

Curriculum Vitae

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EDUCATION

Bachelor of Science (Pharmacy) with Honors, School of Pharmacy, DeMontfort University, Leicester, England, 1977.

Doctor of Philosophy (Pharmacology), School of Pharmacy, De Montfort University, Leicester, England, 1980. Title: “An Investigation of the Mechanism by which Aluminium and Other Polyvalent Cations inhibit Eccrine Sweating”. Advisor: Prof. Basil Northover, Ph.D.

Internships and Residencies

Royal Pharmaceutical Society of Great Britain, Internship for Pharmaceutical License, 1980-1981 (M.R. Pharm. S. awarded in 1981).

Postdoctoral experience

1981-1983 University of Florida, Gainesville, FL College of Pharmacy, Postdoctoral Fellow with Professor Nicholas Bodor (Medicinal Chemistry).

1983-1986 University of Bradford, Bradford, England, Postgraduate School of Studies in Pharmacy, Senior Postdoctoral Fellow with Professor Brian W. Barry (Pharmaceutics and Drug Delivery).

Licensure

Member of the Royal Pharmaceutical Society of Great Britain. License #73637. February 1981-present.

APPOINTMENTS

Ernest Mario School of Pharmacy, Rutgers-The State University of New Jersey, Busch Campus, Professor with Tenure in Pharmaceutics, 7/09-present.

Director & Founder, Center for Dermal Research (CDR), Rutgers-The State University of New Jersey, 2/11-present.

Adjunct Associate Professor, New Jersey Medical School, Rutgers-The State University of New Jersey, Dept. of Pharmacology, Physiology & Neuroscience, Newark, NJ. 9/2005-9/2020.

Ernest Mario School of Pharmacy, Rutgers-The State University of New Jersey, Busch Campus, Associate Professor with Tenure in Pharmaceutics, 7/05-7/09.

University of Medicine and Dentistry of New Jersey-NJ Medical School, Associate Professor, Dept. of Physiology and Pharmacology, Newark, NJ, 9/00-7/05.

College of Pharmacy, University of South Carolina, Columbia, SC, Full Professor with tenure in Dept. of Basic Pharmaceutical Sciences-Pharmaceutics, 9/98-9/00.

College of Pharmacy, University of South Carolina, Columbia, SC, Associate Professor with tenure in Dept. of Basic Pharmaceutical Sciences- Pharmaceutics, 9/93-8/98.

College of Pharmacy, University of South Carolina, Columbia, Assistant Professor in Dept. of Basic Pharmaceutical Sciences-Pharmaceutics (tenure-track), 9/87-8/93.

Director, Industrial Membership Program, New Jersey Center for Biomaterials, Rutgers University, 5/02-2/11.

Engineering Research Center (ERC) for Structured Organic Particulate Systems (SOPS), Member of Leadership Committee, FDA Liaison, Project 2.6 and C5 Leader, 9/06-9/16.

UMDNJ-NJ Medical School, Newark, Dept. of Pharmacology & Physiology, Adjunct Associate Professor, 7/2005-7/2015.

College of Pharmacy, Rutgers-The State University of New Jersey, Busch campus, Adjunct Associate Professor, 9/00-6/05.

The Graduate School, Rutgers-The State University of New Jersey, Newark Campus, Adjunct Associate Professor, 9/00-6/05.

Department of Biomedical Engineering, New Jersey Institute of Technology, Newark, NJ, Adjunct Associate Professor, 9/00-6/05.

College of Engineering and Science, Clemson University, Clemson, SC, Adjunct Professor in Bioengineering, 9/98-9/00.

College of Engineering and Science, Clemson University, Clemson, SC, Adjunct Associate Professor in Bioengineering, 9/93-8/98.

College of Engineering and Science, Clemson University, Clemson, SC. Adjunct Assistant Professor, 5/92-8/93.

Medical University of South Carolina, Charleston, SC, Adjunct Professor at College of Pharmacy, Graduate Faculty Member, 9/98-9/00.

Medical University of South Carolina, Charleston, SC, Adjunct Associate Professor at College of Pharmacy, Member of Graduate Faculty at MUSC, 9/93-9/98.

Medical University of South Carolina, Charleston, SC, Adjunct Assistant Professor at College of Pharmacy, Member of Graduate Faculty at MUSC, 9/88-8/93.

Other Professional Positions and Major Visiting Appointments

College of Pharmacy, University of South Carolina, Columbia SC, Visiting Assistant Professor in Basic Pharmaceutical Sciences, 2/86-9/87.

Graduate Programs at Rutgers University

Member, Graduate Program in Pharmaceutical Science, 2000-present.

Member, Graduate Program in Biomedical Engineering, 2004-present.

Member, Professional Science Master's Program, part of School of Graduate Studies New Brunswick, Rutgers Graduate School, Newark and Rutgers Graduate School Camden, 2019- present.

Member, Graduate Program RWJ Graduate School of Biomedical Sciences, 2006-present.

Member, Graduate Program in Chemical and Biochemical Engineering, 2007- present.

Member, Graduate Program in Chemistry and Chemical Biology, 2014-present.

Member of Collaborative Interdisciplinary Programs at Rutgers

Cancer Institute of New Jersey (CINJ).

NIH T32 Postdoctoral Training in Tissue Engineering and Biomaterials Science (2005-2020).

New Jersey Center for Biomaterials-NJCBM (2000-2020).

RESEARCH INTERESTS AND EXPERIENCE

- Optimization of topical, transdermal and transmucosal drug delivery; development of novel permeation models and computational modeling.
- Design and evaluation of novel dermal penetration enhancers and retardants & their structure-activity relationships.
- Design and testing of novel formulations for topical and transdermal drug delivery including creams, emulsions, gels and micro-and nano-carrier systems.
- Physical approaches to enhancing dermal drug delivery: iontophoresis, microneedles as well as formulation optimization.
- Visualization of drug transport pathways in skin using Raman, Fourier Transform Infra-Red spectroscopy, electron and confocal microscopy.
- Investigation of permeability and formulations for drug delivery into nails.
- Development of novel human tissue cultured skin equivalents for permeability testing.
- Computational approaches to predicting skin transport of drugs.
- Drug delivery into the oral cavity: optimization of oral transmucosal (buccal), transgingival and sublingual drug delivery.
- Pharmacokinetics and ADME studies.
- Biorelevant drug release/dissolution testing of pharmaceutical dosage forms.
- Design & development of topical transdermal drug-containing polymer films.

AWARDS AND HONORS

Michniak –Kohn Awards:

Awarded the prestigious title of **Doctor Honoris Causa D.Sc. (Honorary Doctor of Science Degree)** by the Poznan University of Medical Sciences, Poznan, Poland July 6th 2023.

Elected Fellow of Royal Society of Chemistry (FRSC), October 2023.

Invited as 2021 winner of City of Poznan Public Annual Lecture by Eminent Global Scientist competition. Lecture was entitled “Understanding the Skin to Preserve your Health” at the Polish Library-Congress Center, 37a Przybyszewskiego Street, Poznan, Poland. November 15th, 2021.

Elected to The Kosciuszko Foundation Collegium of Eminent Scientists as a Distinguished Fellow of the Collegium for Outstanding Achievements and Contributions to the Polish Scientific Community, February 2015.

Rutgers University Student Employment Office 2012 Supervisor of the Year Award.

Rutgers University ARESTY Research Center for Undergraduates Faculty Research Mentor of the Year Award, April 2011.

Awarded Fellow of the American Association of Pharmaceutical Scientists (FAAPS), July 2008. Awards ceremony at the AAPS annual meeting, Nov. 16th 2008 in Atlanta, GA.

Awarded the 2007 Meggers Award from the Society for Applied Spectroscopy for paper entitled “Infrared Kinetic/Structural Studies of Barrier Reformation in Intact Stratum Corneum Following Thermal Perturbation” *Applied Spectroscopy*, 2007, 60 (12), 1399-1404. Co-authors: Pensack, Moore and Mendelsohn.

The Controlled Release Society New Jersey Student Chapter Annual Innovated Controlled Delivery Concept Award has been named after Dr. Bozena B. Michniak-Kohn (awarded for first time in 2008).

Awarded New South Wales (Australia) Cancer Institute’s Premier Award for Outstanding Cancer Research Award 2007 for five-year grant submitted by Khachigian, L. *et al.* entitled “Novel Gene-Targeted Therapies for Basal Cell Carcinoma”. Listed as Associate Investigator I on study.

Received Most Cited Paper Award 2005 in European Journal of Pharmaceutics and Biopharmaceutics for Wang, Y., Thakur, R., Fan, Q., Michniak, B. Transdermal iontophoresis: combination strategies to improve transdermal iontophoretic drug delivery, Vol. 60, Issue 2 (2005), 179-191.

Awarded the Lady Davis Fellowship at the Hebrew University, Jerusalem, Israel, 2000-2001.

Recipient of Researcher of the Year Award 1998, College of Pharmacy, University of SC.

The 1981 Best Publication Prize in the Int. J. Cosm. Sci. for the paper "Studies on the mechanism of topical anhidrosis due to polyvalent cations" 3(1), 29-36. First Author: B. Michniak.

Participant in Pharmaceutical Manufacturers’ Association (P.M.A.) Coordinated Industry Program for Pharmacy Faculty (Burroughs Wellcome, Research Triangle Park, NC) August 1989.

Elected for membership of Sigma Xi, The Scientific Research Society (May 1993).

Honorary member of Golden Key Honor Society.

Michniak-Kohn Lab. Member Awards since 2011:

Jailen Doyle, summer undergraduate student won 1st place in Chemistry and Chemical Science category for best poster: Doyle, J., Enekebe, C., Matharoo, N., Michniak-Kohn, B. Development and characterization of diclofenac sodium loaded liposomes. Emerging Researchers National Conference in STEM. Washington DC, February 9-11, 2023.

Jailen Doyle, summer undergraduate student on Best Poster Award plus scholarship for graduate school program for best poster: Doyle, J., Enekebe, C., Matharoo, N., Michniak-Kohn, B. Development and characterization of diclofenac sodium loaded liposomes. HBCU Conference, Eli Lilly, Indianapolis, IN. Feb 23-24, 2023.

Michniak-Kohn Ph.D. student Zhang “Julia” Zhang received the 2019 AAPS Best Poster Award for her contribution entitled “Dermal and transdermal delivery of oxicams using deformable liposomes” at the AAPS PharmSci360 annual conference, November 3-6, 2019 in San Antonio, TX.

Michniak-Kohn Ph.D. student Anika Haq Alam received the Rutgers University Pharmaceutical Research Award in 2019.

Michniak-Kohn Ph.D. student Anika Haq Alam received the AAAS member (American Association for the Advancement of Science), AAAS/Science Program, Excellence in Science Award 2018-2019.

Michniak-Kohn Ph.D. student Rose Soskind received the 2018 AAPS Foundation Graduate Student Fellowship- July 2018.

Michniak-Kohn Ph.D. student Rose Soskind awarded travel scholarship to attend the EBICS Engineering Cellular Systems Summer School (co-organized by MIT, Georgia Tech & UIUC), August 6-10, 2018 at University of Illinois at Urbana-Champaign.

Michniak-Kohn Ph.D. student Rose Soskind awarded participation in the 2018 AAAS/Science Program for Excellence in Science.

Michniak-Kohn Ph.D. student Rose Soskind received a travel award to represent Rutgers-The State University of New Jersey School of Graduate Studies at the Jilin-Rutgers Student Forum held at Jilin University, Changchun, China on June 25-26th, 2018.

Michniak-Kohn Ph.D student Hongmei “Lisa” Lin received the fourth prize in the Poster Competition at the 71st Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.

Michniak-Kohn Pharm.D/Ph.D student Rose Soskind received the third prize in the Poster Competition at the 71st Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.

Michniak-Kohn Pharm.D/Ph.D. student Rose Soskind received the Samuel Bergen, Jr., MD Medal of Excellence Award, May 2017.

Michniak-Kohn Ph.D. student Anika Haq Alam was elected President of the Rutgers University AAPS Student Chapter, 2017.

Michniak-Kohn Ph.D. student Anika Haq Alam received the Teaching Assistant/Graduate Assistant Professional Development Fund Award 2015-2016; The Rutgers Graduate School of Arts & Sciences Fellowship Foundation Award, 2016-2017 and the Rutgers University Pre-dissertation Award, 2016-2017.

Michniak-Kohn Ph.D. student Dina Ameen received the Teaching Assistant/Graduate Assistant Professional Development Fund Award in 2016 and in 2017.

Michniak-Kohn Ph.D. graduate student Dina Ameen received the 2016 AAPS Graduate Student Travel Award. Covered registration and travel to AAPS annual meeting Denver, CO Nov. 14-17, 2016.

Michniak-Kohn Ph.D. graduate student Tannaz Ramezanli received the 2015 IPEC Foundation Graduate Student Scholarship Award. Covered registration and travel to AAPS annual meeting in Orlando, FL, Oct. 25-29, 2015.

Michniak-Kohn Ph.D. graduate student Mania Dorrani received the AAPS & Catalent Applied Drug Delivery Institute's 4th Annual Global Academic Competition for Life Science Leaders of Tomorrow Award, with her review "Topical SiRNA Delivery: Challenges and Prospects" May 28, 2015.

Michniak-Kohn Pharm.D./ Ph.D. student Rose Soskind received an American Foundation for Pharmaceutical Education AFPE Gateway Scholarship for Doctorate Studies, June 2015-2016.

Michniak-Kohn Ph.D. graduate student Mania Dorrani received the American Society of Iranian Pharmaceutical Scientists (ASIPS) Graduate Student Award, November 2015.

Controlled Release Society CRS 2014 Outstanding Student Chapter of the Year Award for the NJ/ NY/PA CRS Student Chapter (I am Faculty Advisor) presented at CRS annual meeting July13-15, 2014 in Chicago.

Michniak-Kohn Ph.D. graduate student Tannaz Ramezanli was awarded the SCC Third Best Poster Award at the 69th Society of Cosmetic Chemists SCC Annual Meeting, Hilton Hotel, New York City, Dec. 11-12, 2014.

Michniak-Kohn Ph.D. graduate student Pei-Chin Tsai was awarded the AAPS Graduate Student Research in Biotechnology Award in 2014. Presented at the AAPS annual meeting in San Diego, CA, November 2-6, 2014.

Michniak-Kohn Ph.D. graduate student Tannaz Ramezanli received the AAPS & Catalent Applied Drug Delivery Institute's 3rd Annual Global Academic Competition for Life Science Leaders of Tomorrow Award, with her review of "Stem Cells as Novel Carriers for Cancer Therapy" June 11, 2014.

Michniak-Kohn Ph.D. graduate student Pei-Chin Tsai was awarded the NYSCC Third Best Poster Award at the NYSCC 2014 Sun Exposure Symposium October 15th 2014, The Pines Manor, Edison NJ.

Michniak-Kohn Ph.D. graduate student, Krizia Karry received award in "Professionals and Post-Docs" Category for the "On-Site Chemometrics Shootout" at the 17th International Diffuse Reflectance Conference (IDRC 2014) held in Chambersburg, PA August 2-8th, 2014.

Michniak-Kohn Ph.D. graduate student Tannaz Ramezanli received the American Society of Iranian Pharmaceutical Scientists (ASIPS) Graduate Student Award, November 2014.

Michniak-Kohn Post Doctoral Fellow, Oluwatoyin “Olu” Adeleke, Ph.D. from the Center for High Performance Computing, Material Science and Manufacturing, Pretoria, South Africa was awarded a Fulbright Fellowship for 2014-2015 to work on the design and development of orodispersible buccal polymer films containing isoniazid and rifampicin.

Michniak-Kohn Post Doctoral Fellow, Oluwatoyin “Olu” Adeleke, Ph.D. from the Center for High Performance Computing, Material Science and Manufacturing, Pretoria, South Africa was awarded the L’Oréal-UNESCO for Women in Science Sub-Saharan Africa Fellowship, November 26, 2014.

Rutgers University Aresty Best Poster Presentation Award 2011 awarded to Michael Chiou from Michniak-Kohn group for “Permeation of nicotine across Polyderm human skin equivalent”. The poster was presented at the annual Rutgers University 7th Aresty Undergraduate Research Symposium April 29th 2011.

Controlled Release Society CRS 2011 Outstanding Student Chapter of the Year Award for the NJ CRS Student Chapter ((I am Faculty Advisor) presented at CRS annual meeting in National Harbor, Maryland.

OTHER TRAINING

Completed Communicator Certificate Program at Rutgers, The State University of New Jersey, University of Human Resources, December 2020.

Leadership Program for Senior Women in Engineering and Science: CHANGING THE FUTURE FOR WOMEN IN SCIENCE AND ENGINEERING, funded by the New Brunswick Strategic Plan Initiative for 2015-16.

OASIS Training in Mentoring sponsored by the Office of Promotion of Women in Science, Engineering and Mathematics (WiSEM), Rutgers University, Spring 2009.

MEMBERSHIP ON BOARDS

Member of Scientific Advisory Board of CFD Research Corporation, Huntsville AL. Appointed Fall 2023.

Member of the Board of the International Pharmaceutical Excipients Council of the Americas Foundation (IPEC Americas). Appointed January 2016.

Senior Advisor to ISHA Therapeutics, NJ http://ishatherapeutics.com/Bozena_Michniak.html in Dermal Drug Development. Appointed Dec. 2022.

Editorial Board Member for the “Pharmaceutics” journal <http://www.mdpi.com/journal/pharmaceutics>. ISSN 1999-4923, peer-reviewed, open access journal on science & technology of pharmaceutics & biopharmaceutics, indexed by SCIE, PubMed & Scopus. Appointed June 2019.

Member of the Scientific Advisory Board of “Polymers in Medicine” -journal in the field of medicine and pharmaceutical sciences. Indexed in PubMed and journal dates back to 1971 <https://www.polimery.umed.wroc.pl/en/home/>. Appointed in February 2021.

Member of the Scientific Advisory Board of Neolastin <https://www.neolastin.com>. This is a luxury skin formulations company based on the use of elastin for skincare. Appointed in June 2021.

Member of Board of Trustees for the Textile Research Institute, TRI Princeton, NJ. Elected August 2015.

Chair of the Nominations to the Board of Trustees Committee, Board of Trustees for the Textile Research Institute, TRI Princeton, NJ. Elected May 2018.

Member of the Scientific Advisory Board of the Westchester Biotechnology project. Appointed April 2018. Link <http://westchesterbiotechproject.org>.

Member of Steering Committee of the Consortium on Translational Research on the Microbiome- Westchester Biotechnology Project. Appointed April 2018. Link <http://westchesterbiotechproject.org>.

Editorial Board member for the journal “Farmacja Współczesna” (“Modern Pharmacy”).
<https://www.akademiamedycyny.pl/en/home-3-3/farmacja-wspolczesna/>. Appointed October, 2023.

Editorial Board Member for the “Clinical Dermatology Research Journal”, SciTechnol at <http://www.scitechnol.com>. Peer-reviewed journal in all areas of Dermatology. Appointed 2018.

Honorary Editorial Board Member of the journal “Research and Reports in Transdermal Drug Delivery”- Dove Medical Press, Ltd., New Zealand. Appointed in Spring 2015.

Editorial Board Member for the “Journal of Drug Research and Development”, Sciforshen, CA USA. Appointed October 2014.

Guest Editor of Special Issue of Pharmaceutics Journal "Advanced Transdermal Drug Delivery" (ISSN 1999-4923; CODEN: PHARK5) March 2013.

Editorial Member of the Journal of Outlook on Emerging Drugs from SciTechnol, International Publisher of Science, Technology and Medicine, Henderson, NV (an OMICS Group Initiative) -appointed May 2012.

Member of Working Group to revise the ASTM Standard Guide for Classification of Therapeutic Skin Substitutes (Designation F2311-08) appointed August 2012.

Member of Advisory Board, Office for the Promotion of Women in Science, Engineering and Mathematics, Rutgers University, 2015-2020.

Founding Member and Honorary Editorial Board Member of the open access journal “Research and Reports in Transdermal Drug Delivery”- <http://www.dovepress.com>- invited November 2011.

Guest Editor of Special issue of Pharmaceutics Journal (ISSN 199-4923; <http://www.mdpi.com/journal/pharmaceutics>) “Transdermal Drug Delivery” appointed February 2011.

Editorial Board for Journal of Pharmaceutics & Drug Delivery JPDDR- Omics Publishing Group- Open Access- appointed May 2011.

Editorial Board for Journal of Drug Delivery (Hindawi Publishing Company) - appointed 2010.

Editorial Board for The Open Nanomedicine Journal (Bentham Science Publishers, Ltd.), 2008 to 2014.

Editorial Board of “The Open Nanotechnology and Nanomedicine Journal” (Bentham Science Publishers), 2014 to present.

Editorial Advisory Board for “Recent Patents on Drug Delivery and Formulation” (Bentham Science Publishers, Ltd.), 2009-present.

Editorial Advisory Board for “Transdermal” Journal, CSC Publishing Inc., Saint Paul, MN, 2009-2011.

Editor of Special Issue on “Skin Nanotechnology” for the Journal of Biomedical Nanotechnology (2009-2010).

Co-Editor of Controlled Release Society Newsletter, 2002- 2019.

Member of Scientific Advisory Board of the International Pharmaceutical Excipients Council of the Americas Foundation (IPEC), June 2007- November 2015.

Member of Advisory Board for “Drug Delivery” annual review journal, 2009-to present.

Member of Scientific Advisory Board for Applied Research & Photonics, Inc., 470 Friendship Road, Ste. 10, Harrisburg, PA 17111 (2011-present).

Member of Scientific Advisory Board for Polytherapeutics Inc., Bridgewater, NJ (2010-2018).

Member of the Scientific Advisory Board for Encapsulation Systems, Inc., Broomall, PA, 2007-2012.

Member of Advisory Board, Office for the Promotion of Women in Science, Engineering and Mathematics, Rutgers University, 2006- 2012.

Honorary Editorial Board of the American Journal of Drug Delivery-Adis Press, 2003-2005.

Consulting Editor, the American Journal of Drug Delivery-Adis Press, 2005-2007.

TEACHING EXPERIENCE

Introduction to Pharmaceutics 30:721:301 and accompanying Pharmaceutical Compounding Laboratory Course. 3 Credit Course. Fall 2015 (210 students), Fall 2016 (210 students), Fall 2017 (220 students), Fall 2018 (215 students), Fall 2019 (198 students), Fall 2020 (210 students), Fall 2021, Fall 2022 (212 students) and Fall 2023. Teaching 3 x 80 minute lectures on diffusion and dissolution, radioactive decay and linear regression calculations and rheological principles.

Drug Delivery 30: 721:320 and accompanying Pharmaceutical Compounding Laboratory Course. 4 credit course. Spring 2014 (219 students), Spring 2015 (215 students), Spring 2016 (214 students) & Course Coordinator, Spring 2017 (215 students), Spring 2018 (220 students) & Course Coordinator, Spring 2019 (205 students), Spring 2020 & Course Coordinator (193 students), Spring 2022 & Course Coordinator (212 students), Spring 2023 (210 students) and Spring 2024 & Course Coordinator. Teaching 5 x 80 minute lectures on mucosal, buccal, nasal, uterine, rectal, vaginal drug delivery, biomaterials and drug delivery, transdermal and topical drug delivery I-III and liposomal/drug carrier drug delivery.

Dermaceutics 16:720:523 and 16: 137:603 (cross-listing with Professional Science Masters' Program), 3 Credit Graduate Level course. Course Coordinator Spring 2024, Spring 2021 (89 students-all remote), Spring 2015 (53 students with 9 remote dial-in students from Ohio and University of Maryland); Spring 2018 (41 students with 8 remote dial ins from companies and remote sites); Spring 2012 (31 students); Spring 2024. This course covers the physiology & biochemistry of skin, skin diseases, principles of percutaneous absorption, skin diffusion & metabolism, in vitro and in vivo animal testing, human clinical testing, imaging and instrumental methods. Ten three hour lectures.

Pharmacy Seminar 16:720:602. 1 credit course. Course Coordinator for Fall 2013, Spring 2017, Fall 2020 and Spring 2024. Graduate course with weekly seminars by graduate students and visiting seminar speakers.

Drug Delivery 30: 721:320 and accompanying Pharmaceutical Compounding Laboratory Course. 4 credit course. Spring 2013 (211 students). Teaching 5 x 80 minute lectures on mucosal, buccal, nasal, uterine, rectal, vaginal drug delivery, biomaterials and drug delivery, transdermal and topical drug delivery I-III and liposomal/drug carrier drug delivery.

Introduction to Pharmaceutics 30:721:301 and accompanying Pharmaceutical Compounding Laboratory Course. 3 Credit Course. Fall 2012 (212 students), Fall 2013 (219 students) and Fall 2014. 3 x 80 minute lectures on diffusion and dissolution, radioactive decay and linear regression calculations and rheological principles.

Pharmaceutical Organic Nanotechnology 16:155:544 in CBE and 125:590: Drug Delivery Fundamentals and Applications in BME. 3 Credit Graduate Course. Spring 2013 (28 students). This course covers the basics as well as the most novel approaches to nanotechnology, nanocarriers and drug delivery. One 80 min. lecture.

Drug Delivery 30: 721:320 and accompanying Pharmaceutical Compounding Laboratory Course. 4 credit course. Spring 2011 (238 students) & Course Coordinator Spring 2012 (205 students). Teaching 5 x 80 minute lectures on mucosal, buccal, nasal, uterine, rectal, vaginal drug delivery, biomaterials and drug delivery, transdermal and topical drug delivery I-III and liposomal/drug carrier drug delivery.

Pharmaceutical Organic Nanotechnology 16: 155:544. 3 Credit Graduate Course. Course Co-Coordinator Spring 2011 (25 students). This course covers the basics as well as the most novel approaches to nanotechnology, nanocarriers and drug delivery. One three hour lecture.

Introduction to Pharmaceutics 30:721:301. 3 Credit Course. Fall 2010 (238 students), Fall 2011 & Fall 2012. 3 x 80 minute lectures on diffusion and dissolution, radioactive decay and linear regression calculations and rheological principles.

Advanced Pharmaceutics I 16:720:570:01. 3 credit course. Fall 2010 (8 students). Graduate Course at Ernest Mario School of Pharmacy, Rutgers- The State University of New Jersey. Six one hour periods. Lectures on States of Matter, Thermodynamics and Ionic Equilibria.

Pharmacy Seminar 16:720:602. 1 credit course. Course Coordinator for Fall 2010. Graduate course with weekly seminars by graduate students and visiting seminar speakers.

Drug Delivery 30: 721:320 and accompanying Pharmaceutical Compounding Laboratory Course. 4 credit course. Course Coordinator Spring 2010 (209 students). Teaching 9 x 80 minute lectures on

mucosal, buccal, nasal, uterine, rectal, vaginal drug delivery, biomaterials and drug delivery, transdermal and topical drug delivery I-III and liposomal/drug carrier drug delivery.

Pharmaceutical Compounding Laboratory Course. 1 credit course as part of Drug Delivery II 30:721:420. Fall 2009 (210 students). Coordinator for the lab. course with four graduate student Teaching Assistants.

Introduction to Pharmaceutics 30:721:301. 3 Credit Course. Fall 2009 (219 students). 3 x 80 minute lectures on diffusion and dissolution, radioactive decay and linear regression calculations and rheological principles.

Pharmaceutical Organic Nanotechnology 16: 155:544. 3 Credit Graduate Course. Course Co-Coordinator Spring 2009 (25 students). This course covers the basics as well as the most novel approaches to nanotechnology, nanocarriers and drug delivery. One three hour lecture.

Dermaceutics 16:720:523. 3 Credit Graduate Level course. Course Coordinator Fall 2008 (15 students). This course covers the physiology & biochemistry of skin, skin diseases, principles of percutaneous absorption, skin diffusion & metabolism, in vitro and in vivo animal testing, human clinical testing, imaging and instrumental methods. Eight three hour lectures.

Drug Delivery I 30: 721:320 and accompanying Pharmaceutical Compounding Laboratory Course. 3 credit course. Course Coordinator Spring 2008 (216 students) and Spring 2009 (210 students). Teaching 18 x 90 minute lectures in course on ADME, Suspensions & Emulsions, Buccal, Topical & Transdermal Drug Delivery, Liposomes and other Drug Carriers, Rheology and Radiopharmaceuticals including three exams.

Introduction to Pharmaceutics 30:721:301. 3 Credit Course. COURSE COORDINATOR for undergraduate Pharm.D. course at Ernest Mario School of Pharmacy, Rutgers- The State University of New Jersey, Fall 2002, and 2003 five 80 minute lectures on Interfacial Phenomena, Rheology, Dispersed Systems, and Coarse Dispersions. Fall 2002 (180 students), 2003 (221 students), 2004 (292 students), 2005 (221 students), 2006 (160 students) and 2007 (215 students): Introduction and Calculations, States of Matter, Chemical Stability and Kinetics, 8 lectures & 2 exams/reviews. Includes five laboratory sections of a Laboratory Course where Calculations segment materials (30%) are provided by Dr. Michniak-Kohn.

Pharmacy Seminar 16:720:602. 1 credit course. Course Coordinator for Spring 2007 (10 students). Graduate course with weekly seminars by graduate students and visiting seminar speakers.

Advanced Pharmaceutics I 16:720:570:01. 3 credit course. Graduate Course at Ernest Mario School of Pharmacy, Rutgers- The State University of New Jersey, Fall 2002 (32 students), 2004 (27 students), and 2006 (13 students); 2008; six one hour periods. States of Matter, Thermodynamics and Ionic Equilibria.

Advanced Pharmaceutics II 16:720:509:01. 3 credit course. Graduate Course at Ernest Mario School of Pharmacy, Rutgers- The State University of New Jersey, Fall 2003 (24 students), 2005 ((14 students), 2007 (16 students), nine hours total of lectures. Rheology and rheological flow behavior, Polymer science and polymers in drug delivery applications, Liposomes and pharmaceutical drug carriers, Principles of drug dissolution.

Nanotechnology Based Drug Delivery 16:720:550. 3 Credit Course, Fall 2006 (50 students). Graduate Course at Ernest Mario School of Pharmacy in conjunction with Engineering IGERT Program at Rutgers. One three hour lecture on Materials for Nanoparticle Drug Delivery Systems.

Drug Delivery I and II 30:721:320 and 30:721:420. 3 Credit Course Courses. Undergraduate course at Ernest Mario School of Pharmacy, Rutgers- The State University of New Jersey, four 80 minute lectures on Skin: Structure and Function; Topical and Transdermal Dosage Forms; Diffusion through Membranes; Liposomes; Buccal Delivery. Enrollment for Fall 2003 Drug Delivery II was 135 students. Enrollment for Fall 2002 Drug Delivery II was 126. Drug Delivery I Spring 2002 enrollment was 202 students. Spring 2001 Drug Delivery I had 187 students and Spring 2001 Drug Delivery II had 161 students enrolled.

Drug Delivery I 30:721:320. Spring 2004. 3 Credit Course. Three 80 minute lectures on Diffusion in Membranes, Topicals, Skin Physiology: Structure and Function.

Controlled Drug Delivery 16:720:522. Graduate course at the Ernest Mario School of Pharmacy, Rutgers- The State University of New Jersey, **Spring 2002**, two three hour lectures on skin structure, transdermal dosage form design, enhancement of skin permeability and development of formulations.

Molecular and Cellular Pharmaceutics 16:720:608. Graduate course at the Ernest Mario School of Pharmacy, Rutgers-The State University of New Jersey, **Fall 2000**, three hour lecture on transdermal drug delivery. Enrollment was 18 students.

PHRM 416 (3 credits) Pharmaceutics II. Quantitative and theoretical aspects of drug dosage design and evaluation. University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 100% of the course.

PHRM 517 (2 credits) Pharmaceutics III. Quantitative and theoretical aspects of specialized drug systems including incompatibilities, stability, and applied biotechnology. University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 100% of the course.

PHRM 628, 629, (1-4 credits) Problems in Pharmaceutics I and II. Conferences, assignments and/or laboratories. Contract approved by instructor, advisor, and department head is required for undergraduate students. University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 100% of course.

PHRM 527 (1-6 credits) Problems in Pharmacy I. Conferences, assignments and/or laboratories. Contract approved by instructor, advisor, and department head is required for undergraduate students. University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 100% of the course.

PHRM 528 (1-6 credits) Problems in Pharmacy II. Conferences, assignments and laboratory. Elective course. Contract approved by instructor, advisor, and department head is required for undergraduate students. University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 100% of the course.

PHAR 701 (3 credits) Dermatological Pharmaceutics. A study of the formulation, development, manufacture, and control procedures of drug products used as dermatologicals. The course will include: anatomy and physiology of the skin; emollient, cleansing, antiseptic, hormone, photo-protective, photosensitizing, and hypoallergenic ointments, creams, lotions, and sprays; manufacture of selected members of the above group; quality control tests of the manufactured products. Graduate Course, University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 100% of the course.

PHAR 725 (2 credits) Advanced Pharmaceutics I. Physical, chemical, and kinetic concepts which apply to the design and evaluation of pharmaceutical systems. Graduate Course, University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 50% of the course.

PHAR 726 (3 credits) Advanced Pharmaceutics II. Application of chemical and physical concepts of the design and evaluation of pharmaceutical systems (dosage forms). Graduate Course, University of South Carolina, College of Pharmacy, 1988-2000. Organized and taught 50% of the course.

STAFF MEMBERS of Center for Dermal Research (CDR) & Laboratory for Drug Delivery (LDD)

Karen Mooney Executive Assistant for Center for Dermal Research CDR & Laboratory for Drug Delivery (LDD), October 2019-present.

Hana Mohd Laboratory for Drug Delivery (LDD) Manager & Safety Officer, May 2023- present.

Namrata Matharoo Laboratory for Drug Delivery (LDD) Manager & Safety Officer, January 2022-May 2023.

Keyaara Robinson Laboratory for Drug Delivery (LDD) Manager & Safety Officer, September 2020-January 2022.

Julia Zhang Formulation Scientist (LDD), January 2019-July 2022.

Sesha Rajeswari (Raje) Talluri MS part time technician at the Laboratory for Drug Delivery, May 2022-Dec. 2022.

Vinam Puri Laboratory for Drug Delivery (LDD) Manager & Safety Officer, October 2018-September 2020.

Jemima Shultz, Ph.D. Industrial Projects Scientist (LDD), July 2019- March 2020.

Namrata Matharoo Skin Formulation Scientist (LDD), November 2019-September 2020.

Hannah Carter Event Coordinator for Center for Dermal Research CDR, August 2018-April 2020.

Jagruti Rana, Ph.D. part-time LDD Visiting Scientist, July 2019- December 2019.

Sonia Trehan, Ph.D. Research Assistant Professor & General Manager of Industrial Projects in LDD from April 2015- October 2018.

Hariklia “Louli” Kourkounakis Executive Assistant/Program Coordinator for Center for Dermal Research CDR & LDD, Sept. 2013- May 2018.

RESEARCH TRAINING

1. Research Professors & Postdoctoral Fellows (since 2000):

Seepa Rath, Ph.D. Postdoctoral Associate, March 2024-present. Worked on various aspects of topical semisolid formulations, compounding of gels and creams, examination of microstructure, rheology and excipient substitution, in vitro release testing (IVRT) and in vitro skin permeation testing (IVPT).

Sonia Trehan, Ph.D., Assistant Research Professor and General Manager of Industrial Projects for LDD, November 2017- October 2018. Worked on various skin research topics with dermatologicals both transdermal and topical.

Zheng Zhang, Ph.D., Research Assistant Professor, Jan. 2010-Dec. 2015. Worked on nanosphere delivery to skin to treat psoriasis and on the treatment of melanoma as well as acne.

Tarek Awad, Ph.D., Postdoctoral Fellow in Chemical Engineering, 2013-2014. Worked on biorelevancy and drug dissolution of edible polymer films and other orally administered dosage forms.

Agnieszka Nawara-Hultsch, Ph.D. Postdoctoral Fellow, Fall 2013 & Spring 2014. Worked on delivery of novel centrally acting (CNS) drugs using the transdermal route of administration.

Tom Morrow, Ph.D. NIH T32 Postdoctoral Fellow, 2010-2012. Worked on polymeric nanospheres to deliver drugs such as curcumin, paclitaxel, betamethasone and Vitamin D3 to skin for psoriasis, wound healing and other skin diseases.

Larisa Sheihet, Ph.D. Research Assistant/Associate Professor, 2006-2011. Worked on nanosphere delivery to skin to treat psoriasis.

Jayeeta Ghosh, Ph.D. NIH T32 Postdoctoral Fellow, 2009-2010. Worked on modeling of skin membranes and effects of enhancers and retardants on stratum corneum lipid mobility.

Ferez Nallaseth, Ph.D., Visiting Research Associate Professor, 2006-2013. Worked on stem cell research /gene and protein mapping in human skin equivalents.

Victor Meidan, Ph.D. Postdoctoral Fellow (Ph.D. 1996, University of Aston, Birmingham, U.K.). Expertise: pharmaceuticals and drug delivery, liposomes, tissue culture. Iontophoretic delivery of drugs. Sept. 2002- 2003.

Jianjun Luo, Ph.D. Postdoctoral Fellow in Chemical Engineering. Supercritical fluid processing technology and the production of nano-and microspheres for drug delivery applications. Sept. 2002-2004.

Prafulla Chandra, Ph.D. Postdoctoral Fellow in Chemistry. Electrospinning, characterization and validation of poly(DTE) carbonate polymer scaffolds for a tissue engineered human skin model. Jan 2006-Oct. 2009. 25% effort in Michniak-Kohn Laboratory.

Kalyana Pingali, Ph.D. Postdoctoral Fellow in Chemical Engineering. Influence of pharmaceutical processing parameters on product performance and dissolution. 50% effort in Michniak-Kohn laboratory (2006-2010).

2. Doctoral & Masters Students since 1995 (Total of 66 with 53 Ph.D. and 13 Masters):

1. Laverne Clifton “Cliff” Fuhrman (Pharmacy-Pharmaceutics) In vitro evaluation of chemical and liposomal drug delivery systems for the enhancement of percutaneous absorption. University of South Carolina, 1995.
2. Christine A. Philips (Pharmacy-Pharmaceutics) Efficacy and potential toxicity of novel dermal penetration enhancers. University of South Carolina, 1995.
3. Donald Allen Godwin (Pharmacy-Pharmaceutics) Evaluation of transdermal penetration enhancers using animal skin and a novel skin alternative. University of South Carolina, 1996.

4. Ronald Terence Stroman (Pharmacy-Pharmaceutics) I. Oxidative stress and its influence on ischemic processes and serum L-citrulline levels in novel animal models: Effects of hyperbaric oxygen exposure. II. The effects of alpha-1-acid glycoprotein on lidocaine pharmacokinetics in transgenic mice. University of South Carolina, 1991.
5. Terrance William Ocheltree (Pharmacy-Pharmaceutics) Epidermal and dermal delivery of antisense oligonucleotides using liposomes and lipid complexes. University of South Carolina, 1997.
6. Ellen Jett Milleman (Pharmacy-Medicinal Chemistry) The effect of increased steric bulk and exocyclic amidation on the transdermal penetration enhancement activity of Azone: Synthesis, in vitro testing, and molecular modeling. University of South Carolina, 1997.
7. Robert Michael Sears (Pharmacy-Medicinal Chemistry) Novel carbamic acid ester, ureido, and amide analogues of 3-aminohexahydro-2H-azepine-2-one: Synthesis and effects on in vitro transdermal delivery of hydrocortisone. University of South Carolina, 1997. ([Masters](#))
8. Timothy Kyle Fincher (Pharmacy-Pharmaceutics) The effect of skin penetration enhancers on the permeation of dideoxynucleoside anti-HIV drugs in vitro and in vivo. University of South Carolina, 1998.
9. David Arnold Shirley (Pharmacy-Pharmaceutics) Synthesis and enhancement activity of novel N-substituted cycloheptylmethylamines on in vitro transdermal delivery of hydrocortisone and Temperature and hyperbaric effects on release profiles of fentanyl from Duragesic transdermal delivery systems. University of South Carolina, 1998. ([Masters](#))
10. Vaishali Sunil Khushlani (Pharmacy-Pharmaceutics) Effect of formulation factors on release of antisense oligonucleotide from topical formulation for psoriasis. University of South Carolina, 1999. ([Masters](#))
11. Ayman El-Kattan (Pharmacy-Pharmaceutics) Optimization and characterization of drug percutaneous permeation. The University of South Carolina, 2000.
12. Charles Scott Asbill (Pharmacy-Pharmaceutics) Topical delivery of a novel antisense oligonucleotide and validation of a bioengineered skin model. University of South Carolina, 2000.
13. Nanyhe Kim (Pharmacy-Pharmaceutics) Evaluation of novel dermal penetration enhancers: Efficacy, structure activity relationships and mechanisms of action. University of South Carolina, 2000.
14. Mohammad El-Khalili (Pharmacy-Pharmaceutics) Enhancement of drug permeability in different skin models using physical and chemical techniques. University of South Carolina, 2002.
15. Yifan Song (Pharmacology & Physiology UMDNJ) Investigation of percutaneous penetration: Skin barrier function and its modulation. University of Medicine and Dentistry of New Jersey, 2004.
16. Yiping Wang (Pharmacy-Pharmaceutics) Transdermal delivery of tricyclic antidepressants using iontophoresis and chemical enhancers. Rutgers-The State University of New Jersey, 2004.
17. Alison Nickol Weltner (NJIT) Mathematical modeling of transient state transdermal drug delivery, New Jersey Institute of Technology, 2004. ([Masters](#))
18. Quixi Fan (NJIT) In vitro drug delivery based on a porous membrane-based aqueous-organic partitioning system and its enhancements through mouse skin. New Jersey Institute of Technology, 2005.
19. Rebecca Cook (Pharmacy-Pharmaceutics) Influence of alcohol on drug release from solid oral extended-release formulations. Rutgers-The State University of New Jersey, 2006. ([Masters](#))
20. Rashmi Thakur (Pharmacy-Pharmaceutics) Polymer coated microfabricated needles for transdermal delivery of hydrophilic and lipophilic drugs. Rutgers-The State University of New Jersey, 2008.

21. Priya Batheja (Pharmacy-Pharmaceutics) Polymeric nanospheres for skin penetration enhancement: In vitro and in vivo assessment in skin models. Rutgers-The State University of New Jersey, 2010.
22. Diksha Kaushik (Pharmacy-Pharmaceutics) Investigation of novel penetration modifiers as enhancers and retardants & Human pharmacokinetics and pharmacodynamics of orally administered quercetin. Rutgers-The State University of New Jersey, 2010.
23. Lawrence Hu (Pharmacy-Pharmaceutics) Transdermal and transbuccal drug delivery: Enhancement using iontophoresis and chemical enhancers. Rutgers-The State University of New Jersey, 2010.
24. Brian Kilfoyle (Pharmacy-Pharmaceutics) Tyrosine-derived nanoparticles for the topical treatment of psoriasis. Rutgers-The State University of New Jersey, 2011.
25. Vishwas Rai (Pharmacy-Pharmaceutics) Drug permeability in tissue engineered models and cytotoxicity evaluations. Rutgers-The State University of New Jersey, 2011.
26. Sergio Manual Campos da Silva (Portugal) Strategies to improve transdermal drug delivery: Hydrogel vehicles, permeation enhancers and iontophoresis. University of Coimbra, Portugal, 2013 Co-advisor (Portugal)
27. Sonali Bose (Pharmacy-Pharmaceutics) Development and characterization of lipid based nanosystems of quercetin for topical delivery. Rutgers-The State University of New Jersey, 2012.
28. Peter Ji Zhang (Pharmacy-Pharmaceutics) Investigation of microemulsions and their microstructures for transdermal and dermal drug delivery. Rutgers-The State University of New Jersey, 2017.
29. Indrajit Ghosh (Pharmacy-Pharmaceutics) Design and evaluation of supersaturated and submicron topical formulations of a poorly water-soluble drug for enhancing skin permeability- A case study with ibuprofen. Rutgers-The State University of New Jersey, 2012.
30. Jenna Leschek-Terebetski (Pharmacy-Pharmaceutics) Influence of polymers on supersaturation of ibuprofen sodium in vitro and in vivo: A mechanistic evaluation. Rutgers-The State University of New Jersey, 2014.
31. Marlena Brown (Rutgers-Food Science) The feasibility of the utilization of drop-on-demand technology in the fabrication of flexible dosing, polypharmacy, and novel multi-drug design dosage forms. Rutgers-The State University of New Jersey, 2014. Co-advisor.
32. Serom Lee (Rutgers-Biomedical Engineering) Classification Models for Identifying Skin Sensitizers using In Vitro Alternatives to Animal Testing. Rutgers-The State University of New Jersey, 2014. Co-advisor.
33. Pei-Chin Tsai (Pharmacy-Pharmaceutics) Development of three-dimensional human skin equivalents based on decellularized extracellular matrices and tyrosine-derived polycarbonate polymers for in vitro drug screening applications. Rutgers-The State University of New Jersey, 2016. Deceased.
34. Tannaz Ramezanli (Pharmacy-Pharmaceutics) Tyrosine-derived polymeric nanocarriers: An innovative approach for topical drug delivery in acne therapy. Rutgers-The State University of New Jersey, 2016. At FDA Topical and Transdermal Drugs, CDER, Office of Generic Drugs.
35. Krizia Marie Karry-Rivera (Rutgers-Chemical Engineering) Flexible continuous manufacturing platforms for solid dispersion formulations Rutgers-The State University of New Jersey, 2015.
36. Daniel Braido (Rutgers-Chemical Engineering) Characterization and modeling the dissolution performance of tablets focusing on powder processing effects. Rutgers-The State University of New Jersey, 2012. Co-advisor.
37. Nitprapa Siriwanakij (Masters in Pharmaceutical Engineering-Chemical Engineering) Validation of a novel polymeric membrane Strat-M as a replacement for skin tissue for drug permeability testing, 2012 ([Masters](#))

38. Wanze Li (Masters in Pharmaceutical Engineering-Chemical Engineering) In vitro-in vivo correlations of drug release in oral dosage forms using USP dissolution and the TIM-1 gastrointestinal system, 2012 ([Masters](#))
39. Mania Dorrani (Pharmacy-Pharmaceutics) Overcoming challenges for skin deposition of drugs: SiRNA and antimicrobial agents. Rutgers-The State University of New Jersey, 2016.
40. Siddhartha Vattikuti (Masters in Pharmaceutical Engineering-Chemical Engineering) Transdermal delivery of omeprazole, 2015 ([Masters](#))
41. Dina Ameen Wadie (Pharmacy-Pharmaceutics). Joined group Fall 2013. The transdermal route as an alternative: The delivery of drugs for neurodegenerative diseases. Rutgers-The State University of New Jersey, defended Ph.D. Thesis June 1st, 2020.
42. Francisco Gavalian (Pontificia Universidad Catolica de Chile, Santiago, Chile) Study of the interaction between plasticizers and film forming polymers of edible polymer films by correlation of spectroscopy and mechanical properties, 2015. Co-Advisor.
43. Nathaly Cristine Martos Gibaile (Pharmacy-Pharmaceutics) Effect of insecticide diethyltoluamide (DEET) and co-applied sunscreens on percutaneous absorption. Rutgers-The State University of New Jersey, 2016. ([Masters](#)).
44. Phunsuk Anantaworasakul (Pharmacy-Pharmaceutics) Chili extract delivery system for minimizing skin irritation. Chiang Mai University, Chiang Mai, Thailand. June 17, 2019. Co-Advisor and thesis Committee member. Defended Ph.D. Thesis 2019.
45. Panikchar Wichayapreechar (Pharmacy-Pharmaceutics) Modulation of NF-KappaB and SIRT-1 protein expression in psoriatic cell model by anti-inflammatory herbal extract-encapsulated nanoparticles. Chiang Mai University, Chiang Mai, Thailand. June 17, 2019. Co-Advisor and thesis Committee member. Defended Ph.D. Thesis 2019.
46. Amitkumar Virani (Pharmacy-Pharmaceutics) part-time Ph.D Spring 2015- Fall 2023. The transdermal route as an alternative for the delivery of drugs for epilepsy and psychotic disorders. Rutgers-The State University of New Jersey, defended Ph.D. Thesis September 11th, 2023.
47. Benjamin Goodyear (Pharmacy-Pharmaceutics). Joined group Fall 2015. Formulation development and process optimization of ibuprofen-loaded nanocapsules for topical delivery. Rutgers-The State University of New Jersey, defended Ph.D. Thesis September 8th, 2021.
48. Parin Shah (Pharmacy-Pharmaceutics) Joined group Fall 2015. Development & evaluation of desoximetasone loaded niosomes for topical drug delivery using Quality by Design (QbD) approach. Rutgers-The State University of New Jersey, defended Ph.D. Thesis September 3rd, 2020.
49. Anika Haq Alam (Pharmacy-Pharmaceutics). Joined group Spring 2016. Application of Solubility-Physicochemical-Thermodynamic (SPT) theory for designing a topically applied thymoquinone polymer film to treat infected wounds. Rutgers-The State University of New Jersey, defended Ph.D. Thesis March 23rd, 2020.
50. Rose Soskind (Pharmacy-Pharmaceutics) Pharm.D./Ph.D. Program- Left Rutgers University for medical reasons with [Masters Non-thesis](#) in May 2019. Worked on Tyrospheres (nanospheres) and delivery of vitamins and other actives to the skin layers.
51. Maphalle Lehlogonolo (Pharmacy/Pharmaceutical Sciences) [Masters \(MPharm\)](#) Sefakho Makgatho Health Sciences University, Nigeria. Working on novel drug carrier systems for drug delivery. Began work Sept 2019. Co-Supervisor with Dr. Oluwatoyin A. Adeleke.
52. Vinam Puri (Pharmacy-Pharmaceutics). Joined group Fall 2016. Design and development of topical formulations for ungual drug delivery of antifungal moieties. Rutgers-The State University of New Jersey, defended Ph.D. Thesis September 30th, 2021.
53. Zhang "Julia" Zhang (Pharmacy-Pharmaceutics). Joined group Spring 2016. Dermal and transdermal delivery of oxycams using deformable liposomes. Rutgers-The State University of New Jersey, defended Ph.D. Thesis October 30th, 2020.

54. Robert Falcone (Pharmacy/Pharmaceutical Sciences) Ph.D. student part time at University of Herefordshire, United Kingdom. Title of thesis "Use of consumer outcomes to support label claims". Began work July 2020.
55. Keyaara Robinson (Pharmacy-Pharmaceutics). Lipid-polymer hybrid nanoparticles: overview, case studies and potential use. Rutgers-The State University of New Jersey, Spring 2023. (Masters).
56. Nirali Dhoralia (Pharmacy-Pharmaceutics)- current. Began work Fall 2019.
57. Namrata Matharoo (Pharmacy-Pharmaceutics)- current. Began work Fall 2020.
58. Hana Mahmoud (Pharmacy-Pharmaceutics)- current. Began work Fall 2020.
59. Anna Shternin (Pharmacy-Pharmaceutics)- current. Began work Spring 2021.
60. Amgad Saleh (Pharmacy-Pharmaceutics)- current. Began work Fall 2021.
61. Nubul Albayati (Pharmacy-Pharmaceutics)- current. Began work Spring 2022.
62. Vanessa Castro (Chemistry and Chemical Biology)- current. Began work Fall 2022. (Masters/PhD).
63. Rajeswari (Raje) Talluri (Pharmacy-Pharmaceutics)- current. Began work Spring 2023.
64. Khadija Abdulhafid (Pharmacy-Pharmaceutics)- current. Began work Fall 2023.
65. Mittal Bhadiyadra (Pharmacy-Pharmaceutics)- current. Began work Fall 2023.
66. Oliwia Kordyl (Poznan University of Medical Sciences PUMS, Poznan, Poland) Co-Advisor with Prof. Tomasz Osmalek -current. 3D printed microneedles for delivery of voriconazole in the treatment of local skin infections. Began work in 2023.

3. Rotation Graduate Students as Major Advisor (since 2000):

Jing Cao (UMDNJ-NJ Medical School) Effect of IL-7 and TGF- β on skin fibroblasts growth and collagen production in vitro. Summer 2002-Fall 2003. Continued graduate studies at the University of Minnesota.

Vickie Cotero (UMDNJ-NJ Medical School). Iontophoresis and chemical enhancement: mechanisms and effects on model agents. Fall 2003-Summer 2004.

Kathy Trzaska (UMDNJ-NJMS Biomedical Engineering Program) Summer 2004.

Renea Faulknor (Rutgers- BME Ph.D. candidate) Rotation program Spring 2011.

Paulina Krzyszczyk (Rutgers-BME Ph.D. candidate) Rotation program Fall 2012.

4. Undergraduate Students as Major Advisor (since 2000 of a total of 300+ from 1986-2006):

Eric Wallenstein (Rutgers-Biomedical Engineering) Novel polyarylate and polycarbonate scaffolds as dermal replacements in a bioengineered human skin model. Included a Senior Design Project 2001-2002. Named National Defense and Engineering Graduate Fellow 2003-2006-sponsored by the Department of Defense. **Fall 2001-Fall 2002. Undergraduate Senior Thesis with Michniak as Advisor**, Dept. of Biomedical Engineering at Rutgers: "Physicochemical Considerations in Fabricating Polymer-Collagen Hybrid Scaffolds for Skin Tissue Engineering". May 2002.

Sree Akkapeddi (NJIT- Biomedical Engineering) Tissue culture of a novel human bioengineered skin equivalent: polymer scaffold dermal replacements. Summer 2002-Spring 2003.

Rasha Batarseh (NJIT-Biomedical Engineering) Iontophoresis as a technique for drug delivery enhancement (naltrexone and lidocaine). Included a Senior Design Project 2003. September 2002-September 2003.

Milind Desai (Rutgers-Biomedical Engineering) Engineering of skin tissue substrates: materials design and physico-chemical considerations. Included a Senior Design Project 2002. Spring 2002-Fall 2003.

Reshma Thani (Rotation Master's student, UMDNJ-NJMS) Transdermal drug delivery: novel concepts in design. Spring 2002.

Dipa Bharucha (Rotation Master's student, UMDNJ-NJMS) Iontophoresis as a physical enhancement technique in transdermal drug delivery. Fall 2002-Summer 2003.

Yulu Wang (NJIT –NJ Center for Engineered Particulates) Nanoparticle coating and encapsulation with polymers by supercritical fluid processing: dissolution studies with model drugs. Spring 2003-2005.

Jason Viera (NJIT-Biomedical Engineering) HPLC techniques for methylxanthines. Summer and Fall 2003.

Caitlin Weaver (NJIT-Biomedical Engineering) Iontophoretic methods of transdermal delivery of drugs. Summer 2003.

Edward Cheong (UMDNJ-NJMS) Summer 2003.

Christopher Elvin (NJIT BME program) Senior Design Project:Active Transdermal System. Spring 2004.

Cesar Avalos (NJIT BME Program) Senior Design Project: Active Transdermal System. Spring 2004.

Iman Ibrahim (Rutgers-Pharmacy) The Transdermal Absorbance of Theophylline in vitro using chemical enhancement. Report for Research Lab. Credit. Summer 2004.

Shailaja Mandapuram (NJIT –Chemical Engineering) Summer 2004-Dec 2004.

Rivka Stone (NJIT-Biomedical Engineering Program) Fall 2004.

Wojtek Tutak (NJIT-Biomedical Engineering Program) Fall 2004.

Karandeep Jagpal and Ronald Samia (Rutgers Biomedical Engineering Program) Fall 2005 and Spring 2006.

Ankita Adhia (Pharmacy) Fall 2005 and Spring 2006.

Swaroop Paratkar (Rutgers/ UMDNJ Joint Program of Molecular Biosciences) Spring 2006.

Kevin (Pin-I) Wu (Rutgers Pharmacy) **Pharmacy Honors Thesis Program**, 2006-2009.

Serom Lee (Rutgers-Biomedical Engineering) Senior Design Project, 2006-2007.

Ajay Madduri (Rutgers Pharmacy) Spring 2007.

Yasmin Poustchi (RU/UMDNJ-RWJ Medical Program), 2007-2010.

Shirin Poustchi (NJCBM LDD High School Summer Program) Summer 2008.

Hagar Dayan (NJCBM LDD High School Summer Program) Summer 2008 and Summer 2009.

Marco Viscomi (Rutgers Biotechnology-School of Environmental & Biological Sciences), 2007-2008.

Kanika Wahi (Rutgers-Biomedical Engineering Senior Design) Fall 2007 and Spring 2008.
Ravi Patel (Rutgers-Biomedical Engineering Senior Design) Fall 2007 and Spring 2008.
Ankur Talwar (Rutgers-Biomedical Engineering Senior Design) Fall 2007-Spring 2008.
Sapan Modi (Rutgers-Biomedical Engineering Senior Design) Fall 2007 and Spring 2008.
Elizabeth Thaliath (Rutgers-Biomedical Engineering Senior Design) Fall 2007 and Spring 2008.
Lysette Deshields (Rutgers-Pharm. D. 2nd year) Spring and Fall 2008.
Suzanne Sciarappa (1st year Medical Student, UMDNJ Medical School) Summer 2008.
Keith McClary (Rutgers- Biomedical Engineering Senior Design) Fall 2009 and Spring 2009.
Edward Moran (Rutgers- Biomedical Engineering Senior Design) Fall 2009 and Spring 2009.
Sana Mahmood (Rutgers- Biomedical Engineering Senior Design) Fall 2009 and Spring 2009.
Deanna Shea (Rutgers-Pharm.D., grad. Date 2010) Fall 2008 and Spring 2009.
Shang Jen (Rutgers-Pharm.D. 2nd year) Spring 2009.
Niral Chheda (Rutgers-Pharm.D. 2nd year) Spring 2009.
Jane Lee (Summer High School student), Summer 2009.
Maaz Enver (Rutgers - Pharm D. candidate 2012), Summer 2009.
Tae E. Park (Rutgers -Pharm. D.3rd Professional year), 2 credits, Fall 2009.
Jimmy Winters (Rutgers-BME Program), 2 credits, Fall 2009, Spring/Summer/Fall 2010.
David Winters (Rutgers- BME Program), 2 credits, Fall 2009 & Spring/Summer/Fall 2010.
Vicki Gennaro (Rutgers-BME Program), 1 credit, Fall 2009 and 2 credits Spring 2010.
Michael Chiou (Rutgers School of Arts and Sciences student majoring in Biological Sciences Economics), Fall 2010- present. **Senior Honors Thesis Fall 2011** in Biological Sciences. Received Best Poster Award for “Permeation of nicotine across Polyderm human skin equivalent” at Rutgers University 7th Aresty Undergraduate Research Symposium April 29th 2011. Senior Honors Thesis entitled “Development of a Polymeric Human Skin Equivalent (HSE)” defended on April 10th 2012.
Lisa Tiu (Rutgers Pharmacy Pharm.D. candidate 2012), 2 credits, Spring 2010.
Yangmin “Mimi” Chen (Rutgers Pharm.D. candidate), EMSOP Summer Fellowship Program, Summer 2010 and **Pharmacy Honors Thesis** Program candidate Fall 2010-2012. Won 2010 Jerome and Lorraine Aresty Research Center for Undergraduates Funding Award \$800 in Fall 2010. Senior Honors Thesis entitled “Tyrosine-derived nanospheres (TyroSpheres) for topical drug delivery: Use in psoriasis treatment and skin transplant rejection” defended on April 18th 2012.
Vani Kumaran (Rutgers Pharm.D. candidate 2014), Fall 2010-Summer 2011.
Ali Hady, 2010 Jerome and Lorraine Aresty Research Assistant (Rutgers- Biological Sciences), Fall 2010-Fall 2011.
Theresa Bello (Rutgers Pharm.D. candidate), 2 credits, Fall 2010.
Marissa Laohoo (Rutgers Pharm.D. candidate), 2 credits, Fall 2010- Spring 2012.
Joshua Wang (Rutgers-BME), 1 credit, Fall 2010 and Spring 2011.
Jimmy Winters (Rutgers-BME Honors Program), Spring 2011-Spring 2012.
David Winters (Rutgers- BME Honors Program), Spring 2011-Spring 2012.
Alex Wei (Rutgers PharmD program). **Pharmacy Honors Program** member, Defended Thesis Summer 2013 entitled “Tissue Engineered Human Skin Equivalents”, Spring 2011-2013.
Rachel Durie (Rutgers PharmD candidate), 2 credits, Spring 2011.
Ami Shah (Rutgers PharmD candidate), 2 credits, Spring & Fall 2011.
Reena Nadpara (Rutgers PharmD candidate), Fall 2011, 2 credits, Spring 2011 2 credits, Spring 2012- 1 credit.
Marina Botrous (Rutgers Pharm. D. candidate), Fall 2011 2 credits, Spring 2012, 1 credit.
Danielle Lazzaro (Rutgers Volunteer Student), Summer 2010-Summer 2012.
Hakim Robinson (Rutgers Pharm.D. candidate), 2 credits, Fall 2011.
Spreeha Choudhury (Rutgers Pharm.D. candidate), **Pharmacy Honors Program** member, 2 credits, Spring and Summer 2012.
Nirav Haribhakti (Rutgers Pharm. D. candidate), 2 credits, Spring, Summer and Fall 2012.

Edward Lin (Rutgers Pharm.D. candidate), Summer Undergraduate Research Fellowship SURF Program recipient, Summer 2012 and **Pharmacy Honors Program** Fall 2012-2015.

Bintou Fisiru, Rutgers RISE student Fellowship, Summer 2012.

Neha Desai (Rutgers Volunteer, full-time), Fall 2012-present.

Parita Shah (Rutgers SAS student), 4 credits, Fall 2012.

Ahmed Ahmed (Rutgers Pharm.D. candidate and **Pharmacy Honors Program**) 2 credits, Fall 2012. Pharmacy Honors Program Spring 2013-2015.

Ngoc Tram Le (Rutgers Volunteer-full-time), Fall 2012-present.

Nitprapa Siriwannakij (Rutgers Chemical Engineering), 3 credits, Fall 2012.

Neethu Pottackal (High School Student-Lab. Volunteer) Fall 2012-present.

Suchitra Ghumwala (Rutgers Pharm.D. candidate and **Pharmacy Honors Program**) 2 credits, Spring 2013.

Shamir Kalaria (Rutgers Pharm. D. candidate), 2 credits, Spring and Fall 2013.

Alexander Mozeika (Rutgers Pharm. D. candidate), 2 credits, Spring 2013.

Bhumika Panchal (Rutgers Pharm. D. candidate), 3 credits, Spring 2013.

Maressa Criscito (UMDNJ-RWJ Medical School students), Spring 2013.

Kimberly Morsch (Biology Major, Holy Cross College, MA), Summer 2013.

Arianna Sjamsu (Biology Major- Brandeis University, MA), Summer 2013.

Jill Tracey (Rampano College, NJ) RISE/REU student scholar, Summer 2013.

Tatiana Velez (University of Puerto Rico, Mayaguez, PR) RISE/REU scholar, Summer 2013.

Elina Dave (High School Student- Lab. Volunteer) Summer 2013.

Rose Soskind, (Rutgers Pharm.D.) **Pharmacy Honors Program**. Fall 2013-Summer 2015.

Samyukta Bengeri (Rutgers Pharm. D. Candidate), 2 credits, Fall 2013 & Spring 2014.

Dev Patel (Rutgers Pharm. D. Candidate), **Pharmacy Honors Program**. Fall 2013-2014.

Jaklin Hanna (Rutgers Pharm. D. Candidate), 2 credits, Fall 2013.

Anna Yang (Rutgers Pharm.D. Candidate), **Pharmacy Honors Program**. Fall 2013-present.

Kaiwen Wang (Rutgers Pharm.D. Candidate) Summer Undergraduate Research Fellowship SURF Program recipient, Summer and Fall 2014.

Mingjun Kim (Rutgers Pharm.D. Candidate), 2 credits, Spring 2015 and 2 credits Fall 2015.

Titania “Tania” Chin (Rutgers Pharm.D. Candidate), 2 credits Fall 2015.

Yumi Yi (Rutgers Pharm.D. Candidate), 2 credits Spring 2016.

Jennifer Kelly (Rutgers Pharm.D. Candidate), 2 credits Spring 2016 and Summer 2016.

Grace Chong (Rutgers Pharm.D. Candidate), 2 credits Spring 2016, Summer 2016 and Fall 2016.

Carlos “Willy” Contereras Aviles (Rutgers MBS Personal Care Science), Fulbright Scholar, Summer 2016 and Fall 2016.

Nidhi Shah (Rutgers MBS Personal Care Science), Summer 2016.

Imani Nicholson (Rutgers MBS Personal Care Science), Summer and Fall 2016.

Vishala Maharaj (Rutgers MBS Personal Care Science), Summer 2016.

Nackchun Kim (Rutgers MBS Personal Care Science), Summer and Fall 2016.

Danielle Kadish (Rutgers MBS Personal Care Science), Fall 2016

Roshni Shibad (Rutgers Pharm.D. Candidate), 2 credits Fall 2016.

Khilat Abbas (Rutgers Pharm.D. Candidate), 2 credits Fall 2016.

Jason Dorr (Rutgers Pharm.D. Candidate), 2 credits Fall 2016.

Jasmin Ashour (Rutgers Pharm.D. Candidate), 2 credits Spring, part-time in summer & 2 credits Fall, 2017.

Mannet Dhaliwal (Rutgers Honors College), 2 credits Spring 2017.

Michele Li (Rutgers Douglass Project), 2 credits Spring 2017.

Maria Novianti (Rutgers MBS Personal Care Science), lab. volunteer, Spring 2017.

Abhiram Gollapudi (Rutgers Biological Sciences), 2 credits, Spring 2017.

Yoonsun Choi (Rutgers Pharm.D. Candidate), Summer Undergraduate Research Fellowship SURF Program recipient, Summer 2017.

Vaidehi Upadhayaya (Rutgers Pharm.D. Candidate), 2 credits, Fall 2017.
Kishan Patel (Rutgers Pharm.D. Candidate), 2 credits, Fall 2017.
Lon hau Pang (Rutgers Pharm.D. Candidate), 2 credits, Fall 2017.
Sree Sudharshan (Rutgers University ARESTY Fellow), Fall 2017 to Spring 2018.
Lea Polito (Rutgers University ARESTY Fellow), Fall 2017 to Fall 2018.
Tyler Goldberg (Rutgers Pharm.D. Candidate), 2 credits, Fall 2017.
Jasmin Ashour (Rutgers Pharm.D. Candidate), 2 credits, Fall 2017.
Aia Ali (Rutgers Pharm.D. Candidate), 2 credits, Spring 2018.
Ibram Mikhail (Rutgers Pharm.D. Candidate), 2 credits, Spring 2018, Fall 2018 and Spring 2019.
Shajadi Munna (Rutgers Pharm.D. Candidate), 1 credit, Spring 2018 and Fall, 2018 -2 credits.
Abhilasha Borad (Rutgers Pharm.D. Candidate), 2 credits, Spring 2018.
Engy Mikhail (Rutgers Pharm.D. Candidate), 2 credits, Spring 2018.
Carmella Schwab (Rutgers MBS Program), internship Summer and Fall 2018.
David Lo (Rutgers MBS Program), internship Summer and Fall 2018.
Piyawadee Mahuttanaraks (Rutgers MBS Program), internship Summer 2018.
Emily Yuasa (Rutgers Pharm.D. Candidate), 2 credits, Fall 2018 and 2 credits Spring 2019.
Akshada Chordiya (Rutgers University ARESTY Fellow), Fall 2018 and Spring 2019.
Riya Savla (Rutgers University ARESTY Fellow), Fall 2018, Spring & Fall 2019 & Spring 2020.
Anay Kacharia (Rutgers University MBS Program Internship), 3 credits, Fall 2018 and Spring 2019.
Shernelle Pringle (Rutgers MBS, Biomedical Sciences), 3 credits, Capstone project, Fall 2018 & Spring 2019.
Yoonsun Choi (Rutgers Pharm.D. Candidate) 1.5 credits, Fall 2018 and Spring 2019.
Aasav Mehta (Rutgers Pharm.D. Candidate), 2 credits, Spring 2019.
Adelle Abady (Rutgers Pharm.D. Candidate), 2 credits each semester, Spring and Fall 2019.
Jiayi Joy Yuan (Rutgers University MBS Program Internship), Spring 2019.
Rohan Shah (Rutgers Honors College), Summer & Fall 2019.
Alexis Couch (Rutgers Pharm.D. Candidate) 2 credits, Summer & Fall, 2019.
Olivia Smutek (Rutgers Pharm.D. Candidate) 2 credits, Summer & Fall, 2019.
Lily Chang (Rutgers University ARESTY Fellow), Fall 2019 and Spring 2020.
Hardler Servius (Hofstra University, RISE/REU student scholar, Summer 2019).
Kevin Chen (Rutgers Pharm.D. Candidate), **Pharmacy Honors Program & SURF Summer Program** 2020. Spring 2019-present.
Khushbu Patel (Rutgers Pharm.D. Candidate) 2 credits, Fall 2019.
Ashka Vaidya (Rutgers Pharm.D. Candidate) 2 credits, Fall 2019 and Spring 2020 (volunteer).
Laura Lee (Rutgers Pharm.D. Candidate) 2 credits, Fall 2019.
Ingrid Chou (Rutgers Pharm.D. Candidate) 2 credits, Fall 2019.
Dhaara Popat (Rutgers MBS Program), 2 credits, Spring 2020.
Sairohit Raghupathy (Rutgers MBS Program), 2 credits, Spring 2020.
Kavita Shanbhag (Rutgers MBS Program), Spring 2020.
Hamil Amish Shah (Rutgers MBS Program), 2 credits, Spring 2020.
Jinny Dongjin Yoo (Rutgers Pharm.D. Candidate), 2 credits, Spring 2020.
Strayant (Ray) Gayam (Rutgers Pharm.D. Candidate), 2 credits, Spring 2020.
Amy Ryu (Rutgers Pharm.D. Candidate), 1 credit, Spring 2020.
Celymar Valentin (University of Puerto Rico, Mayaguez, Chemical Engineering Program) Rutgers RISE student scholar, Summer 2020.
Sophia Mordan (Rutgers, School of Environmental & Biological Sciences & Project SUPER at Douglass Residential College), Summer 2020.
Katrina Tun (Rutgers University ARESTY Fellow), Fall 2020, Spring & Fall 2021.
Xiaoran “Joyce” Cui (Rutgers University Biological Sciences & University Honors Program), Spring 2021 and as Senior Honors student Fall & Spring 2021 and 2022.
Seahyun Lim (Rutgers Pharm.D. Candidate), 2 credits, Fall 2021.

Shruti Patel (Rutgers Pharm.D. Candidate), 2 credits, Fall 2021 and Spring 2022.
Ananya Mahalingham (Rutgers Pharm.D. Candidate), 2 credits, Fall 2021 and Spring 2022.
Andrea Salajova (Rutgers Masters in Biological Sciences), Spring 2022.
Janvi Lagdiwala (Rutgers Pharm.D. Candidate), Pharmacy Senior Honors Thesis, 2 credits, Spring, Fall 2022 & Fall 2023.
Jailen Doyle (RISE/REU student scholar), Summer 2022.
Chisom Enekebe (Douglass WiSE's Project SUPER Research Program at Rutgers), Summer 2022. Stayed on for Pharmacy Senior Honors Thesis, Fall 2022-Spring 2024.
Le Anh Thu Nguyen (Douglass WiSE's Project SUPER Research Program at Rutgers), Summer 2022.
Sadaf Gharibi, (Rutgers Pharm.D. Candidate), 2 credits, Fall 2022, Spring 2023 and SURF Summer Program Fellowship 2023.
Ivy Chen, (Rutgers Pharm.D. Candidate), 2 credits, Spring 2023.
Brian Chan (Rutgers Pharm.D. Candidate), 2 credits, Fall 2023 & Spring 2024.
Samantha Taylor (Rutgers Pharm.D. Candidate), 2 credits, Fall 2023.
Sameera Mizra (Rutgers Pharm.D. Candidate), 2 credits, Spring 2024.
Ge Bai (RWJ Medical School student), volunteer, Spring 2024.
Ananaya Mahalingham (Rutgers Pharm.D. Candidate), volunteer, Spring 2024

5. Visiting Scientists & International Visitors in Michniak-Kohn Lab. since 2000:

Professor Witold Musial, Ph.D. D.Sc., Head of the Department, Department of Physical Chemistry and Biophysics Pharmaceutical Faculty, Wroclaw Medical University, Borowska 211A, Wroclaw 50-556, Poland. Visiting LDD Sept. 18- 26th September 2023.

Professor Hanna Piotrowska-Kempisty, Ph.D. Assistant Professor, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May-August, 2023.

Malgorzata Jozkowiak, Ph.D. Scholar, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May- August 2023.

Monika Wojtylko, Ph.D. Scholar, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May-August 2023.

Mohamed Abozaid, Ph.D. Scholar, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. April- August 2023.

Nikita Marinko, M.Sc. Zentiva Company, Czech Republic Funded by Orbis RISE grant. May- July 2023.

Professor Judyta Cielecka-Piontek, Ph.D. Professor, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. July, 2023.

Paulina Skupin-Mrugalska, Ph.D., Dept of Inorganic & Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May- September 2023.

Professor Janina Lulek, Ph.D., Professor & Head Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. April 2023.

Katarzyna Kosicka-Noworzyn, Ph.D. Assistant Professor, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May- November

2022 with ORBIS funding and November-May 2023 with funding from Kosciuszko Foundation sponsorship.

Professor Marta Karazniewicz-Lada, Ph.D. Assistant Professor, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May-November 2022.

Professor Aleksandra Grzabka-Zasadzinska, Ph.D. Poznan University of Technology, Poznan, Poland. Funded by Orbis RISE grant. May- November 2022.

Professor Spela Zupancic Ph.D. Assistant Professor, Faculty of Pharmacy, University of Ljubljana (UL FFA), Slovenia. Funded by Orbis RISE grant. January-June 2023.

Alice Tomnikova, Ph.D., Formulation Specialist, Pharmaceutical Development, Zentiva Group, Prague, Czech Republic-zentiva.com. Funded by Orbis RISE grant. November 2022-February 2023.

Aneta Vovesna, Ph.D. Scholar, Department of Organic Technology, University of Chemistry and Technology, Prague, CZ. Funded by Orbis RISE grant. May-July 2022.

Kristyna Dvorakova, Ph.D. Scholar, Department of Organic Technology, University of Chemistry and Technology, Prague, CZ. Funded by Orbis RISE grant. May-August 2022.

Anze Zidar, Ph.D. Scholar, Dept. of Pharmaceutical Technology, Faculty of Pharmacy, University of Ljubljana, Slovenia. September 2022- February 2023.

Professor Witold Musial, Ph.D. D.Sc., Head of the Department, Department of Physical Chemistry and Biophysics Pharmaceutical Faculty, Wroclaw Medical University, Borowska 211A, Wroclaw 50-556, Poland. Financed from the funds granted by the Ministry of Science and Higher Education in the “Regional Initiative of Excellence” program for the years 2019-2022, project number 016/RID/2018/19. May 2022.

Professor Sabina Jaros, Ph.D., University of Wroclaw, Faculty of Chemistry, 14. F. Joliot-Curie Street, 50-383 Wroclaw, Poland. Funded by travel funds from University of Wroclaw. June-July 2022.

Dilek Gungor, Ph.D. Scholar, Hacettepe University, Institute of Science, Ankara, Turkey. Funding from the Scientific and Technological Research Council of Turkey (TUBITAK) for one year of study abroad. July 2022-July 2023.

Professor Jan Matysiak, Ph.D. Chair of Medicinal Chemistry, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. November 2022.

Piotr Gadzinski, M.S., Ph.D. Scholar, Department of Pharmaceutical Technology, Faculty of Pharmacy, Poznan University of Medical Sciences. Funded by Orbis RISE grant. June- September 2022.

Professor Katarzyna Kosicka-Noworzyn, Ph.D. Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. June-November 2022.

Professor Aleksandra Romaniuk-Drapala, Ph.D. Assistant Professor, Dept. of Clinical Chemistry and Molecular Diagnostics, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. July-December 2022.

Raheem Bahadar PharmD, Ph.D. Scholar, Dept. of Pharmacy, COMSATS University, Islamabad, Abbottabad Campus, 22060 Abbotabad, Pakistan. Funded by Higher Education Commission of Pakistan, Feb. to July 2022.

Professor Anna Froelich, Ph.D., Assistant Professor, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. March 2019-March 2020.

Pavel Kovacik, Ph.D., Formulation Specialist, Pharmaceutical Development, Zentiva Group, Prague, Czech Republic-zentiva.com. Funded by Orbis RISE grant. February 2020- March 2020.

Katarzyna Dopierala, Ph.D., Poznan University of Technology, Poznan, Poland. Funded by Orbis RISE grant. August-October 2022.

Michaela Gajdosova, Ph.D. Formulation Specialist, Pharmaceutical Development, Zentiva Group, Prague, Czech Republic-zentiva.com. Funded by Orbis RISE grant. September 2019-November, 2019.

Marta Napierala, Ph.D., Laboratory of Environmental Research, Department of Toxicology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. September 2019-November, 2019.

Professor Franciszek Glowka, Ph.D., D.Sc. Vice-Dean, Professor & Head of Dept. of Physical Pharmacy & Pharmacokinetics, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. September 2019.

Paulina Skupin-Mrugalska, Ph.D., Dept of Inorganic & Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. September 2019-February, 2020.

Professor Tomasz Osmalek, Ph.D., Assistant Professor, Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. January 2020-March, 2020.

Professor Janina Lulek, Ph.D., Professor & Head Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. May-June 2018.

Anna Juszczak-Wzgarda, M.Sc. Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. June-September 2018.

Ewelina Wieczorek, M.Sc. Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. June-September 2018.

Marek Rychter, M.Sc. Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. June-September 2018.

Michal Falkowski, M.Sc. Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. June-September 2018.

Wioleta Maruszak, Ph.D. Pharmaceutical Research Institute, R&D Analytical Chemistry Dept., Warsaw, Poland. Funded by Orbis RISE grant. August 2018.

Katarzyna Mroz, M. Eng. Pharmaceutical Research Institute, R&D Analytical Chemistry Dept., Warsaw, Poland. Funded by Orbis RISE grant. August-October 2018.

Katarzyna Kosicka, Ph.D. Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poznan, Poland. Funded by Orbis RISE grant. August 2018-February 2019.

Piotr Rudzki, Ph.D. Pharmaceutical Research Institute, R&D Analytical Chemistry Dept., Warsaw, Poland. Funded by Orbis RISE grant. October 2018.

Professor Chandarat Ampasavate Ph.D., Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand. Funded by Researchers & Research Projects for Industry Project of Thailand Research Fund. May 2018.

Phunsuk Anantaworasakul, Ph.D. student at College of Pharmacy, Chiang Mai University, Chiang Mai, Thailand. Funded by Researchers & Research Projects for Industry Project of Thailand Research Fund. May-December 2018.

Panikchar Wichayapreechar, Ph.D. student at College of Pharmacy, Chiang Mai University, Chiang Mai, Thailand. Funded by Researchers & Research Projects for Industry Project of Thailand Research Fund. May-December 2018.

Dean & Professor Indu Pal Kaur M.Pharm. Ph.D., PDCR, Fulbright Scholar, Dean Faculty of Pharmaceutical Sciences, Professor & Head, Dept of Pharmaceutics, University Institute of Pharmaceutical Sciences, Panjab University Chandigarh 160014, India. November 2017- May 2018.

Barbara Bartoletti, intern from Universite Nice Sophia Antipolis Cedex, France from Bioengineering department. June - September 2017.

Jemima Moraes, Ph.D. candidate in Translational Medicine: Pharmacy & intern from Universidade Federal de Sao Paulo (UNIFESP), Sao Paulo, Brazil with CAPES scholarship (Brazilian Federal Agency for Support and Evaluation of Graduate Education) awarded for 09/2017 to Summer 2019. Working on topical formulations containing various clay minerals, clay mineral microstructure and effects on active delivery into the skin layers. Defended Ph.D. December 2019 in Sao Paulo, Brazil.

Caroline Mellac, Ph.D. candidate & intern from Ecole Nationale Supérieure Agronomique de Toulouse, France Masters Program in Engineering and Management. September 2016-May 2017.

Hongmei Lin M.S., School of Chinese Materia Medica, Beijing University of Chinese Medicine, Beijing China. February 2017-February 2018.

Kavita Beri, M.D. practicing clinician dermatologist from Ocean City, NJ, Spring 2015-present.

Samuel Gurion-Arsiquaud, Ph.D. spectroscopist from TRI, Princeton NJ. Spring 2015-present.

Daphne Benderly, Ph.D. from Presperse, NJ specializing in polymer chemistry and characterization. July 2016- 2021.

Sharon Haynie, Ph.D. from Hypatia Technology Works, LLC, Philadelphia, PA. Specialist in drug delivery systems. Fall 2018-2019.

Aaron Cohen, Ph.D. from Colgate Palmolive, NJ specializing in polymer chemistry and skin studies. February 2019-2020.

Komal Shahani, Ph.D. from Croda, NJ specializing in polymers and personal care products for skin. September 2016- May 2017.

Arsalan Khan, Ph.D. from Croda, NJ specializing in polymers and personal care products for skin. September 2016-2019.

Allyson Maron, Ph.D. from Croda, NJ specializing in polymers and personal care products for skin. September 2017-2019.

Amra Tabakovic, Ph.D. from Croda, NJ specializing in polymers and personal care products for skin. July 2018-2019.

Natalia Shub, Ph.D. Merial, NJ specializing in skin permeability testing, veterinary formulations and formulation optimization. September 2016-September 2017.

Michael Liu, Ph.D. from Zymeron Corporation, Research Triangle Park, NC, Vice-President R&D specializing in regenerative medicine for dermatology. August 2016-2018.

Arianna Cecilia Cozzi, University of Pavia, Department of Drug Sciences, Italy. Ph.D. student in Cosmetic & Pharmaceutical Technology, May 2016- May 2017.

Thalia Moreno Garcia Malo, Centro de Investigacion en Biotecnologia Aplicada, Instituto Politecnico Nacional, Puebla, Mexico. Master's student, Internship at the Center for Dermal Research CDR, Rutgers University, May - August 2016.

Isabelle Nguyen, University of Nice Sophia-Antipolis, France in Biomedical Engineering, Summer Internship at the Center for Dermal Research CDR, Rutgers University, May – August 2015.

Bianca Aparecida Savoldi Picoli, from Brazil on Brazil Scientific Mobility Program at University of Toledo, Summer Internship at the Center for Dermal Research CDR, Rutgers University, May – August 2015.

Gislaine Ricci Leonardi, Ph.D., Professor UNIFESP-Universidade Federal de Sao Paulo, Campus Diadema, Rua Sao Nicolau, Sao Paulo, Brazil. Visiting in July 2015.

Oluwatoyin Ayotomilola Adeleke, Ph.D. Fulbright Scholar & Postdoctoral Research Fellow in Drug Delivery Systems/Formulation Design at the Council for Scientific and Industrial Research Centre for High Performance Computing and Materials Science and Manufacturing in Pretoria, South Africa. Sept. 1 – Dec 31st 2014.

Jessica San Jose Visiting Summer student from Faculdade de Ciencias Farmaceuticas de Ribeirao Preto (FCFRP), University of Sao Paulo (USP). Supported through The State of Sao Paulo Research Foundation (FAPESP) and The National Council for Scientific and Technological Development (VNPq). Summer 2014.

Francisco Javier Palma Gavilan, B.S. Visiting Scientist from Departamento de Ingeniería Química y Bioprocesos, Pontificia Universidad Catolica de Chile, Santiago, Chile, January- July 2013.

Casey Kick, B.S., Masters student from University of West Michigan, Summer 2013. Worked on drug dissolution methodology for tablets.

Damanpreet Kaur, Visiting Student from Univ. of Texas (Arlington) Bioengineering Program, Summer 2012.

Gabriela Oliveira, Ph.D. School of Pharmacy, University of London, Spring 2011. Buccal delivery of drugs using EpiOral and porcine tissues.

Julia Lieken Ph.D. student from University of Dusseldorf. Permeation of model drugs through a bioengineered human skin model. Feb.- March 2002.

Alberto A.C. Canelas Pais Ph.D., Associate Professor, Dept. of Chemical Engineering, University of Coimbra, Coimbra, Portugal. Sabbatical leave June-Aug 2006.

Amnon Sintov, Ph.D., Ben Gurion University of the Negev, Dept. of Pharmacology and School of Pharmacy, Beer Sheva, Israel. Sabbatical leave, Oct. 2006 -July 2007, July- Sept. 2008 and June-Sept. 2011.

Kristia Rivera B.S., University of Puerto Rico, Dept. of Chemical Engineering, Rutgers REU Program summer student, June 1-Sept. 1, 2008.

Raja Sivalenka, Ph.D. Visiting Scientist, 2007-2009. Phototoxicity studies on hydroxycinnamic acid, cytotoxicity studies on human keratinocytes and human fibroblasts and development of novel formulations for hydroxycinnamic acid.

SERVICE

To the Profession

Member of the Scientific & Organizing Committees for the 4th Poznan University of Medical Sciences PUMS conference on “Modern pharmaceutical & biomedical analytics in health care”, October 23-24, 2023, Poznan, Poland.

Member of the Scientific & Organizing Committees for the international conference “Physical Chemistry and Biophysics for Pharmacy” at the Medical University of Wroclaw, December 8th, 2023, Wroclaw, Poland.

Member of General Assembly, Steering Committee and Training Committee for the European Commission Research & Innovation HORIZON 2020 Call: H220-MSCA-RISE-2017 (Marie Skłodowska-Curie Research & Innovation Staff Exchange). Termed ORBIS funding. Topic MSCA-RISE 2017 Proposal No. 778051 “Open Research Biopharmaceutical Internships Support” ORBIS 2017-2022. Includes Trinity College, Dublin, Ireland, Rutgers University, NJ, USA and University of Helsinki, Finland. P.I. Janina Lulek, University of Poznan, Poznan, Poland. Rutgers P.I. B. Michniak-Kohn. Funded July 2017, March 2018-August 2023.

Co-organizer (with Prof. Tomasz Osmalek) of the 3rd ORBIS (Horizon 2020, Grant No 778051) Summer School Workshop on Topical and Transdermal Drug Delivery Systems, Poznan University of Medical Sciences (PUMS), Poznan, Poland. June 21-22, 2022.

Member of Planning Committee and Conference Moderator for the 2021 FDA CRCG In Vitro Release Testing/ In vitro Permeation Testing IVRT/IVPT Workshop, August 16-17th, 2021.

Invited reviewer to National Science Foundation NSF SBIR/STTR Phase I: Covid-19-VI Review panel. June 16, 2020.

Member of Controlled Release Society CRS Committee for The Transdermal Delivery Kydonieus Foundation Award. Appointed January 2018.

Member of International Pharmaceutical Excipients Council of the Americas (IPEC) Committee on Annual IPEC Award Ceremony planning. January 2018- 2020.

Academic Chair of the Transdermal section of the Non-Invasive Macromolecule Consortium Working Group of the Catalent Applied Drug Delivery Institute www.drugdeliveryinstitute.com. (2014-2019).

Organizing Committee member for the 6th International Conference on Clinical & Experimental Dermatology, Chicago, May 5-7th, 2016. Link: <http://dermatology.conferenceseries.com>.

Member of Industrial Advisory Board Steering Committee, NSF Engineering Research Center C-SOC Center for Structured Organic Particulate Systems C-SOPS at Rutgers-The State University of NJ (2007-2018).

Member of Leadership Committee-position of FDA Liaison, NSF Engineering Research Center C-SOC Center for Structured Organic Particulate Systems C-SOPS at Rutgers-The State University of NJ (2007-2018).

Member of the Faculty of the National Institute for Pharmaceutical Technology and Education (NIPTE) (2014-present).

Member of Management /Steering Committee of the Center for Gastrointestinal Research (CGIR) at Rutgers University (2010-2015).

Member of Management /Steering Committee of the Rutgers Institute of Bioengineering (2011-2018).

Member of the Industrial Advisory Board of the New Jersey Center for Biomaterials, Rutgers University, Piscataway, NJ (2001-2020).

Invited member (reviewer) in College of Assessors, Science System Investment & Performance Branch, Ministry of Business, Innovation & Employment, Wellington, New Zealand (2015-current).

Invited reviewer for the Dutch Technology Foundation STW proposals (April, 2013).

Invited reviewer for the France-Berkeley Fund 2011 proposal call, April 2011.

Invited reviewer for the National Medical Research Council of Singapore (IRG10nov072) proposal call, February 2011.

Invited reviewer for the Dutch Organization for Health Research and Development (ZonMw) ERANET PRIOMEDCHILD program proposals (www.priomedchild.eu) (May, 2010).

Invited reviewer for The Center for Scientific Review of the NIH and the Italian Ministry of Health, Directorate for Health & Technologies Research review of proposals (2009).

Invited reviewer for Defense Threat Reduction Agency (DTRA) Joint Science and Technology Office for Chemical and Biological Defense (JSTO-CBD) FY 10/11 Phase II Scientific Review of proposals, 2009-2010.

Invited reviewer and member of Biomedical Research Advisory Committee for the Rutgers University Charles and Joanna Busch Biomedical Grants 2009.

Member of the New Jersey Greater Garden State Nanotechnology Alliance Scientific Advisory Board, 2005-2007.

Mentor for American Chemical Society Project SEED (2002- 2007).

Member of the International Pachyonychia Congenita Consortium, Salt Lake City, UT (2006-2010).

Faculty Advisor to Rutgers AAPS Student Chapter (2007-present).

Faculty Advisor to NJ/NY/PA Controlled Release Student Chapter (2008-present).

External Reviewer for the United States- Israel Binational Science Foundation (2002-present).

Reviewer for proposals submitted to the International Science and Technology Center (ISTC), Moscow, Russian Federation through the U.S. Dept. of State (2003- 2005).

External invited reviewer of University of Southern Nevada Intramural Funding Program for Faculty (2008).

Member of Evaluation of Research Units Panel of the Fundacao para a Ciencia e a Tecnologia (Foundation for Science & Technology) of the Government of Portugal to evaluate funded Research Centers in Schools of Medicine and Pharmacy (2004).

Member of CRS Pharmaceutical and Veterinary Awards Committee of the Controlled Release Society (CRS) (1998- 2004).

Member of Executive Committee of the SC Bioengineering Alliance (1998-2000).

Member of the University of South Carolina Electron Microscopy Center Advisory Committee (1998-2000).

Adjudicator for the Mendell Awards for Best Scientific Presentations at the 15th Pharmaceutical Technology Conference, Oxford, U.K., March 19-21 (1996).

AACP Faculty Delegate at AACP Annual Meeting, Salt Lake City, July 8-11, 1990.

National Institutes of Health (Dept. of Health and Human Services, Bethesda, MD)

Invited Reviewer for NIH/ NIBIB SBIR Review section, Meeting # 2015/10 ZEB1 OSR-E (M1) S, February 2, 2015.

Invited reviewer for NIH Musculoskeletal, Oral and Skin Sciences (MOSS) IRG projects, April 2011.

Invited reviewer for NIH National Institute of Biomedical Imaging and Bioengineering (NIBIB) Quantum U01 Projects, February 2010.

Invited Member of the College of NIH CSR reviewers (2010-present).

Ad hoc member of NIH Nanotechnology Study Section 2010/05 NANO, (2010).

Member of NIH Study Section: Gene and Drug Delivery Systems; Bioengineering Sciences & Technologies Integrated Review Group (ZRG1 GDD), (2005-2009 and as ad hoc in 2010).

Ad hoc Member NIH NIAMS R03 Special Emphasis Panel ZAR1 EHB-H M1 1, 03/25/2008- present.

Ad hoc Member NIH Bioengineering Sciences and Technologies Integrated Review Group (2009).

Chair, NIH SBIR/STTR Study Section, IRG: Biophysical and Chemical Sciences, Study Section: Drug Development and Delivery (2002-2005).

Ad hoc Member, NIH SBIR/STTR Study Section: Cancer Drug Development and Therapeutics ZRG1 ONC-T 10B (2005)

Ad hoc member of NIH Multidisciplinary Special Emphasis Panel: Study Section on Small Business Innovation Research and S. B. Technology Transfer, IRG: Biophysical and Chemical Sciences, Study Section: Drug Development and Delivery, (1995-2005).

Ad hoc member of NIH National Institute on Alcohol Abuse and Alcoholism Special Emphasis Panel ZAA1 DD (23), 2003.

American Association of Pharmaceutical Scientists

Member of the AAPS Formulation and Drug Development (FDD) Fellows Committee (2008-present).

Member of the Topical & Transdermal Community (TTC) of AAPS Steering Committee and the Programming Committee (2018 to present).

Member of Steering Committee of the Dermatopharmaceutics Focus Group of AAPS (2007-2018).

Member of Steering Committee of the Nanotechnology Focus Group of AAPS (2007-2009).

Chair, Outreach and Outreach Programming of Student and Post Doc Outreach and Development Committee (SPOD) at Annual and National Biotechnology Meetings, 2007-2008.

Chair, Student and Post Doc Outreach and Development Committee (SPOD), 2006-2007.

Vice Chair Student and Post Doc Outreach and Development Committee (SPOD), 2005-2006.

Chair of Pharmaceutics and Drug Delivery Section 2004-2005.

Chair of Programming and Chair-Elect of Pharmaceutics and Drug Delivery Section, 2003-2004.

Chair, Dermatopharmaceutics Focus Group, 2000- 2001.

Chair of Abstract Screening Committee for Pharmaceutics and Drug Delivery, 1999-2000.

Abstract Screening Committee Member for Pharmaceutics and Drug Delivery, 1998-1999.

Society for Biomaterials

Invited member of International Planning Committee for the 2012 World Biomaterials Congress, Chengdu, China. As member visited Beijing and Chengdu, China, April 6-10, 2010.

AAPS/Society for Biomaterials Liaison Committee Chair for the Society for Biomaterials (2001-2004).

Member of the Society for Biomaterials Committee on Education and Professional Development (2000-2004).

Chair of Abstract Screening Committee for The Society for Biomaterials annual meeting 2001, St. Paul, MN.

Member of the Society for Biomaterials Abstract Screening Committee for the Biomaterials World Congress, Kamuela, Hawaii, 2000.

United States Pharmacopeia (Rockville, MD)

United States Pharmacopeial Convention Member (representing NJ Medical School), 2000-2005.

United States Pharmacopeial Convention Member (representing University of South Carolina, School of Pharmacy), 1995-2000.

Organizer for Center for Dermal Research CDR Workshops and Conference Sessions (since 2011).

Organizer of numerous events for the Center for Dermal Research CDR since the founding of the Center in March 2011 www.centerfordermalresearch.org. See links to 2013, 2014, 2015, 2016, 2017-2018, 2019 Annual Reports for further detailed information.

Member of Organizing Committee of the 6th International Conference on Clinical & Experimental Dermatology, Chicago, IL, May 5-7, 2016.

Chair and organizer of Symposium session on “Bioactive Materials for the Regeneration of Skin”, The 11th New Jersey Symposium on Biomaterials Science and Regenerative Medicine, Oct. 9-11, 2012, Hyatt Regency Hotel, New Brunswick, NJ.

Organizer and Chair of session at the 9th World Biomaterials Congress “Innovative Biomaterials and Crossing Frontiers in Biomaterials & Regenerative Medicine”, Chengdu, China June 1-5, 2012 “Delivery Approaches to Skin Therapy”-June 4th.

Organizer of “Skin Care-Developments on the Horizon” one day meeting and 1st year anniversary celebration of Center for Dermal Research CDR meeting, Life Sciences Building, Rutgers-The State University of NJ, April 19th, 2012.

Organizer and Chair of the Programming Committee for “Skin Reconstruction for Wounds, Burns and Deep Skin Trauma” 4th Annual Skin Workshop, Rutgers University, Busch Campus, Oct. 12-13, 2011.

Organizer, Invited Speaker and Chair of Programming Committee “Alternatives to Animal Testing for Dermatological/ Cosmetic Products” 3rd Annual Skin Workshop, Rutgers University, Busch Campus, October 22, 2010.

Chair, Invited Speaker and organizer of Symposium session on “Tissue Engineering of the Skin”, The 10th New Jersey Symposium on Biomaterials Science and Regenerative Medicine, Oct.27-28, 2010, Hyatt Regency Hotel, New Brunswick, NJ.

Organizer of NJ Controlled Release Society Student Chapter Spring Seminar “Lipids and the Permeability Barrier of the Skin”, Rutgers University, Busch Campus, Piscataway, NJ, April 22, 2010.

Organizer and Speaker at the 2009 Pharmaceutics Conference, Rutgers University, Busch Campus, October 22, 2009.

Organizer and Invited Speaker at American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Roundtable on Careers in Academia held at National Biotechnology Annual Meeting of AAPS, Seattle, WA, June 21-24, 2009.

Organizer and Chair of Programming Committee of the Controlled Release Society New Jersey Chapter Spring 2009 Meeting, “New Approaches and Technologies in Oral Drug Delivery”, Rutgers University, June 2, 2009.

Organizer and Invited Speaker at American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Roundtable on Careers in Academia held at Annual Meeting of AAPS, Atlanta, Nov. 15, 2008.

Organizer, Speaker and Chair of Programming Committee, American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Outreach Program held at Annual Meeting of AAPS, Atlanta, Nov. 15, 2008.

Organizer and Chair of Programming Committee for “New Developments in Skin Care and Dermaceuticals” 2nd Annual Skin Workshop, Rutgers University, Busch Campus, Sept. 30th, 2008.

Chair and organizer of Symposium on “Development of New Therapies and Delivery Systems”, The 9th New Jersey Symposium on Biomaterials Science and Regenerative Medicine, Oct. 29-31, 2008, Hyatt Regency Hotel, New Brunswick, NJ.

Organizer, Invited Speaker and Chair of Programming Committee, American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Outreach Program held at University of Toronto, June 21, 2008.

Organizer, Invited Speaker, and Member of Programming Committee for Skin Summit II, Philadelphia Park, Hyatt, Philadelphia, Feb. 20-21, 2008.

Organizer, Invited Speaker, and Member of Programming Committee for 3rd annual Drug Delivery 2008, Hilton Del Mar, San Diego, July 28th-30th, 2008.

Organizer and Chair of NJ Center for Biomaterials Laboratory for Drug Delivery Weekly Seminar Series with invited speakers from universities and industry in NJ, PA, DE and NY area. Summer break in August each year, 2000-present.

Organizer, Invited Speaker, and Member of Programming Committee for 2nd Drug Delivery 2007, US Grant Hotel, San Diego, CA, June 6-8, 2007.

Organizer, Invited Speaker and Chair of Programming Committee for “Spotlight on Skin Research” Annual Skin Workshop, Rutgers University, Busch Campus, June 25th 2007.

Organizer and Moderator for Workshop “Skin Frontier: Trailblazing the Skin Frontier: Evidence Base, Opportunities and Training”, George Washington University, DC, August 11-13, 2007.

Co-Chair and Co-Organizer of the GRASP (Graduate Research Association of Students in Pharmaceutics) Annual Meeting at Rutgers University, June 1-3, 2007.

Organizer and Co-Chair of Symposium “Drug, Gene and Protein Delivery” at the 8th New Jersey Symposium on Biomaterials Science, New Brunswick, NJ, Nov. 8-10, 2006.

Member and Organizer of AAPS Pharmaceutics and Drug Delivery Meeting, June 7-11, 2004, Philadelphia, PA. Chair of Symposium “Novel Biomaterials & Drug Delivery Applications”.

Chair and organizer of Symposium on “Gene and Drug Delivery”, The 7th New Jersey Symposium on Biomaterials Science, Oct. 20-22, 2004, Hyatt Regency, New Brunswick, NJ.

Organizer and Chair of Symposium “Combination Medical Devices: Challenges and Opportunities” at the 7th New Jersey Symposium on Biomaterials Science, New Brunswick, NJ Oct. 20-22, 2004.

Organizer and Chair of AAPS Themed Meeting/Workshop entitled: “Critical Issues in the Design and Applications of Polymeric Materials in Drug Delivery”, Crystal Gateway Marriott, Arlington, VA, Feb 28-March 1, 2002.

Organizer and Chair of Symposium “Intelligent Biomaterials for Protein Delivery, Molecular Imprinting and Micropatterning” at the 29th annual meeting of The Controlled Release Society, July 20-25, 2002, Seoul, Korea.

Organizer and Chair of Session 32 “Surface Characterization and Modification” Symposium, annual meeting of the Society for Biomaterials, April 24-27, 2002, Tampa FL.

Organizer and Chair of Symposium “Design of Non-Viral Vectors for Gene and Drug Delivery”, 6th New Jersey Symposium on Biomaterials Science, Somerset Marriott Hotel, Somerset, NJ, Oct. 17-18, 2002.

Organizer and Chair of Symposium at the Annual Meeting of the American Association of Pharmaceutical Scientists entitled “In Vitro Testing Methods for Topicals and Transdermals”, Oct 20-25, 2001, Denver, CO.

Organizer and Co-Chair of Symposium at the Annual Meeting of the American Association of Pharmaceutical Scientists entitled “From Biological Thinking to Applications of Polymers in Pharmaceutical Technology Development”, Oct. 20-25, 2001, Denver, CO.

Organizer and Chair of “Biomaterials and Drug Delivery Symposia I and II “ at the annual meeting of The Society for Biomaterials, April 25-29, 2001, St. Paul, MN.

Membership of Professional Societies:

Royal Pharmaceutical Society of Great Britain, Controlled Release Society CRS, American Association of Pharmaceutical Scientists (AAPS Fellow), American Chemical Society ACS, Society of Cosmetic

Chemists and ASTM International as well as an Honorary Member of Sigma Xi, The Scientific Research Society.

Reviewer for Journals (46 total):

Journal of Pharmaceutical Sciences, Pharmaceutics, Journal of Controlled Release, Advanced Drug Delivery Reviews, Biopharmaceutics and Drug Disposition, Scientia Pharmaceutica, Skin Pharmacology, Skin Pharmacology and Physiology, Therapeutic Delivery, Langmuir, Journal of Biomedical Materials Research : Part B- Applied Biomaterials, Journal of Biomedical Nanotechnology, Biomedical Chromatography, Pharmaceutical Research, Expert Opinion on Drug Delivery, Gene Therapy, Journal of Lipids, International Journal of Pharmaceutical Sciences, Pharmaceutical Science & Technology Today, Journal of Pharmacy and Pharmacology, Biomaterials, European Journal of Pharmaceutics & Biopharmaceutics, Medicinal Research Reviews, American Journal of Drug Delivery, Current Medicinal Chemistry, AAPS PharmSci., Transactions in Biomedical Engineering, Journal of Drug Delivery Science and Technology, Journal of Rehabilitation Research & Development, Colloid and Polymer Science, Acta Biomaterialia, Molecular Membrane Biology, Journal of Tissue Engineering and Regenerative Medicine, Archives of Dermatological Research, Clinical, Cosmetic & Investigational Dermatology, Chemical and Engineering Journal, Transdermals, ACS Applied Materials and Interfaces, Advances in Pharmacy and Pharmacology, African Journal of Pharmacy & Pharmacology, Bioinspired, Biomimetic & Nanomaterials, Journal of Pharmaceutical Sciences and Pharmacology, Research & Reports in Transdermal Drug Delivery, Plos-One, Journal of Cosmetic Science, Environmental Science and Pollution Research.

Service to Universities (University and Departmental Committees)

Alternate Scientist Member of Rutgers South Campus Institutional Care and Use Committee (South Campus IACUC) (2023-2026).

Scientist Member of Rutgers Institutional Animal Care and Use (IACUC) Committee (2005-2023).

Member of the Graduate Faculty at the Ernest Mario School of Pharmacy, Rutgers-The State University of New Jersey (Busch Campus), 2000-present.

Member of the Educational Goals and Assessment Committee, Ernest Mario School of Pharmacy-Rutgers, 2005-present.

Member of the Faculty Pharm.D. Student Advising Program at the Ernest Mario School of Pharmacy, 2020-present.

Member, Rutgers Pharmacy Tenure and Promotion Committee Dept. of Pharmacy Practice, 2009-present.

Elected member of the Rutgers University Biomedical and Health Sciences (RBHS) Faculty Council representing the Ernest Mario School of Pharmacy, 2014 - 2019.

Member of Strategic Planning & Programmatic Development Committee of the Rutgers University Biomedical and Health Sciences (RBHS) Faculty Council, 2017- 2019.

Member of the Biological Sciences Area Committee of the Graduate School-New Brunswick, Spring 2013- 2017.

Member of Rutgers Biomedical & Health Sciences Strategic Planning Group on Drug Discovery, Development and Pharmacoepidemiology, 2014.

Member of Rutgers Strategic Planning Committee on “Envisioning Tomorrow’s University”, Fall 2013.

Member of the Executive Council, The Graduate School- New Brunswick, Rutgers- The State University of New Jersey, Fall 2011.

Member of the Accreditation Council for Pharmacy Education (ACPE) Self Study Working Group on Curriculum, Sept 2011- Sept 2012.

Member Graduate Student Admissions Committee, Ernest Mario School of Pharmacy-Rutgers (2009-2011).

Chair, Educational Goals and Assessment Committee, Ernest Mario School of Pharmacy-Rutgers (2008-2011).

Vice-Chair of Rutgers University-wide Animal Care and Facilities Committee (2006- 2007).

Leader of Project 2.6 Product Performance and Evaluation (involving faculty from 4 Universities), now Project C5 Drug Release from Complex Solids NSF Engineering Research Center C-SOC Center for Structured Organic Particulate Systems C-SOPS at Rutgers-The State University of NJ (2007-2018).

Member of the Leadership Committee of the NJ Center for Biomaterials (2000-2020).

Member of the Leadership Committee for the Center for Military Biomaterials Research (NJ Center for Biomaterials) (2000-2014).

Member of the 8th NJ Symposium on Biomaterials Science –Therapeutic and Diagnostic Applications of Biomaterials Symposium Organizing Committee (2005-2006).

Member of the Faculty Advisory Committee of the NJ Center for Biomaterials (2000-2020).

Member of the Graduate Faculty, NJ Institute of Technology, Biomedical Engineering Dept., Newark, NJ (2000-2005).

Member of NSF Innovation Partnership Program Intellectual Property Selection Committee, New Jersey Center for Biomaterials, Rutgers University (2000-2005).

Faculty Advisor and organizer for 1999 Graduate Research Association of Students in Pharmaceutics Annual Meeting at College of Pharmacy, University of South Carolina, Columbia, SC.

Member of the Graduate Faculty, Dept of Pharmacology and Physiology, UMDNJ-NJ Medical School, Newark, NJ (2000-2005).

Member of Graduate Faculty Committee at University of South Carolina (1988-2000).

Member of Graduate Faculty at Medical University of South Carolina (1994-2000).

Member of University of South Carolina (USC) Institutional Animal Care and Use Committee (1989-2000).

Member of USC Radiation Safety Committee (1990-2000).

Mentor for McNair Scholars at the University of South Carolina (undergraduates), (1999-2000).

Member of USC Sub-committee on “Report on Regulatory Interactions Between USC and DHEC” (part of Radiation Committee assignments) (1998-1999).

Library Representative to USC Thomas Cooper Library (1996-2000).

Member of USC Womens’ Mentoring Network (1993-1998).

Member of Golden Key Carolinian Creed Student Award Selection Committee (1996-1997).

Delegate to USC Faculty Senate (1994-1997).

Member of USC Undergraduate Research Committee (SPAR) (1994-1995).

Chair, Drug Delivery Center Feasibility Committee (1999-2000) at USC.

Chair, Tenure and Promotion Committee (1999-2000) at USC.

Chair, Library Committee (1996-2000) at USC.

Chair, Self-Study Library and Learning Resources Committee (1999-2000) at USC.

Self-Study Faculty Committee (1999-2000) at USC.

USC, College of Pharmacy Curriculum Committee (1998-2000).

Faculty Advisor, Self-Study Steering Committee Kappa Epsilon (1993-2000).

Chair, Post-tenure Review Committee at USC (1999-2000).

Chair, Faculty Annual Evaluation Committee at USC (1999-2000).

Chair, Search Committee for Chair of Basic Pharmaceutical Sciences, College of Pharmacy, USC (1998-1999).

Second Year Pharm.D. Curriculum Coordinating Subcommittee at USC College of Pharmacy (1996-2000).

Distance Education Admissions Committee at USC (1996-1998).

Distance Education Steering Committee at USC (1993-1996).

Long-range Graduate Planning Committee at USC (1993-1998).

USC Graduate Admissions Committee (1993-1998).

USC Integrated Laboratory Subcommittee of Curriculum Committee (1994-1999).

USC Student-Faculty Liaison (Grievance) Committee (1989-1998).

Chair, Pharmaceutics Subcommittee of Curriculum Committee at USC (1993-1998).

USC, College of Pharmacy Curriculum Steering Committee (1993-1998).

USC, College of Pharmacy Animal Care Committee (1990-2000) (Chair, 1990-1993)

Tenure and Promotion Committee at USC (1993-2000).

BPS Seminar Committee at USC (1996-1997, 1990-1991)

Pharm.D. Curriculum Committee at USC (1995-1996).

Chair, First-year Pharm.D. Curriculum Coordinating Subcommittee at USC (1995-1996)

Pharmacy Student Senate (ex-officio) at USC (1994-1995)

Rotations Subcommittee of Curriculum Committee (1994-1995)

Study Committee on Experimentation and Evaluation (1993-1994)

Biotechnology/antiviral/cancer Committee (1993-1994).

Pharmaceutical Industrial Liaison Committee (1991-1993).

USC/MUSC Joint Graduate Curriculum Committee (1992-1993).

Student Academic Responsibility Committee (1988-1992) (Chair, 1991-1992).

Graduate Recruitment Committee (1990-1992).

Ad Hoc Graduate Curriculum Committee (1990-1992).

Ad Hoc Examination Coordination Committee (1990-1992).

Chair, Equipment Purchasing Committee (1990-1991).

BPS Advisory Committee (1990-1991).

Pharmaceutics Curriculum Revision Committee (1987-1988).

Ad Hoc Committee on Computer Competency (1986-1987).

Memberships in Professional Societies

Royal Pharmaceutical Society of Great Britain (1981 - present).

American Association of Pharmaceutical Scientists (1987 - present).

Royal Society of Chemistry (2023- present).

American Chemical Society (1994 - present).

The Controlled Release Society (1992 - present).

Society of Cosmetic Chemists (2004- present).

American Nano Society (2011-2020).

American Pharmaceutical Association (1998 - 2010).

American Association of Colleges of Pharmacy (1989 - 2007).

The Society for Biomaterials (1998 - 2005).

South Carolina Academy of Sciences (1997 - 2000).

The Rho Chi Society, Beta Alpha Chapter (Pharmaceutical Honor Society). (Initiation date November 11, 1987).

Sigma Xi, The Scientific Research Society, Chapter 132 (elected May 18, 1993).

Kappa Epsilon Fraternity, Alpha Lambda Chapter. (Initiation date April 27, 1993). Faculty advisor while at USC.

Phi Lambda Sigma (Zeta Chapter): Pharmacy Leadership Society.

Bioengineering Alliance of South Carolina (1995-2000).

Honorary member of Golden Key Honor Society.

Funding History

Agency: DHHS/FDA/OAGS/DAO Firm Fixed Price Contract Number 75F40123C00213. “Role of excipients and excipient substitution in topical semi-solid formulations and their effect on product performance and quality”. P.I. B. Michniak-Kohn for total \$964,769.00 for 3 years. Sept., 2023- Sept, 2026.

Agency: Agentschap Innoveren & Ondernemen, Brussels, Belgium. Project Albert: Research on potential of new liposomal transdermal formulations. Grant No HBC. 2021.0968. Total funding 426,691.00 Euros with Purna Company, Brussels, Belgium. Rutgers University Subcontract to P.I. B. Michniak-Kohn for 3 years at total of \$395,954.00. July 2022-July 2025.

Agency: MSCA-RISE-Maria Skłodowska-Curie Research and Innovation Staff Exchange: MSCA-RISE 2017 Research and Innovation Staff Exchange. Topic MSCA-RISE 2017 Proposal No. 778051 “Open Research Biopharmaceutical Internships Support” European P.I. Janina Lulek, University of Poznan, Poznan, Poland. Includes Trinity College, Dublin, Ireland, Rutgers University, NJ, USA and University of Helsinki, Finland. Total funding EUROS 2,268,000.00 Rutgers P.I. B. Michniak-Kohn. Funded March 1, 2018 to August 31st 2023.

Agency: NIH/FDA Small Business Innovation Research (SBIR) Phase II Grant No. 2R44FD005345-02. Title “A multiscale simulation toolkit for computational pharmacology of trans/intradermally administered compounds in healthy and diseased populations”. P.I. Mahadevabharath R. Somayaji,

Computational Medicine and Biology Division, CFD Research Corporation, Huntsville AL. Co P.I. B. Michniak-Kohn for total \$120,000 for 2 years. Sept. 1st, 2019- March 31st, 2022.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2024 ONE-day 12th symposium “Future of Dermatologicals and Cosmeceuticals” (remote) of the Center for Dermal Research CDR www.centerfordermalresearch.org. September 24th, 2024. Donation received of \$25,000. Total funding with sponsorships \$XXXXX-Rutgers University Foundation.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2023 TWO-day 11th symposium “Future of Dermatologicals and Cosmeceuticals” (remote) of the Center for Dermal Research CDR www.centerfordermalresearch.org. September 27 and 28th, 2023. Donation received of \$25,000. Total funding with sponsorships \$61,060.00-Rutgers University Foundation.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2022 TWO-day 10th symposium “Future of Dermatologicals and Cosmeceuticals” (remote) of the Center for Dermal Research CDR www.centerfordermalresearch.org. September 28 and 29th, 2022. Donation received of \$25,000. Total of all donations from industrial sponsors \$55,200.00 -Rutgers University Foundation.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2021 TWO-day 9th symposium “Future of Dermatologicals and Cosmeceuticals” (remote) of the Center for Dermal Research CDR www.centerfordermalresearch.org. Celebration of 10th Anniversary of Center for Dermal Research CDR. Dates: September 28 and 29th, 2021. Donation received of \$25,000. Total of donations from all industrial sponsors \$72,730.00 -Rutgers University Foundation.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2019 TWO-day 8th symposium “Future of Dermatologicals and Cosmeceuticals” of the Center for Dermal Research CDR www.centerfordermalresearch.org. Dates: September 9 and 10th, 2019. Donation received of \$25,000. Total donations received from all sponsors \$89,100.00 -Rutgers University Foundation.

Agency: Gaylord Chemical Company, LLC. Investigation of solvent effects on herbicide transdermal skin penetration in vitro. Total funding \$72,057.00 October 2023-October 2024.

Agency: BASF, NJ. Investigation of microemulsions for dermal delivery of diclofenac with different permeation enhancers. Total funding \$25,000 July 2022-Sept 2024.

Agency: BASF, NJ. Effect of different emulsifiers incorporated into adapalene-containing liposomal formulations (transferosomes) on drug retention in vitro. Total funding \$25,000 July 2022-Sept 2024.

Agency: Vantage Group, NJ. Investigation of dermal delivery of benzoyl peroxide from topically applied formulations in vitro. Total funding \$13,580.00. Jan 2024-Dec.2024.

Agency: Prestige Consumer Healthcare /MedTech Holdings. Skin permeation of a fast-absorbing gel. Total funding \$22,836 Sept. 2022-June 2023.

Agency: Estee Lauder, Inc. NJ. Skin permeation study of actives using Franz diffusion cell techniques and microneedle studies. Total funding \$245,364. Sept. 2018-Dec. 2022.

Agency: Aspire LLC, US. In vitro permeation testing (IVPT) of formulations in human gastrointestinal membranes. Total funding \$27,000. June 2021-June 2024.

Agency: Vascarta, US. Quantitation of curcuminoids in human cadaver skin using confocal microscopy. Total funding \$10,650. April 2021-April 2022.

Agency: Estee Lauder, Inc. NJ. Assessing adhesion behavior of biomaterials with skin and/or extracellular matrix using QCM-D techniques (Phase I to Phase ID). Total funding \$84,074. Jan 2021 – July 2023.

Agency: Halsa Provitamin Company, St. Charles, IL. Human skin study in vitro using prodrugs of 5,6-isopropylidene-L-ascorbic acid and L-ascorbic acid. Total funding \$12,130.00. September 15, 2021-January 1, 2023.

Agency: Rutgers University Vice Chancellor for Research & Innovation Team Proposal Development Grant. Smart Bandages to treat chronic wounds. PIs Francoise Berthiaume & Aaron Mazzeo, total funding \$74,848.66. Dates: October 1st, 2019- September 30th, 2020.

Agency: Silab, Inc., NJ & France. Silab Face Mask Study Phase I. Total funding \$102,424.00. Dates: July 1st 2019-Dec. 31st 2020.

Agency: Amneal Pharmaceuticals, NJ. IVPT studies using human cadaver skin and selection of topical drugs. Total funding \$30,018.00. Dates: June 30th 2020-July 1st, 2023.

Agency: Changzhou Huajia Medical Device Ltd., Shanghai, China. Evaluation of iontophoretic delivery of various drugs transdermally using a novel device. Total funding: \$20,100 for Phase I. Dates: April 15, 2020-February 15, 2023.

Agency: Rodan and Fields, LLC, CA. Retinaldehyde dermal delivery study. Total funding \$33,480. April 30, 2019- April 29, 2020.

Agency: Medisca Pharmaceutique Inc., St-Laurent, Canada. Skin permeation of a combination of six pharmaceutical actives from topical formulations for pain management. Total funding \$58,000.00 + \$1800.00 amendment. Dates: June 1, 2018 - May 31, 2019.

Agency: 5071 Inc./Caliper Inc., Colorado. Investigation of CBD formulations and skin permeation in vitro. \$25,954.34. July 7, 2020- Dec. 31, 2021.

Agency: Sannova Analytical Inc. NJ. Comparison of three adhesives in transdermal patches using oxybutynin as a model drug. Total funding \$ 12,510.00. Dates: October 15, 2018- October 14, 2019.

Agency: Aurinia Pharmaceuticals, Inc., Victoria, BC, Canada. Topical delivery of voclosporin to skin layers using novel drug delivery approaches. Total funding \$13,950. September 17, 2018 - December 31, 2018. Co-Investigator.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2018 TWO day 7th symposium “Future of Dermatologicals and Cosmeceuticals” of the Center for Dermal Research CDR www.centerfordermalresearch.org. Dates: October 8-9, 2018. Donation received of \$25,000. Total donations received from all sponsors \$80,000 -Rutgers University Foundation.

Agency: DOD SBIR#HDTRA 1-17-P-0003 “Dermal Medical Countermeasures for Chemical Weapons Exposure”, 01/12/17-07/11/17. Total: \$ 99,970 to Zymeron Corporation. P.I. Michael Liu (Zymeron); Subcontractor P.I. B. Michniak-Kohn (Rutgers), \$30,001 for Phase I (30% of the total).

Agency: NSF Proposal Award # EEC-0540855 C-SOC Center for Structured Organic Particulate Systems C-SOPS, 07/01/2006 – 06/30/2016. P.I. Muzzio, F. Total: \$15,000,000 from NSF and over \$150,000 industrial funds. P.I. Michniak-Kohn with total direct for 2010-2013 of \$475,000. For 2014 \$150,000 and \$150,000 for 2015.

Agency: NSF AIR “Industry Academia Research Partnership for Developing and Implementing Non-Destructive Characterization and Assessment of Pharmaceutical Oral Dosages in Continuous Manufacturing Processing” P.I. Cuitino. 07/01/2012-07/01/2015. Total \$800,000 from NSF with additional match from Johnson & Johnson for a total of \$1,600,000. Michniak-Kohn with total of \$85,000 direct annually.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2017 TWO day 6th symposium “Harnessing the Skin Microbiome” of the Center for Dermal Research CDR www.centerfordermalresearch.org. Dates: October 2-3, 2017. Donation received of \$20,000.

Agency: Rutgers University Center for Dermal Research CDR at NJ Center for Biomaterials www.centerfordermalresearch.org. The Center was founded March 2011 and is funded from industrial membership monies. Donation received of \$100,000 for running annual event on “Innovations in Dermatological Sciences” 2013-2015 see below. Average of 20 -25 member companies plus 10-15 Individual CDR members.

Agency: David M.C. Ju Foundation “Innovation in Dermatological Sciences” 2016 TWO day 5th anniversary of the CDR symposium of the Center for Dermal Research CDR “Delivery of Actives to Skin” www.centerfordermalresearch.org. Dates: September 29 and 30th, 2016. Total gift to NJ Center for Biomaterials/ Center for Dermal Research of \$25,000. **Total sponsorship** from companies received for the two-day “Innovations in Dermatological Sciences: Delivery of Actives to Skin” symposium at Marriott Renaissance Woodbridge NJ Sept 29 and 30th, 2016 was \$72,000 with over 200 attendees.

Agency: David M.C. Ju Foundation Innovation in Dermatological Sciences 2015 one day symposium of the Center for Dermal Research www.centerfordermalresearch.org. Dates: November 2015. Total gift to NJ Center for Biomaterials/ Center for Dermal Research CDR of \$25,000.

Agency: David M.C. Ju Foundation Innovation in Dermatological Sciences 2013 and “Innovations in Dermatological Sciences” 2014 one day symposia of the Center for Dermal Research www.centerfordermalresearch.org. Dates: November 19th 2013, October 8th, 2014. Total gift to Rutgers University of \$100,000 (2013-2015).

Agency: Seiberg Consulting, LLC, NJ. Studies on skin effects of formulations: MTT assays, levels of Interleukin-1 alpha and retinoids. Feb-June 2018 for a total of \$30,738.00.

Agency: Solaris Pharma, Bridgewater, NJ. Cream formulation phase separation studies. Jan-Feb 2018 for a total of \$1200.00.

Agency: Cormedix, Inc. Skin permeation of taurolidine. P.I. B. Michniak-Kohn Total \$154,923.00. Project dates: 10/31/2016-11/01/2019.

Agency: Croda, Inc. Terbinafine skin permeation studies. P.I. B. Michniak-Kohn. Total direct \$23,215.00. Dec. 2014-July 2016 and project still continuing. Additional funding \$22,702.00 until Feb. 2018.

Agency: Company X undisclosed, NJ. Model In Vitro Sweat Gland for Antiperspirant Active Mode of Action. P.I. B. Michniak-Kohn. Total \$50,000. November 2015-March 2018.

Agency: EMD Millipore, MA. Evaluation of polymeric membranes and Strat-M as skin drug permeability membranes: comparisons with human skin. P.I. B. Michniak-Kohn. Dec. 2009-Sept 2015. Total \$23,000.00 and project still continuing. Additional funding \$25,000 Dec. 2017.

Agency: Lupin Inc. In vitro skin diffusion study of cream and gel formulations. P.I. B. Michniak-Kohn. Direct \$7200.00. 09/15/2016-09/14/2017.

Agency: Presperse, Somerset, NJ. Characterization of personal care powders. P.I. B. Michniak-Kohn. Direct \$4000. 09/15/2016-09/14/2017.

Agency: Johnson and Johnson, NJ. "In Vitro Skin Permeation Study of OTC Actives". P. I. B. Michniak-Kohn. Total direct \$25,000.00 (January 2014-December 2016).

Agency: Glaxo Smith Kline GSK, NJ. "Tyrosphere approach for sustained delivery of diclofenac in skin" P.I. Michniak-Kohn and total funding \$87,575.00. 02/01/2016 to 01/31/2017.

Agency: Lubrizol Advanced Materials, Inc. OH. "In Vitro Skin Permeation Studies: Salicylic acid, diclofenac and lidocaine". P.I. B. Michniak-Kohn. Total direct \$49,185.00. November 2014-December 2016.

Agency: Chattem, Inc. (Sanofi), TN/Primera Corporation, NJ. "Dimethicone penetration into skin". P.I. Michniak-Kohn. Total funding \$139,890.00. February –August 2016.

Agency: Lonza Consumer Care, NJ. "Investigation of skin penetration of carnitine from formulations" P.I. B. Michniak-Kohn. Total direct \$36,000.00. July 2015.

Agency: Chattem, Inc./Sanofi, TN & Primera Corporation, Princeton, NJ. "Investigation of Concentrations of Actives in Skin Layers". P. I. Michniak-Kohn. Total direct \$21,450.00. Feb. 2014-July 2016.

Agency: Pocono, LLC, NJ. "Caffeine and Vitamin D3 transdermal drug delivery release and skin permeation studies" 05/15/2012-10/01/2015. Total direct of \$8554.00.

Agency: Acumen Biopharma LLC, NJ. "Testing of viscosity and dissolution characteristics of PEO formulations". 01/13/2014- 03/12/2014. Total direct \$46,800.00 P.I.s Muzzio, F., Takhistov, P. and Michniak-Kohn, B. - Michniak-Kohn with total funding of \$14,400.00.

Agency: ConnecTiss, Inc., Clemson, SC. "Skin Permeation Test of Cosmetic Formulations". P.I. B. Michniak-Kohn. Total direct: \$4800.00. October – Dec. 2014.

Agency: Avon Products, NY: "SAR Relationships for Skin Actives". P. I. B. Michniak-Kohn. Total direct: \$15,000. June 2013-June 2014.

Agency: Acumen Biopharma LLC, NJ. "Dissolution testing of multiple potencies of Guanfacine HCl tablets under acidic and other pH values". 01/13/2013- 03/12/2013. P.I. Michniak-Kohn with total funding of \$15,062.90.

Agency: Bionex Pharmaceuticals, LLC. "Franz Diffusion Cell Study on a Series of Formulations". P. I. Michniak-Kohn. Direct \$1672.00. December 2013.

Agency: Amneal Pharmaceuticals, Branchburg, NJ. Permeation study of novel diclofenac formulations using human skin Phase II and testing of testosterone topical gels. 02/01/2013-12/01/2013. P.I. B. Michniak-Kohn with direct funds of \$14,048.00.

Agency: NIH R01 AR056079-01 "Nanospheres as Delivery Vehicles for Psoriasis Therapeutics", 08/01/08-07/31/12. Total: \$ 973,137. Co-Principal Investigator with L. Sheihet.

Agency: NIH R01 AR056079-01 "Nanospheres as Delivery Vehicles for Psoriasis Therapeutics", additional Supplement, 04/01/2009-03/31/2010. Total: \$30,000. Co-Principal Investigator with L. Sheihet.

Agency: Amneal Pharmaceuticals, Branchburg, NJ. Permeation study of novel diclofenac formulations using human skin Phase I. 10/01/2012- 12/01/2012. P.I. Michniak-Kohn with direct funds of \$5177.

Agency: Lipochemicals, Inc., Patterson, NJ. "Evaluation of the cytotoxicity of ethyl lauroyl arginate HCl in Balb/c3T3 cell line", 06/01/2012- 08/01/2012. P.I. Michniak-Kohn with direct funds of \$5843.

Agency: Polytherapeutics, Inc. and NorthStar Partners LLC, Westport CT "Diphenhydramine study and PharmaDur gels", 07/01/2012-08/31/2012. P.I. Michniak-Kohn with total funds of \$9780.

Agency: Gibson, Dunn & Crutcher, LLP, New York, NY. Tretinoin gel release study", 06/15/12-07/15/12. P.I. Michniak-Kohn with direct funds of \$5140.

Agency: ProPhase Laboratories, Doylestown, PA. Phusion Lidocaine Study, 12/01/2011-02/15/2012. P.I. Michniak-Kohn with direct funds of \$ 14,415.

Agency: Acumen Biopharma LLC, NJ. Testing dissolution performance of a tablet containing esomeprazole (20mg) and naproxen (375 and 500 mg). 12/04/01- 12/06/15. P.I. Michniak-Kohn with total funding of \$25,280.64.

Agency: Lipochemicals, Inc., Patterson, NJ. Evaluation of the chemotoxic potential of Lucuma seed extract in Balb/c3T3 cell line, 02/01/2011- 06/01/2011. P.I. Michniak-Kohn with direct funds of \$3986.

Agency: NIH R43 AA018894-01 "Oral transmucosal drug delivery system for naltrexone for alcohol dependence treatment" 09/30/09- 06/30/10. \$165,511 total funding. Total for Rutgers subcontract- P.I. Michniak-Kohn: total \$ 23,821.00. Direct \$16,448. Submitted with Bionex Pharmaceuticals, LLC, Princeton NJ.

Agency: NSF "Acquisition of a solid-state NMR instrument at Rutgers University for research and teaching activities in New Jersey area". 02/01/2010- 02/02/2013. \$500,000. Co-Principal Investigator with Garfunkel, E., Asefa, T., Greenblatt, M., Jordan, F.

Agency: Pfizer/Capsugel "Optimization and control of microdispensing of liquids and suspensions into hard capsules". 6/1/09-5/31/10. Direct \$250,000. Co-Principal Investigator with F. Muzzio and P. Takhistov.

Agency: Lipochemicals, Inc., Patterson NJ. "Cytotoxicity Evaluation of Natural Compound Formulations", 11/30/2009-03/30/2010. P.I. Michniak-Kohn with direct funds of \$5000.

Agency: Fundacao para a Ciencia e a Tecnologia (Foundation for Science & Technology) of the Government of Portugal Fellowship and Science grant for graduate student Sergio Silva. Michniak-Kohn P.I. for total direct of \$32,000, 1/1/10-12/31/10.

Agency: U. S. Army Natick/DARPA, Contract # W91A2K-6249-9050, 12/11/06-06/30/10, "A Pharmacokinetic Study on Quercetin in Healthy Human Subjects", Michniak-Kohn is P.I. Total \$429,234.

Agency: Polytherapeutics, Inc. Bridgewater, NJ. "PharmaDur Diclofenac Study" 10/01/09-09/30/10. Michniak-Kohn is P.I. with total \$39,651.00- total direct 10,633.

Agency: NIH R43 DA025351-01 "Oral transmucosal drug delivery system for nicotine" 08/01/08-04/30/09. Total funding \$117,968.00. Total for Rutgers subcontract- P.I. Michniak-Kohn: total \$22,001.00. Direct \$15,243. Submitted with Bionex Pharmaceuticals, LLC, Princeton NJ.

Agency: Fundacao para a Ciencia e a Tecnologia (Foundation for Science & Technology) of the Government of Portugal Fellowship and Science grant for graduate student Sergio Silva. Michniak-Kohn P.I. for total direct of \$15,500, 7/1/09-1/1/10.

Agency: US Army Medical Research & Materiel Command, Telemedicine & Advanced Technology Research Center (TATRC), Contract # W81XWH-04-2-0031, 08/01/08-01/01/10, "Development of a Human Skin Equivalent". Michniak-Kohn is P.I. with total \$150,000 direct.

Agency: US Army Medical Research & Materiel Command, Telemedicine & Advanced Technology Research Center (TATRC), Contract # W81XWH-04-2-0031, 08/01/07-07/01/08, "Development of a Human Skin Equivalent". Michniak-Kohn is P.I. with total \$75,000 direct.

Agency: Lipochemicals, Inc., Patterson NJ. "Cytotoxicity Evaluation of Powder Formulations", 09/30/2008-09/29/2009. P.I. Michniak-Kohn with direct funds of \$8000.00.

Agency: Fundacao para a Ciencia e a Tecnologia (Foundation for Science & Technology) of the Government of Portugal Fellowship and Science grant for graduate student Sergio Silva. Michniak-Kohn P.I. for total direct of \$54,133.00, 7/1/08-1/1/09.

Agency: Advanced Research & Development Institute, South Carolina Research Authority, Proposal log # NSRDEC ER 08-02, Award # W911QY-07-C-0033. Development of curcumin, muscadine, quercetin, and caffeine as natural food additives to delay fatigue and enhance physical stamina and mental alertness, P.I. Gangemi, D. \$994,000 for 2 years. Michniak-Kohn is Consultant for \$10,000.

Agency: Lipochemicals, Inc., Patterson NJ. "Antioxidant Activity and Toxicity of p-Hydroxycinnamic Acid in Skin Cell Cultures", 07/01/2008-12/31/2008. P.I. Michniak-Kohn with direct funds of \$8520.00.

Agency: New Jersey Center for Biomaterials, Industrial Membership Program, 06/01/02-06/30/09, 25 companies at \$5000 each, total \$125,000 annually, direct (no overhead) for a total of \$875,000. Principal Investigator and Director of Program. Monies used for company educational programs, website enhancement, recruitment of new member companies, workshops, honoraria, and symposia sessions.

Agency: Millipore Corporation, Development of a synthetic membrane for transdermal testing, 04/01/08-12/31/08. Michniak-Kohn is P.I. Total \$12,994, direct \$8410.

Agency: New South Wales (Australia) Cancer Institute 2007 “Novel Gene-Targeted Therapies for Basal Cell Carcinoma”. 03/29/07-04/01/12. P.I. is Khachigian, L. Michniak-Kohn listed as Associate Investigator I on study. Direct \$20,000.

Agency: US Army Medical Research & Materiel Command, Telemedicine & Advanced Technology Research Center (TATRC), Contract # W81XWH-04-2-0031, 08/01/06-07/01/07, “Development of a Human Skin Equivalent”. P.I. with total \$72,843 direct.

Agency: US Army Medical Research & Materiel Command, Telemedicine & Advanced Technology Research Center (TATRC), Contract # W81XWH-04-2-0031, 08/01/03-07/01/06, “Development of a Human Skin Equivalent”. P.I. with total \$176,423 direct.

Agency: RESBIO Integrated Technologies for Polymeric Biomaterials, NIH subcontract from Rutgers University NIH P41 EB 001046-2 “Water Uptake and Diffusion in Polymers”, 01/12/04-07/11/06, Direct \$35,387; total \$39,257.

Agency: NSF-NIH IGERT “Nanopharmaceutical Engineering and Science”, 09/01/2005-09/01/2010. Michniak-Kohn is Participating Faculty. P.I. Muzzio, F. Rutgers, Chemical Engineering, Total: \$3.5 million.

Agency: Lipochemicals, Inc., Patterson, NJ. “Antioxidant Activity and Toxicity of p-Hydroxycinnamic Acid in Skin Cell Cultures”, 05/01/2007-12/01/2008, P.I. with direct \$27,000.

Agency: NexMed (U.S.A.) Inc., “Comparison of the in vitro permeability of two formulations of alprostadil cream (Vitaros 0.2 and 0.3% alprostadil) vs. Befar (0.4% alprostadil) cream through various biological membranes”, 03/15/2007- 09/14/2007. Total \$35,000 [\$20,000 plus supplies \$15,000]. P.I. on project.

Agency: Nuvo Research, Inc., Canada “In vitro penetration studies with diclofenac sodium topical formulations”. 10/1/05-10/1/06, direct \$30,560. P.I. on study.

Agency: Apogee Technologies, Inc. “Drug Delivery Testing Using a Microneedle Approach”. 7/1/05-7/1/06. Direct: \$50,000. P.I. on study.

Agency: Lipochemicals, Inc., Patterson, NJ. “Drug Release and Delivery of Hydroxycinnamic Acid to the Skin”, 03/31/06-04/30/06, direct \$3250. P.I. on study.

Agency: US Army Natick Soldier System Center, 01/01/02-07/01/05, “Novel cellular and small animal models to selectively screen for functional foods and dietary supplements which delay fatigue and enhance physical stamina and mental alertness”. Total for subcontract from Clemson University to UMDNJ \$199,495, direct \$127,067. P.I. Gangemi, D. Total: \$846,000. P.I. on UMDNJ Subcontract.

Agency: Lipochemicals, Inc., Patterson, NJ. “Drug release and delivery of selected agents for treating hyperpigmentation in skin”, 05/01/04-08/01/04, direct \$3500. P.I. on study.

Agency: Lipochemicals, Inc., Patterson, NJ. “Skin Penetration Profile of a Novel Lamellar Drug Delivery System”, 02/15/05-31/7/05, direct \$6000. Funded. P.I. on study.

Agency: National Science Foundation, NSF 00-82, DUNS #001912864, 6/1/01-5/31/03 “Models for Better Academic-Industrial Partnerships to Create Value from Concepts.” Total \$599,344. Michniak-Kohn was Co- P.I. Total \$49,014, direct \$31,220.

Agency: NIH Grant # 1 R01 AR47303-01-A1 Aug 1, 2002-March 31, 2003 “Dermatoremiation of Iron Overload.” P.I. L. Milstone, Yale University. P.I. on subcontract, total \$13,350, direct \$8585.

Agency: Avon Products, Inc., 01/01-03-12/31/03 “Investigation of skin permeation pathways using biological and computational methods” P.I. with total \$20,000.

Agency: MatTek Corporation, Ashland, MA, 09/01/01-03/02/02, “Optimization of Epiderm and drug permeability testing”. Total \$25,515, direct \$ 18,900. Funded-Principal Investigator.

Agency: MatTek Corporation, Ashland, MA, 03/02/01-09/02/02, “Optimization of Epiderm and drug permeability testing”. Total \$25,515, direct \$ 18,900. Funded-Principal Investigator.

Agency: Hexal GmbH (Germany)/ Penn State, 01/02/02-01/03/03, “Novel treatment of human papilloma virus using a topically applied antisense oligonucleotide”, Total \$126,299 direct \$99,545. Principal Investigator on Subcontract.

Agency: Diamond Springs Dental Associates P.C., 01/15/02-01/14/03, “Delivery mechanism and protective agents to the teeth and gums”. Total for Phase I: \$13,900. Phase I Co-Principal Investigator.

Agency: Schering-Plough Healthcare Products, 01/31/02-04/30/02, “Evaluation of topical formulations of salicylic acid”. Total \$11,500. Funded-Principal Investigator.

Agency: New Jersey Commission on Science and Technology, 06/01/01-01/31/02, “Development of an in vivo delayed healing system to study local percutaneous delivery of vasoactive substances for the prevention and treatment of chronic leg ulcers”. Direct \$40,000. Funded- Principal Investigator.

Agency: NIH Training Grant # 1-T32-HL07942-01, 09/01/00- 08/31/05 “Postdoctoral Training in Tissue Engineering and Implant Science”, \$939,066. Funded-Participating Faculty.

Agency: University of South Carolina, College of Pharmacy, Columbia SC, 07/01/00-06/30/02, “Support of Graduate Student Mohammad El-Khalili”, direct \$50,000. Funded-Principal Investigator.

The Fullerton Foundation, Inc.; “Surface Engineering in Medicine: Toward improving patient care and implant performance by bridging engineering, basic science, pharmacy, and clinics.” Funding for an Electron Spectroscopy for Chemical Analysis (ESCA) for State of South Carolina. 1999-2001. \$300,000. Matching Funds: Clemson University, Clemson, SC. \$250,000. Co-investigators: Laberge, M., Dooley, R.L., Friedman, R.J., and Draughn, R.A.

Kimberly Clark Corp., Roswell, GA. Multiple research contract relating to the percutaneous absorption of topically applied compounds: metals, sunscreens and steroids. 1997-2000. \$373,000.

Isis Pharmaceuticals, Inc., Carlsbad, CA. Multiple research contracts relating to the formulation of antisense oligonucleotide ISIS-2302 and/or formulation of delivery systems for psoriasis. 1997-2000. \$142,140.

New Jersey Commission on Science and Technology and Kimberly Clark Corp. “Validation of a Novel Bioengineered Human Skin as a Model for Inflammation.” 2000-2001. \$50,000.

Industrial contract research for several agencies (Chemdal Corp., Arlington Heights, IL; MatTek Corp., Ashland, MA; Roche Discovery, Welwyn Garden City, United Kingdom; South Carolina Cancer Center,

Bone Marrow Transplantation Unit, Richland Memorial Hospital, Columbia, SC). 1997-2000. Total funding: \$46,129.

Donations and In-Kind matching gifts at University of South Carolina received from 1997-2000. \$379,000.

Donation from Schering Plough, NJ, Hanson automated diffusion cell modules in 2004, \$50,000.

Major Administrative Responsibilities

Director & Founder, Center for Dermal Research, Rutgers-The State University of NJ, Piscataway, NJ 08864. CDR offers annual conferences, workshops, CDR Seminar series, training and networking events. See www.centerfordermalresearch.org. (March 2011- present).

Director of the Laboratory for Drug Delivery at Rutgers, The State University of New Jersey, Busch campus, Piscataway NJ (2000-present). See michniaklab.org.

Faculty Director of the Industrial Membership Program of the NJ Center for Biomaterials (2001-2011).

Member of the Industrial Advisory Steering Committee of NJ Center for Biomaterials (2001-2011).

Project Leader (Project 2.6 Product Performance and Evaluation Now Project C5), FDA Liaison & Member of Leadership Steering Committee of Engineering Research Center for Structured Organic Particulate Systems (2006-2017).

Director of Transdermal/Topical Drug Delivery Laboratory, College of Pharmacy, University of South Carolina (1998-2000).

PUBLICATIONS

Research Articles (peer-reviewed)

- 1) **Michniak, B.** Recent advances in antiperspirant research. *Cosmetic Technology* (1980) 2, (11), 34-39.
- 2) **Michniak, B.** Do we undervalue the importance of pharmacy management courses at the undergraduate level? *J. Institute Pharm. Manag. Int.* (1980) 2, (1), 12-13.
- 3) **Michniak, B.** Studies on the mechanism of topical anhidrosis due to polyvalent cations. *Inter. J. Cosm. Sci.* (1981) 3, (1), 29-36. Paper received "1981 Best Publication Prize" from the Society of Cosmetic Scientists. PMID 19469924.
- 4) **Michniak, B.** Perspiration, antiperspirants and deodorants. *Pharm. J.* (1982) 228, 452-453.
- 5) **Michniak, B.** Pharmacy management courses in the United States: a study. *J. Institute Pharm. Manag. Int.* (1982), 4, (3), 12-13.
- 6) **Michniak, B.** Advances in topical corticosteroid therapy. *Int. J. Cosm. Sci.* (1983) 5, (6), 277-291. PMID 19469995.
- 7) **Michniak, B.** A new approach to assessing sweat production. *Int. J. Cosm. Sci.* (1983), 5, (6), 267-275. PMID 19469994.

- 8) **Michniak-Mikolajczak, B.** Sweat production in the isolated rat eccrine sweat gland. *Brit. J. Derm.* (1984), 111 (3), 309-314. PMID 6383449.
- 9) **Michniak-Mikolajczak, B.** Investigation of the presence of intercellular canaliculi in human and rat eccrine sweat glands. *Patalogia Polska (in English)* (1984) 35 (4) 517-522.
- 10) **Michniak, B.** Investigation of sweat production in the isolated rat eccrine sweat gland. *Pat. Pol. (in English)* (1984) 35 (2), 231-238.
- 11) **Michniak-Mikolajczak, B.** Dermatological preparations: problems of efficacy. *College of Pharmacy Practice Corresp. J.* (1984) 4, 9-13.
- 12) **Michniak-Mikolajczak, B.** Skin: Nature's barrier to topical preparations? *College of Pharmacy Practice Corresp. J.* (1984), March (3), 20-21.
- 13) **Michniak-Mikolajczak, B.** Bodor, N. A study of the penetration of five novel synthetic steroids through hairless mouse skin in vitro. *Int. J. Cosm. Sci.* (1985) 7, 175-179. PMID 19460025.
- 14) **Michniak-Mikolajczak, B.** An in vitro investigation of the astringency property of certain anhidrotic solutions. *Polish J. Pharmac. Pharm. (in English)* (1985) 37, 141-145. PMID 4048009.
- 15) **Michniak-Mikolajczak, B.,** Barry, B.W., Waller, I.L. A microbalance technique for measuring water vapour uptake and release by stratum corneum in vitro. *Int. J. Pharm.* (1986) 31, (3) 247-260.
- 16) **Michniak, B.B.,** Chapman, J.M. Comparison of percutaneous penetration in vitro using clofibric acid esters and amides as novel enhancers in two species: mouse and guinea pig. *Int. J. Cosm. Sci.* (1992), 14, 153-161. PMID 19272103.
- 17) **Michniak, B.B.,** Chapman, J.M., Seyda, K.L. Facilitated transport of two model steroids by esters and amides of clofibric acid. *J. Pharm. Sci.* (1993) 82, (2) 214-219. PMID 8445538.
- 18) **Michniak, B.B.,** Seyda, K.L. A simple and specific high liquid chromatography method for the assay of a series of novel dermal penetration enhancers. *Int. J. Cosm. Sci.* (1993) 15, 7-13. PMID 19272115.
- 19) **Michniak, B.B.,** Player, M.R., Chapman, J.M., Jr., Sowell, J.W., Sr. In vitro evaluation of a series of Azone analogs as dermal penetration enhancers I. *Int. J. Pharm.* (1993) 91, 85-93.
- 20) **Michniak, B.B.,** Player, M.R., Fuhrman, L.C., Christensen, C.A., Chapman, J.M., Jr., Sowell, J.W., Sr. In vitro evaluation of a series of Azone analogs as dermal penetration enhancers II. (Thio)amides. *Int. J. Pharm.* (1993) 94 203-210.
- 21) **Michniak, B.,** Chapman, J. Transdermal delivery of indomethacin and levonorgestrel using clofibric acid amides as penetration enhancers. *Drug Delivery* (1993) 1 (1) 35-41.
- 22) **Michniak, B.B.,** Player, M.R., Fuhrman, L.C., Christensen, C.A., Chapman, J.M., Jr., Sowell, J.W., Sr. In vitro evaluation of a series of Azone analogs as dermal penetration enhancers III. Acyclic amides. *Int. J. Pharm.* (1994) 110, 231-239.
- 23) **Michniak, B.B.,** Player, M.R., Chapman, J.M., and Sowell, J.W. Azone analogues as penetration enhancers: effect of different vehicles on hydrocortisone acetate skin permeation and retention. *J. Controll. Rel.* (1994) 32, 147-154.
- 24) **Michniak, B.B.,** Player, M.R., Godwin, D.A., Phillips, C.A., and Sowell, J.W., Sr. In vitro evaluation of a series of Azone analogs as dermal penetration enhancers IV. Amines. *Int. J. Pharm.* (1995), 116, 201-209.

- 25) **Michniak, B.B.**, Player, M.R., Godwin, D.A., and Sowell, J.W., Sr. Investigation of enhancer-structure activity relationships in congeners of 2-(1-nonyl)-1,3-dioxolane. *Drug Delivery* (1995) 2, 117-122.
- 26) Phillips, C.A. and **Michniak, B.B.** Topical application of Azone analogs to hairless mouse skin: a histopathological study. *Int. J. Pharm.* (1995), 125, 63-71.
- 27) Phillips, C.A. and **Michniak, B.B.** Transdermal delivery of drugs with differing lipophilicities using Azone analogs as dermal penetration enhancers. *J. Pharm. Sci.* (1995), 84 (12), 1427-1433. PMID 8748324.
- 28) **Michniak, B.** Beauty is only skin deep. *Cosmetic Horizons*, Jan. (1995), pp. 2 and 4.
- 29) **Michniak, B.** Skin aging and preventive treatment. *Cosmetic Horizons*, March (1995), pp. 2 and 4.
- 30) **Michniak, B.** Moisturizing and the skin. *Cosmetic Horizons*, April (1995), pp. 2 and 4.
- 31) **Michniak, B.**, Player, M.R., and Sowell, Sr., J.W. Synthesis of and in vitro transdermal penetration enhancing activity of lactam-N-acetic acid esters. *J. Pharm. Sci.* (1996), 85 (2), 150-154.
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- 33) Fuhrman, Jr., L.C., **Michniak, B.B.**, Behl, C.R., and Malick, A.W. Effect of novel penetration enhancers on the transdermal delivery of hydrocortisone: an in vitro species comparison. *J. Controlled Release* (1996) 45 (2), 197-204.
- 34) Hunter, D.A., Yoo, S.D., Fox, J.L., and **Michniak, B.B.** Stability of albuterol in continuous nebulization. *Int. J. of Pharmaceutical Compounding* (1998), 2 (5), 394-396. PMID 23989706.
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- 37) **Michniak, B.B.**, Player, M.R., Godwin, D.A., Lockhart, C.C., and Sowell, Sr., J.W. In vitro evaluation of a series of Azone analogues as dermal penetration enhancers. V. Miscellaneous compounds. *Int. J. Pharm.* (1998), 161, 169-178.
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- 39) Godwin, D.A. and **Michniak, B.B.** Influence of drug lipophilicity on terpenes as transdermal penetration enhancers. *Drug Develop. and Industrial Pharmacy* (1999) 25 (8), 905-915. PMID 10434134.
- 40) **Michniak, B.B.** Therapeutic protein, semisolid dosage forms and dermatopharmaceuticals. *IDrugs* (1999), 2 (1), 29-30. PMID 16180165.
- 41) Streckowski, L., Henary, M., Kim, N., **Michniak, B.** N- (4-bromobenzoyl)-S,S,-dimethyliminiosulfurane, a potent dermal penetration enhancer. *Bioorganic and Medicinal Chemistry Letters* (1999), 9,1033-1034. PMID 10230634.
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Biomedical Engineering Conference & 2nd International Conference on Ethical Issues in Biomedical Engineering, Clemson University, Clemson, SC. May 20-23, 1999. Critical Reviews in Biomedical Engineering (1999), 26,406-407.

- 43) Al-Khalili, M., Kim, N., and **Michniak, B.B.** Comparison between hairless mouse skin and hairless *Peromyscus Maniculatus* as in vitro skin models. 18th Southern Biomedical Engineering Conference & 2nd International Conference on Ethical Issues in Biomedical Engineering, Clemson University, Clemson, SC. May 20-23, 1999. Critical Reviews in Biomedical Engineering (1999), 26, 411-412.
- 44) El-Kattan, A. and **Michniak, B.B.** Effect of zinc sulfate formulations on the permeation of zinc in human cadaver skin. 18th Southern Biomedical Engineering Conference & 2nd International Conference on Ethical Issues in Biomedical Engineering, Clemson University, Clemson, SC. May 20-23, 1999. Critical Reviews in Biomedical Engineering (1999), 26, 410-411.
- 45) El-Kattan, A.F., Asbill, C.S., **Michniak, B.B.** The effect of terpene enhancer lipophilicity on the percutaneous permeation of hydrocortisone formulated in HPMC gel systems. International Journal of Pharmaceutics (2000), 198 (2), 179-189. PMID 10767567.
- 46) Kim, N., El-Khalili, M., Henary, M.M., Strekowski, L., **Michniak, B.** Percutaneous penetration enhancement activity of aromatic S,S- dimethyliminisulfuranes. International Journal of Pharmaceutics, 1999, 187, 219-229. PMID 10502628.
- 47) Asbill, C.A., Kim, N., El-Kattan, A., Creek, K., Wertz, P., **Michniak, B.B.** Evaluation of a human bioengineered skin equivalent for drug permeation studies. Pharmaceutical Research, 2000, 17 (9), 1092-1097. PMID 11087041.
- 48) Asbill, C.S., El-Kattan, A.F., **Michniak, B.B.** Enhancement of transdermal drug delivery: Chemical and Physical approaches. Critical Reviews in Therapeutic Drug Carrier Systems, (2000), 17 (6), 621-658. PMID 11204737.
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- 50) El-Kattan, A. and **Michniak, B.B.** Effect of formulation variables on the percutaneous permeation of ketoprofen from gel formulations. Drug Delivery, 2000, 7, 147-153. PMID 10989915.
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- 53) El-Kattan, A.F., Asbill, C.S., Kim, N., **Michniak, B.B.** The effect of terpene enhancers on the percutaneous permeation of drugs with different lipophilicities. International Journal of Pharmaceutics, 2001, 215, 229-240. PMID 11250108.
- 54) Wang, Y., Fan, Q., Song, Y., **Michniak, B.** Effect of fatty acids and iontophoresis on the delivery of midodrine hydrochloride and structure of human skin. Pharm. Research 2003, 20 (10), 1612-1618. PMID 14620516.

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- 61) Fan, Q., Sirkar, K.K., Wang, Y. and **Michniak, B.B.** In vitro delivery of doxycycline hydrochloride based on a porous membrane-based aqueous-organic partitioning system. *Journal of Controlled Release*, 2004, 98, 355-365. PMID 15312992.
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- 168) Kim, N., El-Khalili, M., **Michniak, B.B.** Differences in enhancing effect of aromatic S,S-dimethyliminosulfuranes on transdermal delivery of hydrocortisone: Effect of vehicles. 6th Annual Joint USC/MUSC Pharmaceutical Sciences Symposium, Charleston, SC, March 24th, 1999.
- 169) Asbill, C.A., Kim, N., **Michniak, B.B.** A novel bioengineered skin as a potential model for in vitro permeation studies. 6th Annual Joint USC/MUSC Pharmaceutical Sciences Symposium, Charleston, SC, March 24th, 1999.
- 170) El-Kattan, A. **Michniak, B. B.** Effect of solvents on limonene enhancing activity in HPC hydrocortisone gels. 19th Annual Meeting of the Graduate Research Association of Students in Pharmaceutics, Columbia, SC, May 28-30, 1999.
- 171) Khushalani, V.S., **Michniak, B.B.**, Mehta, R., Shah, J.C. Release kinetics of antisense oligonucleotide from a topical formulation. 19th Annual Meeting of the Graduate Research Association of Students in Pharmaceutics, Columbia, SC, May 28-30, 1999.
- 172) Kim, N. Asbill, C.A., **Michniak, B.B.** Bioengineered human full-thickness skin: in vitro model for transdermal penetration studies. 19th Annual Meeting of the Graduate Research Association of Students in Pharmaceutics, Columbia, SC, May 28-30, 1999. PODIUM SESSION.

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- 175) El-Kattan, A. **Michniak, B.B.** Effect of solvents and occlusion on limonene enhancing activity in HPC hydrocortisone gels. The 26th International Symposium on Controlled Release of Bioactive Materials, Boston, MA, June 20-25, 1999.
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- 179) El-Kattan, A., Guo, J., Uhrich, K., **Michniak, B.** Evaluation of unimolecular polymeric micelles as transdermal drug carriers. Annual Meeting of the American Association of Pharmaceutical Scientists, New Orleans, Nov. 14-18, 1999. Abstract # 1037.
- 180) Asbill, C.A., Effah Kaufmann, E., Kohn, J., **Michniak, B.** Proliferation of different cells on a series of polyarylate biodegradable polymers with free carboxylic acid groups. Annual Meeting of the American Association of Pharmaceutical Scientists, New Orleans, Nov. 14-18, 1999. Abstract # 4140.
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- 182) El-Khalili, M., Kim, N., D'Acunzo, F., Kohn, J., **Michniak, B.** Evaluation of novel PEG copolymers as potential transdermal penetration enhancers. Annual Meeting of the American Association of Pharmaceutical Scientists, New Orleans, Nov. 14-18, 1999. Abstract # 5142.
- 183) Khushalani V.S., **Michniak, B.B.**, Mehta, R.C., Shah, J.C. Effect of formulation factors on release of antisense oligonucleotide from topical formulation. Annual Meeting of the American Association of Pharmaceutical Scientists, New Orleans, Nov. 14-18, 1999. Abstract # 2536.
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- 190) El-Kattan, A., **Michniak, B.B.** Percutaneous permeation of zinc from non-woven fabrics impregnated with zinc sulfate monohydrate formulations using Epiderm. 6th World Biomaterials Congress, Kamuela, Hawaii, May 15-20, 2000.
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- 192) Kim, N., **Michniak B.B.** A mechanistic study of iminosulfuranes as potential skin permeation retardants/enhancers: vehicle effects. University of South Carolina Graduate Research Symposium, Columbia, SC, April 5th, 2000. PODIUM SESSION.
- 193) Asbill, C.S., El-Kattan, A., Kohn, J., **Michniak, B.B.** Proliferation of primary human fibroblasts and keratinocytes on polycarbonate and polyarylate biodegradable polymer films. The 5th New Jersey Symposium on Biomaterials Science, Nov. 9-10, 2000. PODIUM SESSION.
- 194) Asbill, C.S., Kim, N., El-Kattan, A., Wertz, P., **Michniak, B.B.** Lipid composition of a bioengineered human skin equivalent. 27th International Symposium on Controlled Release of Bioactive Materials, Paris, France, July 7-13, 2000.
- 195) El-Kattan, A. Asbill, C.S. **Michniak, B.B.** Zinc sulfate monohydrate percutaneous permeation: effect of HPC molecular weight and concentration. 27th International Symposium on Controlled Release of Bioactive Materials, Paris, France, July 7-13, 2000.
- 196) El-Kattan, A., Asbill, C.A., Kim, N. **Michniak, B.** Evaluation of the effect of terpene lipophilicity on the percutaneous permeation of salicylic acid, carbamazepine, and tamoxifen from HPC gel formulations. 27th International Symposium on Controlled Release of Bioactive Materials, Paris, France, July 7-13, 2000.
- 197) El-Kattan, A., Hutchins, B., Asbill, C. S., Kim, N., **Michniak, B.B.** Validation of an HPLC assay for the sunscreen 2-ethylhexyl trans-4-methoxycinnamate. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, Indianapolis IN, October 29-Nov 2, 2000.
- 198) Mehta, R.C., Stecker, K.K., Cooper, S.R., Myers, K.J., **Michniak, B.B.**, Hardee, G.E. Topical delivery and pharmacologic effects of antisense oligonucleotides on skin. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, Indianapolis, IN, October 29-Nov.2, 2000.
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- 200) Kim, N., El-Kattan, A., Asbill, C., Sowell, J.W. Sr., **Michniak, B.B.** The effect of ring size on enhancement activity of enhancers with different alkyl chain length. AAPS annual meeting, Indianapolis, IN., Oct. 29-Nov.2, 2000.
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- 209) Ocheltree, T.W., Shah, J.C., Mehta, R., **Michniak, B.B.** Epidermal and dermal delivery of an antisense oligonucleotide using liposomes and lipid complexes. The ACS Division of Colloid and Surface Science, Colloidal Drug Delivery Symposium, ACS Annual meeting, Orlando, FL, April 7-11, 2002. INVITED PODIUM SPEAKER.
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- 211) Bourke, S.L., Al-Khalili, M., Briggs, T., **Michniak, B.**, Kohn, J., Poole-Warren, L.A. Protein drug release from photocrosslinked poly(vinyl alcohol) hydrogels. Annual meeting for The Society for Biomaterials, Tampa, FL, April 24-27, 2002. PODIUM SESSION.
- 212) Al-Khalili, M., **Michniak, B.B.** The potential use of hairless *Peromyscus Maniculatus* as a model for skin permeation studies: comparison to hairless mouse and human cadaver skin and lipid analysis. AAPS Workshop "Critical Issues in the Design and Application of Polymeric Materials in Drug Delivery", Arlington, VA, Feb 28- March 1, 2002.
- 213) Bourke, S.L., Al-Khalili, M., Briggs, T., **Michniak, B.B.**, Kohn, J., Poole-Warren, L.A. Protein drug release from photocrosslinked poly(vinylalcohol) hydrogels. AAPS Workshop

- “Critical Issues in the Design and Application of Polymeric Materials in Drug Delivery”,
Arlington, VA, Feb 28- March 1, 2002.
- 214) Song, Y., Strekowski, L., **Michniak, B. B.** Percutaneous penetration enhancement activity of a series of aromatic dimethyliminosulfuranes on hairless mouse skin. AAPS Workshop “Critical Issues in the Design and Application of Polymeric Materials in Drug Delivery”, Arlington, VA, Feb 28- March 1, 2002.
- 215) Wallenstein, E.J., **Michniak, B. B.** Development of a bioengineered human skin for drug permeation studies. Presented at Simposio Internacional de Iniciacao Cientifica da Universidade de Sao Paulo (International Symposium of Scientific Initiative), University of Sao Paulo, Brazil, Nov 5-7, 2001. Poster and PODIUM SESSION.
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- 219) Wang, Y., Fan, Q., **Michniak, B. B.** The effect of Azone on the iontophoretic delivery of lidocaine hydrochloride. AAPS annual meeting, Toronto, Canada Nov 10-14, 2002. Poster R6053.
- 220) **Michniak, B. B.**, Al-Khalili, M., Effect of drug lipophilicity on the activity of dioxolanes and polyols as transdermal enhancers. AAPS annual meeting, Toronto, Canada. Nov 10-14, 2002. Poster R6068.
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- 229) Wallenstein, E., **Michniak, B.B.** Development and assessment of bioengineered human skin for drug permeation studies. The 6th New Jersey Symposium on Biomaterials Science, Somerset, NJ. Oct. 17-18, 2002. PODIUM SESSION.
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- 240) Song, Y., **Michniak B.B.** Improvements in barrier function of human bioengineered skin equivalent. AAPS annual meeting, Salt Lake City, UT. October 26-30, 2003.

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- 253) Song, Y., **Michniak, B.** Investigation of barrier function of human bioengineered skin equivalent. The 7th New Jersey Symposium on Biomaterials Science: Challenges and Opportunities for the Biomaterials Scientist, Hyatt Regency Hotel, New Brunswick, NJ Oct. 21-22, 2004.
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- 265) Fan, Q., Sirkar, K.K., **Michniak, B.B.** In vitro drug delivery based on a porous membrane –based aqueous-organic partitioning system. AAPS annual meeting, Nashville, TN, Nov 6-10, 2005. R6065.
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- 272) Fan, Q., Sirkar, K.K., **Michniak, B.B.** In vitro drug delivery based on a porous membrane –based aqueous-organic partitioning system. Biotech 2006: Imagine, Collaborate, Innovate. 6th Annual Joint Symposium of Biotechnology Council of NJ and Pennsylvania Bio., October 16-17, 2006.
- 273) Dayan, N. **Michniak, B.**, Batheja, P. Delivery to the skin from a unique lamellar delivery system. AAPS Annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. Poster # M1135.
- 274) Fan, Q., Sirkar, K., **Michniak, B.** Iontophoretic transdermal drug delivery system using a conducting polymeric membrane. AAPS Annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. Poster # M1150.
- 275) Thakur, R., Kaushik, D. Shah, K., **Michniak, B.** Formulation of a hydrogel-based system for transdermal delivery of NSAIDS. AAPS Annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. Poster # M1172.
- 276) Batheja, P., Dayan, N., **Michniak, B.** The use of Franz diffusion cells and tape stripping to determine skin penetration profile of a novel delivery system. AAPS Annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. Poster # M1174.
- 277) Thakur, R. Florek, C., Kohn, J., **Michniak, B.** Electrospun matrices for delivery of hydrophilic and lipophilic compounds. AAPS Annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. Poster # W5181.
- 278) **Michniak, B.** Challenges in overcoming the skin permeability barrier. Roundtable and Panel Member: Strategies and Technologies for Transdermal and Ocular Drug Delivery, AAPS Annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. INVITED SPEAKER.
- 279) Batheja, P., Dayan, N., **Michniak, B.** Lecithin-oleic acid lamellar delivery system for topical application. 8th Symposium on Biomaterials Science: Therapeutic & Diagnostic Applications of Biomaterials, New Brunswick, NJ, Nov. 8-10, 2006.
- 280) Thakur, R.A., Florek, C.A., Kohn, J. **Michniak, B.B.** Development of dual delivery matrices for simultaneous delivery of hydrophilic and lipophilic compounds. 8th Symposium on Biomaterials Science: Therapeutic & Diagnostic Applications of Biomaterials, New Brunswick, NJ, Nov. 8-10, 2006.

- 281) Valenzuela, L.M., **Michniak, B.**, Kohn, J. Water uptake variability due to polymer film heterogeneity. 8th Symposium on Biomaterials Science: Therapeutic & Diagnostic Applications of Biomaterials, New Brunswick, NJ, Nov. 8-10, 2006.
- 282) Batheja, P., Song, Y., **Michniak, B.**, Kohn, J. A bioengineered human skin equivalent (HSE) for the evaluation of protectants. 25th Army Science Conference, Orange County Convention Center, Orlando, FL, Nov. 27-30, 2006.
- 283) Chandra, P., Batheja, P., Florek, C. **Michniak, B.**, Kohn, J. Engineering a human skin equivalent using an electrospun poly(DTE carbonate) matrix as dermal scaffold. 2007 Society for Biomaterials Annual Meeting & Exposition, Chicago, IL, April 18-21, 2007. Poster # 854.
- 284) Valenzuela, L., Kohn, J. **Michniak, B.** Study of annealing in water uptake of polymer films. 4th Annual New Jersey Biomedical Engineering Showcase, March 9, 2007.
- 285) **Michniak, B.**, Thakur, R. and Shah, K. Enhancement of skin permeation of actives by a novel bioadhesive polymer delivery system. Society of Cosmetic Chemists Annual Meeting, May 10-11, 2007, Anaheim Marriott, Anaheim, CA. INVITED PODIUM presentation.
- 286) Valenzuela, L., **Michniak, B.**, Kohn, J. Method development for water uptake of polymer films using radiolabeled water. Methods in Bioengineering Conference, Kresge, MIT, July 12-13, 2007.
- 287) Lee, S., **Michniak, B.** Enhancing transdermal delivery of lidocaine hydrochloride via iontophoresis. 7th Annual Senior Design Conference in Biomedical Engineering, Rutgers University, Busch Campus, May 2007. PODIUM SESSION.
- 288) **Michniak, B.** Novel self assembling nanospheres for topical drug delivery applications. Poster 1.21 at Gordon Conference "Barrier Function of Mammalian Skin", August 5-10, 2007, Salve Regina University, Newport, RI.
- 289) Thakur, R., Florek, C., Kohn, J., **Michniak, B.** Novel Electrospun Wound Dressing With Anesthetic/Antibiotic Action. Poster M1381 at the AAPS Annual Meeting and Exposition, November 11-15, 2007, San Diego Convention Center, San Diego, CA.
- 290) Kaushik, D., **Michniak-Kohn, B.**, Vehicle-Enhancer and Vehicle-Retardant Effects on Percutaneous Permeation of DEET. Poster T3193 at the AAPS Annual Meeting and Exposition, November 11-15, 2007, San Diego Convention Center, San Diego, CA.
- 291) Batheja, P., Sheihet, L., Chandra, P., Devore, D., Kohn, J., **Michniak, B.** Tyrosine-Derived Nanospheres for Delivery to Skin. Poster T3200 at the AAPS Annual Meeting and Exposition, November 11-15, 2007, San Diego Convention Center, San Diego, CA.
- 292) Thakur, R., **Michniak, B.** Study of microneedle depth of permeation into human cadaver skin. Poster T3201 at the AAPS Annual Meeting and Exposition, November 11-15, 2007, San Diego Convention Center, San Diego, CA.
- 293) Kaushik, D., O'Fallon, K., Clarkson, P.M., **Michniak-Kohn, B.** Human Plasma and Urine Levels of Quercetin Following Oral Administration. Poster W4002 at the AAPS Annual Meeting and Exposition, November 11-15, 2007, San Diego Convention Center, San Diego, CA.
- 294) Valenzuela, L., **Michniak, B.**, Knight, D., Kohn, J. Study of water uptake for biodegradable polymers through experiments and modeling. 235th ACS Meeting, New Orleans, April 6-10, 2008. PODIUM SESSION.
- 295) Kaushik, D., O'Fallon, K., Clarkson, P., **Michniak-Kohn, B.** Human plasma levels of quercetin following oral administration. 35th Annual Meeting of Controlled Release Society, Hilton New York, New York, July 12-16, 2008.

- 296) Batheja, P., Sivalenka, R., Wu, P.-I., Dayan, N., **Michniak, B.** Evaluation of phototoxicity induced by hydrocinnamic acid upon UVA exposure. 35th Annual Meeting of Controlled Release Society, Hilton New York, New York, July 12-16, 2008.
- 297) Poustchi, Y., **Michniak, B.** Effect of different solvent systems on transdermal drug delivery of a model drug in the presence of enhancers/retardants. Rutgers Undergraduate Symposium, Busch Campus, April 25, 2008.
- 298) Thaliath, E., **Michniak, B.** Effectiveness of barrier creams in conjunction with insect repellent. Session I: Tissue Engineering and Molecular Bioengineering, 8th Annual Senior Design Conference in Biomedical Engineering, Rutgers University, Busch Campus, May 2nd, 2008. PODIUM SESSION.
- 299) Wahi, K., **Michniak, B.** Transdermal drug delivery: chemical permeation modifier using iontophoresis. Session III: Biomechanics & Biomedical Instrumentation, 8th Annual Senior Design Conference in Biomedical Engineering, Rutgers University, Busch Campus, May 2nd, 2008. PODIUM SESSION.
- 300) Talwar, A., Patel, R. Modi, S. **Michniak, B.** Enhancing transdermal drug delivery via iontophoresis. Session III: Biomechanics & Biomedical Instrumentation, 8th Annual Senior Design Conference in Biomedical Engineering, Rutgers University, Busch Campus, May 2nd, 2008. PODIUM SESSION.
- 301) Fan, Q., Sirkar, K., **Michniak, B.** Iontophoretic transdermal drug delivery system using a conducting polymeric membrane. AICHE Annual Meeting, Philadelphia, Nov. 16-21, 2008.
- 302) Batheja, P., Sivalenka, R., Dayan, N., **Michniak, B.** Evaluation of the phototoxic potential of hydroxycinnamic acid (HCA) upon UVA exposure with the aid of the 3T3 Neutral Red uptake assay. AAPS Annual Meeting and Exposition, Georgia World Congress Center, Atlanta, Nov 16-20, 2008.
- 303) Batheja, P. Song, Y., **Michniak, B.** Development and evaluation of a bioengineered Human Skin Equivalent (HSE) for permeability testing of compounds and formulations. AAPS Annual Meeting and Exposition, Georgia World Congress Center, Atlanta, Nov 16-20, 2008.
- 304) Kaushik, D., Gao, J., Chapman, J., **Michniak-Kohn, B.** Effect of electric current on permeation profile of model compound DEET in presence of chemical retardants. AAPS Annual Meeting and Exposition, Georgia World Congress Center, Atlanta, Nov 16-20, 2008.
- 305) Kaushik, D., Costache, A., **Michniak-Kohn, B.** Modeling, solubility and partitioning of percutaneous penetration modifiers. AAPS Annual Meeting and Exposition, Georgia World Congress Center, Atlanta, Nov 16-20, 2008.
- 306) O'Fallon, K., Kaushik, D., **Michniak-Kohn, B.**, Clarkson, P.M. Optimizing oral delivery of quercetin in healthy human subjects. 26th Army Conference, Orlando, FL, Dec. 1-4, 2008.
- 307) **Michniak, B.**, Kilfoyle, B., Mills, O., Knowles, J. Linking biophysical and biochemical findings with clinical use of a Urea Topical Product. Annual Meeting of the American Academy of Dermatology, Chicago, IL, July 30th-Aug, 3rd, 2008.
- 308) Batheja, P., Chandra, P. Rai, V., **Michniak-Kohn, B.**, Kohn, J. An in vitro skin equivalent for evaluation of skin absorption of compounds. 26th Army Conference, Orlando, FL, Dec. 1-4, 2008.
- 309) Batheja, P., Chandra, P. Rai, V., **Michniak-Kohn, B.**, Kohn, J. An in vitro skin equivalent for evaluation of skin absorption of compounds. ATACCC Conference, St. Pete's Beach, FL, Aug.10-13, 2008.

- 310) **Michniak-Kohn, B.**, Muzzio, F., Takhistov, P., Deshpande, K., Llusà, M. Microdispensing Technology in Personalized Medicine. NCI Alliance for Nanotechnology in Cancer Investigators' Meeting, Chicago, IL, Sept. 8-10, 2008.
- 311) Rivera, K., Lewis, D. **Michniak-Kohn, B.** Characterizing the relationship between tablet processing conditions and in vitro dissolution performance. Annual Biomedical Research Conference for Minority Students (ABRCMS), Orlando, FL, Nov 5-8, 2008. PODIUM SESSION.
- 312) Pingali, K.C, Anbessie W.T., Alatar, M., **Michniak-Kohn, B.**, Muzzio, F.J., Product testing and performance evaluation – Flow and electrostatics of powders and correlation to tablet weight variability. Engineering Research Center Conference, September 2008, Rutgers University.
- 313) Pingali, K.C., Mendez, R., Lewis, D., **Michniak-Kohn, B.**, Muzzio, F.J. Influence of shear on powder hydrophobicity, tablet compression and dissolution. NSF – Engineering Research Center Conference, April 2009, Rutgers University.
- 314) Pingali, K.C., Mendez, R., Lewis, D., **Michniak-Kohn, B.**, Muzzio, F.J. Mixing order of flowing agents – influence on powder and tablet properties. NSF – Engineering Research Center Conference, April 2009, Rutgers University.
- 315) Pingali, K., Mendez, R., Lewis, D., **Michniak, B.**, Muzzio, F. Evaluation of shear induced hydrophobicity and drug release. AIChE annual meeting, Nov. 8-13, 2009. Nashville, TN. PODIUM SESSION.
- 316) Kaushik, D., **Michniak-Kohn, B.** Investigation of percutaneous permeation behavior of steroidal drugs in presence of laurocapram-derived retardants. AAPS Annual Meeting and Exposition, Los Angeles, CA, Nov. 8-12, 2009. Poster # W5216.
- 317) Sheihet, L. Batheja, P., Salomon, S., Singer, A., Taira, B., Kohn, J. **Michniak-Kohn, B.** Topically applied tyrosine-derived nanospheres for enhanced skin drug delivery. AAPS Annual Meeting and Exposition, Los Angeles, CA, Nov. 8-12, 2009. Poster # W5279. Presented also at the Pharmaceutics Conference 2009 held on Nov 20, 2009 at Rutgers University, Busch campus Life Sciences Building.
- 318) Rai, V., Batheja, P., Chandra, P., **Michniak-Kohn, B.** Percutaneous absorption studies of caffeine across polymer based human skin equivalents (HSEs). AAPS Annual Meeting and Exposition, Los Angeles, CA, Nov. 8-12, 2009. Poster # W5085. Presented also at the Pharmaceutics Conference 2009 held on Nov 20, 2009 at Rutgers University, Busch campus Life Sciences Building.
- 319) Silva, S.M.C., Sousa, J.J.S., Pais, A.C.C., **Michniak-Kohn, B.** Gemini surfactants as penetration enhancers for drug delivery across the skin. AAPS Annual Meeting and Exposition, Los Angeles, CA, Nov. 8-12, 2009. Poster # W5228. Presented also at the Pharmaceutics Conference 2009 held on Nov 20, 2009 at Rutgers University, Busch campus Life Sciences Building.
- 320) Batheja, P., Sheihet, L. Kohn, J., **Michniak-Kohn, B.** Formulation development of polymeric nanospheres for enhanced skin delivery. AAPS Annual Meeting and Exposition, Los Angeles, CA, Nov. 8-12, 2009. Poster # M1044. Presented also at the Pharmaceutics Conference 2009 held on Nov 20, 2009 at Rutgers University, Busch campus Life Sciences Building. Won Third Best Poster Award from AAPS Rutgers Student Chapter.
- 321) Batheja, P. **Michniak-Kohn, B.** Evaluation of functional efficacy of topical formulations using a Human Skin Equivalent model. AAPS Annual Meeting and Exposition, Los Angeles, CA,

Nov. 8-12, 2009. Poster # W5076. Presented also at the Pharmaceutics Conference 2009 held on Nov 20, 2009 at Rutgers University, Busch campus Life Sciences Building.

- 322) Rai, V., Batheja, P., Chandra, P., **Michniak-Kohn, B.** Comparative percutaneous absorption studies of *N,N*-dimethyl-*m*-toluamide (DEET) across polymer-based human skin equivalents (HSEs). Meeting of NJ Chapter of American Chemical Society, Oct 29, 2009, New Brunswick, NJ. Presented also at the Pharmaceutics Conference 2009 held on Nov 20, 2009 at Rutgers University, Busch campus Life Sciences Building.
- 323) Batheja, P., Sheihet, L., Salomon, S., Singer, A., Kohn, J., **Michniak-Kohn, B.** Tyrosine-derived nanosphere formulations for enhanced skin delivery. Conference on Biomaterials in Medicine and Veterinary Medicine, Rytro, Poland. October 15-18, 2009. Published in Engineering of Biomaterials (2009) Dec. 89-91, pp 1-3. PODIUM SESSION.
- 324) Salomon, S., Sheihet, L., Batheja, P., Singer, A., **Michniak-Kohn, B.**, Clark, R., Kohn, J. Topical curcumin-loaded nanospheres to limit burn injury progression. U.S. Army Armed Forces Institute of Regenerative Medicine AFIRM All-hands Meeting, Tampa, FL. Jan 11-15, 2010.
- 325) Sharp, M.A., Hendrickson, N.R., Staab, J.S. McClung, H.L. **Michniak-Kohn, B.B.**, Catrambone, D.E., Adam, G.E., Nindl, B.C. Quercetin's influence on exercise performance and plasma metabolic markers. American College of Sports Medicine (ACSM) annual meeting, June 2-5, 2010, Baltimore, MD.
- 326) Hendrickson, N.R., Sharp, M.A., Staab, J.S. McClung, H.L. **Michniak-Kohn, B.B.**, Catrambone, D.E., Adam, G.E., Nindl, B.C. Quercetin's influence on muscle soreness, markers of inflammation, and muscle damage. American College of Sports Medicine (ACSM) annual meeting, June 2-5, 2010, Baltimore, MD.
- 327) Dayan, N., Sivalenka, R., Batheja, P., Reimer, J., **Michniak-Kohn, B.** The challenge of performing an in vitro cytotoxicity study with an insoluble powder. Society of Cosmetic Chemists Scientific Meeting and Technology Showcase, Dec. 11 & 12, 2009, New York, NY.
- 328) Conca, K. Nicolosi, R., Dunne, P. **Michniak-Kohn, B.** Nanoemulsion formulations and their effect on buccal permeation. Institute of Food Technologies (IFT) annual meeting, July 17-20, 2010, Chicago, IL.
- 329) **Michniak-Kohn, B.** Development of novel human skin equivalents as permeability screening models. The Defense Threat Reduction Agency (DTRA) Chemical Biological Technologies Directorate (RD-CB) Basic and Supporting Science Division (CBS) Threat Agent Science Capability Area (TAS) and Medical S&T Division (CBM) Chemical S&T Capability Area Dermal Toxicity Workshop held 12-14 January 2010 at the Don Cesar Hotel in St. Petersburg, Florida. By invitation- PODIUM SESSION.
- 330) Rahman, A.K., Rahman, A., Kaushik, D., **Michniak-Kohn, B.** Terahertz study of transdermal drug delivery. American Chemical Society Middle Atlantic Regional Meeting, MARM 2010, April 10-13, 2010, Wilmington, DE. PODIUM SESSION.
- 331) Ghosh, J. **Michniak-Kohn, B.** Understanding interactions of propylene glycol and skin lipids using molecular dynamics simulation. ACS Fall meeting August 22-26, 2010, Boston, MA. PODIUM SESSION.
- 332) Silva, S.M.C., Sousa, J.J.S., Pais, A.C.C., **Michniak-Kohn, B.** Chemical enhancement for skin drug delivery using Gemini surfactants. ACS Fall meeting August 22-26, 2010, Boston, MA.

- 333) Shen, Y., Elele, E., Pale, P. Khushid, K. **Michniak-Kohn, B.** Electrodeless drop-on-demand printing of personalized unit doses. AICHE Annual meeting, Salt Lake City, Nov.7-12, 2010. PODIUM SESSION
- 334) Braidó, D., Cuitino, A. and **Michniak-Kohn, B.** Comparison of tablet dissolution using USP II apparatus and TIM gastrointestinal compartment. AICHE Annual meeting, Salt Lake City, Nov.7-12, 2010.
- 335) Hu, L. and **Michniak-Kohn, B.** The effects of chemical enhancers and iontophoresis on in vitro transdermal delivery of lidocaine HCl. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4140.
- 336) Hu, L. and **Michniak-Kohn, B.** The direct comparison of in vitro transbuccal and transdermal drug delivery using nicotine hydrogen tartrate as a model drug. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4139.
- 337) Hu, L. and **Michniak-Kohn, B.** Enhanced in vitro transbuccal delivery of ondansetron HCl. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4183.
- 338) Silva, S.M.C., Sousa, J.J.S., Pais, A.C.C. **Michniak-Kohn, B.** Cationic surfactants as penetration enhancers in transdermal delivery of lidocaine hydrochloride and caffeine. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4162.
- 339) Silva, S.M.C., Hu, L. Sousa, J.J.S., Pais, A.C.C. **Michniak-Kohn, B.** Enhancement strategies to improve the transdermal drug delivery of ondansetron hydrochloride: a combination of chemical penetration enhancers with iontophoresis. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4161.
- 340) Silva, S.M.C., Hu, L. Sousa, J.J.S., Pais, A.C.C. **Michniak-Kohn, B.** Non-ionic surfactants as chemical penetration enhancers for the transdermal delivery of diltiazem hydrochloride: in vitro permeation studies and cytotoxicity assessment. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4160.
- 341) Kaushik, D., O'Fallon, K.O., Clarkson, P., **Michniak-Kohn, B.** Absorption of total quercetin following oral administration of three quercetin formulations in human subjects. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # M1102.
- 342) Kaushik, D. and **Michniak-Kohn, B.** Investigation of novel laurocapram and iminosulfurane based percutaneous penetration modifiers. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4148.
- 343) Ghosh, I. and **Michniak-Kohn, B.** Screening study of different solubilizer/polymer systems for minimizing crystallization of poorly water soluble drug in transdermal drug delivery systems. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # 4147.
- 344) Zhang, J.P. and **Michniak-Kohn, B.** Ketoprofen and caffeine skin permeation enhancement by microemulsions and microstructure relationship to permeation. FIP

Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4165.

- 345) Dayan, N. Rai, V. **Michniak-Kohn, B.** Evaluation of phototoxic effect of fractionated melanin and the relationship to cell protection activity. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4453.
- 346) Rai, V., Tan, H.S., **Michniak-Kohn, B.** Evaluation of in vitro buccal permeation of naltrexone (NTX)-HCl. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4153.
- 347) Kilfoyle, B., Tan, H.S., **Michniak-Kohn, B.** Oral transmucosal drug delivery system for nicotine. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4187.
- 348) Kilfoyle, B., Sheihet, L. Kim, D., Wang, L. Kohn, J. **Michniak-Kohn, B.** Evaluation and optimization of TyroSphere™ formulation for long-term stability. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # M1273.
- 349) Kilfoyle, B., Sheihet, L., Kohn, J., **Michniak-Kohn, B.** Paclitaxel-loaded TyroSpheres™ for the treatment of psoriasis- in vitro studies. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4107.
- 350) Kilfoyle, B., Sheihet, L., Wang, L., Winters, D., Winters, J. Kohn, J., **Michniak-Kohn, B.** Betamethasone dipropionate and vitamin D3-loaded TyroSpheres™ for the treatment of psoriasis-in vitro evaluation. FIP Pharmaceutical Sciences 2010 World Congress in association with the AAPS Annual Meeting & Exposition, New Orleans, LA, Nov. 14-18, 2010. Poster # W4108.
- 351) Dayan, N. Rai, V., **Michniak-Kohn, B.** Evaluation of the phototoxic effect of fractionated melanin: A comparative study between three different cell lines. 2011 Annual Scientific Seminar of the Society of Cosmetic Chemists, June 2-3, 2011, Bellagio Resort, Las Vegas, NV. **PODIUM SESSION.**
- 352) Sharp, M.S., Hendrickson, N.R., Staab, J.S., McClung, H.L., **Michniak-Kohn, B.B.**, Nindl, B.C. Quercetin supplementation does not improve soldier physical performance. 2nd International Congress on Soldiers' Physical Performance, Jyväskylä, Finland, May 4-7, 2011.
- 353) Senak, L., Rai, V., Menon, G., Flach, C., Zhang, Z., **Michniak, B.**, Mendelsohn, R., Moore, D.J. The study of human dermal fibroblasts at the cellular level by imaging infrared microspectroscopy. Biophysical Journal, Volume 100, Issue 3, Supplement 1, pp. 316a, February 2, 2011.
- 354) Dayan, N., Rai, V., Zhang, Z., **Michniak-Kohn, B.** Comparative chemotoxicity evaluation of Lucuma Seed Extract vs. retinoic acid. Gordon Research Conference Barrier Function of Mammalian Skin, Waterville Valley Resort, Waterville Valley, NH. August 7-12, 2011.
- 355) Zhang, Z., Sheihet, L., Kilfoyle, B.E., Chen, Y., Kohn, J., **Michniak-Kohn, B.** Tyrosine-derived and drug-loaded nanospheres (Tyrospheres) for topical treatment of psoriasis. Skin Trailblazer 2nd Workshop, Prof. Robert Langer's Lab. and Embassy Suites, Boston. August 5-7, 2011.

- 356) Rai, V., Zhang, Z., Kohn, J., **Michniak-Kohn, B.** Development of Human Skin Equivalents (HSEs) as permeability screening models. 2011 Advanced Technology Applications for Combat Casualty Care (ATACCC) Meeting, Fort Lauderdale, FL. August 14-17, 2011.
- 357) Rahman, A., Rahman, A.K., Kilfoyle, B., **Michniak-Kohn, B.** Direct measurement of diffusion kinetics in stratum corneum by CW terahertz scanning reflectometry. 242nd ACS National Meeting, Denver, Colorado, August 28-September 1st, 2011. **PODIUM SESSION.**
- 358) **Michniak-Kohn, B.** Tyrosine-derived nanoparticles for the topical treatment of psoriasis. Nano Drug Delivery Systems (NanoDDS) conference, Salt Lake City, UT. October 15-16, 2011. **PODIUM SESSION.**
- 359) Zhang, J.P., **Michniak-Kohn, B.** investigation of microemulsion microstructure relationship to topical drug delivery using microemulsions containing fluorescent isothiocyanate. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 360) Zhang, Z., Sheihet, L., Kilfoyle, B., Chen, Y., Kohn, J. **Michniak-Kohn, B.** Tyrosine-derived and drug-loaded nanospheres (TyroSpheres™) for topical treatment of psoriasis. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 361) Silva, S., Sousa, J., Pais, A., **Michniak-Kohn, B.** Non-ionic surfactants and iontophoresis in the transdermal drug delivery of diltiazem hydrochloride: in vitro permeation studies and skin integrity evaluation. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 362) Kilfoyle, B., Sheihet, L., Zhang, Z., Wang, L., Kohn, J., **Michniak-Kohn, B.** Preparation and evaluation of polymeric micelle dry formulation for long-term stability. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 363) Susarla, R., Elele, E., Shen, Y., Khusid, B., Keyvan, G., **Michniak-Kohn, B.** Forming thin film drug delivery systems using novel electrode-less drop on demand technology. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 364) Ghosh, I., **Michniak-Kohn, B.** Studying the effect of different solubilizer/polymer combinations in a supersaturated system on the permeability of poorly soluble drug through the skin. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 365) Bose, S., Du, Y., Nadpara, R., Durie, R., Takhistov, P., **Michniak-Kohn, B.** Systematic screening of surfactants to optimize solid lipid nanoparticles of quercetin for topical/transdermal drug delivery. AAPS Annual Meeting and Exposition, Washington DC, October 23-27, 2011.
- 366) Dayan, N., Zhang, Z., Shah, V., **Michniak-Kohn, B.**, Minko, T. Comparing the cytotoxicity and genotoxicity of retinoic acid versus a plant extract in 3T3 fibroblasts and CHO-K1 cell lines. Society of Cosmetic Chemists Annual Scientific Meeting & Technology Showcase, New York City, December 8-9, 2011.
- 367) Zheng, Z., Sheihet, L., Kilfoyle, B., Chen, Y., Kohn, J., **Michniak-Kohn, B.** Tyrosine-derived and drug-loaded nanospheres for the topical treatment of psoriasis. 9th World Biomaterials Congress “Innovative Biomaterials and Crossing Frontiers in Biomaterials & Regenerative Medicine”, Chengdu, China, June 1-5, 2012. **PODIUM SESSION.**
- 368) Tsai, P-C., Ramezanli, T., Rahman, A., Rahman, A., **Michniak-Kohn, B.** Kinetics and quantitation of analytes permeation in stratum corneum by terahertz scanning reflectometry. 244th ACS Annual Meeting, Philadelphia, PA, August 19-23, 2012. **PODIUM SESSION Oral 12066 and Poster ID 12066.**
- 369) Sievens-Figueroa, L., Bhakay, A., Susarla, R., Jerez-Rozo, J., Pandya, N., Romanach, R., **Michniak-Kohn, B.**, Iqbal, Z., Bilgili, E., Dave, R.N. A novel continuous approach for

transformation of nanosuspensions into polymer films containing nanoparticles. AICHE annual Meeting, Pittsburgh, October 28- November 2, 2012. **PODIUM SESSION.**

- 370) Rahman, A., Rahman, A., **Michniak-Kohn, B.** Terahertz scanning reflectometry: a new frontier for non-invasive in depth investigation. ACS Middle Atlantic Regional Meeting-MARM meeting, UBMC, Baltimore, MD, May 31-June 2, 2012. www.marmacs.org/2012. **PODIUM SESSION.**
- 371) Rahman, A., Rahman, A.K., Michniak-Kohn, B. B. Terahertz scanning reflectometry: A new frontier for non-invasive in-depth investigation. In “Soft Surfaces and Interfaces” session of Eastern Analytical Symposium & Exposition, November 12-15, 2012, Somerset, NJ. **PODIUM SESSION.**
- 372) Braidó, D., Li, W., Cuitino, A., **Michniak-Kohn, B.** Biomimetic dissolution investigations with the TIM-1 apparatus. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No. W4238.
- 373) Dayan, N., Rai, V., **Michniak-Kohn, B.** Evaluation of photo-toxic effect of fractionated melanin-a comparative study between three different cell lines. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No. W4198.
- 374) Ghosh, I., **Michniak-Kohn, B.** Identification of critical parameters of submicron gel formulation for enhancing the permeability of poorly water soluble drug through the skin: A case study. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No. R6044.
- 375) Tsai, P. C., Ramezanli, T., Rai, V., Zheng, Z., Kohn, J., **Michniak-Kohn, B.** Development of Tyroderm™, a polymeric based bioengineered skin equivalent. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No. R6057.
- 376) Ramezanli, T., Tsai, P-C., Shah, K. R., **Michniak-Kohn, B.** Transdermal delivery of diclofenac for systemic therapeutic activity using PharmaDur®-“Virtual Patch”. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No. R6330.
- 377) Zhang, J.P., Sintov, A., **Michniak-Kohn, B.** Investigation of DSC approach for characterization of microemulsion formulation microstructures. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No. R6045.
- 378) Brown, M., **Michniak-Kohn, B.**, Takhistov, P. The impact of pattern geometry, inter-droplet spacing, and droplet volume on the dissolution profile of printed dosage form for transdermal delivery. AAPS Annual Meeting and Exposition, Chicago, IL, October 14-18, 2012. Poster No W4192.
- 379) Ramezanli, T., Tsai, P., Kilfoyle, B., Zheng, Z., **Michniak-Kohn, B.** High viscosity formulation of TyroSpheres for cutaneous drug delivery in psoriasis. 11th New Jersey Symposium on Biomaterial Science “Bioactive Materials from Nano to the Macro Scale”, New Brunswick, NJ, October 9-11, 2012.
- 380) Tsai, P., Ramezanli, T., Batheja, P., Zheng, Z., Kohn, J., **Michniak-Kohn, B.** TyroDerm, a polymeric based tissue engineered human skin equivalent model. 11th New Jersey Symposium on Biomaterial Science “Bioactive Materials from Nano to the Macro Scale”, New Brunswick, NJ, October 9-11, 2012.
- 381) Morrow, T.J., Zhang, Z., Goyal, R., Winters, D.K., Kohn, J., **Michniak-Kohn, B.** Delivery of curcumin from tyrosine-derived nanospheres for topical applications. 11th New Jersey Symposium on Biomaterial Science “Bioactive Materials from Nano to the Macro Scale”, New Brunswick, NJ, October 9-11, 2012.

- 382) **Michniak-Kohn, B.**, Zheng, Z., Kilfoyle, B., Sheihet, L., Kohn, J. Novel nanospheres that deliver actives to skin layers. Invited as International Keynote Speaker at 21st COLAMIQC (Congreso Latinoamericano e Iberico de Quimicos Cosméticos) and FCE Cosmetic Exhibition, Transamerica Expo Center, Sao Paulo, Brazil, May 14-16, 2013. **INVITED PLENARY SPEAKER.**
- 383) Joshi, V., Pitt, A., Dorrani, M., Ramreddy, S., **Michniak-Kohn, B.** Formulation rank ordering in transdermal delivery: Use of synthetic membrane as model in place of human skin. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 384) Dorrani, M., Ramreddy, S., Joshi, V., Pitt, A., **Michniak-Kohn, B.** A synthetic membrane for studying in vitro transdermal penetration of actives. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 385) Welsh, W. Isukapalli, S., Cuitino, A., Muzzio, F., Romanach, R., **Michniak-Kohn, B.** Non-destructive characterization and assessment of pharmaceutical oral dosages in continuous manufacturing. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 386) Karry, K.M., Susarla, R., Afolabi, A., Dave, R.N., Biligili, E., **Michniak-Kohn, B.** Biorelevant dissolution of oral films embedded with nanosized drugs. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 387) Ghosh, I., **Michniak-Kohn, B.** Formulation design & stabilization of nanosuspension formulation for enhancing the permeability of poorly water soluble drug through the skin. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 388) Dorrani, M. Garbuzenko, O., Salva, R., Minko, T. **Michniak-Kohn, B.** Lipid nano particle-based skin delivery of siRNA. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 389) Ramezanli, T., Zheng, Z., **Michniak-Kohn, B.** Tyrosine-derived nanospheres increase effectiveness of paclitaxel in melanoma cell lines. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 390) Tsai, P-C., Zhang, Z., Florek, C., **Michniak-Kohn, B.** Construction of human skin equivalents on decellularized porcine mesothelium. AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 391) Zhang, Z., Morrow, T.J., Goyal, R., Kohn, J. **Michniak-Kohn, B.** Delivery of curcumin using tyrosine-derived nanospheres (TyroSpheres). AAPS Annual Meeting and Exposition, San Antonio, TX, Nov. 10-14, 2013.
- 392) Velez-Burgos, T. **Michniak-Kohn, B.** Effect of plasticizers on the physical and permeability properties of chitosan-gelatin edible films. Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville TN Nov 13-16, 2013.
- 393) Tsai, P-C., Zhang, Z., Florek, C., **Michniak-Kohn, B.B.** Construction of human skin equivalents on decellularized porcine mesothelium. NYSCC Cosmetic Technology Transfer Conference, Renaissance Woodbridge Hotel, Iselin, NJ November 13, 2013.
- 394) Zhang, Z., Morrow, T.J., Goyal, R., Kohn, J., **Michniak-Kohn B.B.** Delivery of curcumin using tyrosine derived nanospheres (Tyrospheres). NYSCC Cosmetic Technology Transfer Conference, Renaissance Woodbridge Hotel, Iselin, NJ November 13, 2013.
- 395) Kalaria, S., Karry, Krizia, K. and **Michniak-Kohn, B.B.** Novel strategy for bioavailability enhancement of poorly soluble drugs embedded into oral biofilms. American Pharmaceutical Association (APhA) Annual Meeting, Orlando, March 28-31, 2014.

- 396) Zhang, Z., Morrow, T.J., Goyal, R., Kohn, J., **Michniak-Kohn B.B.** Delivery of curcumin using tyrosine derived nanospheres (Tyrospheres). Innovations in Dermatological Sciences Conference 2013, New Brunswick, NJ, November 19th, 2013. **WON BEST POSTER AWARD.**
- 397) Tsai, P.C., Zhang, Z., Florek, C., **Michniak-Kohn, B.B.** Construction of human skin equivalents on decellularized porcine mesothelium. Innovations in Dermatological Sciences Conference 2013, New Brunswick, NJ, November 19th, 2013.
- 398) Ramezanli, T., Zhang, Z., **Michniak-Kohn, B.** Tyrosine-derived nanospheres, a new carrier system for topical delivery of adapalene. Innovations in Dermatological Sciences Conference 2013, New Brunswick, NJ, November 19th, 2013.
- 399) Welsh, W. Isukapalli, S., Cuitino, A., Muzzio, F., Romanach, R., **Michniak-Kohn, B.** Non-destructive characterization and assessment of pharmaceutical oral dosages in continuous manufacturing. IFPAC[®] Annual Meeting (28th INTERNATIONAL FORUM AND EXHIBITION PROCESS ANALYTICAL TECHNOLOGY, Jan. 21 - Jan. 24, 2014, Arlington, VA (Washington DC), U.S.A.
- 400) Karry, K. M., Romanski, F., Kalaria, S., Lin, E., **Michniak-Kohn, B.** Transoral solid dispersions for solubility and bioavailability enhancement of poorly soluble drugs. GRASP (Graduate Research Association of Students in Pharmaceutics) annual meeting at St. John's University, Queens, NY, June 5-7, 2014.
- 401) Ramezanli, T., Zhang, Z., Kohn, J., **Michniak-Kohn, B.** Tyrosine-derived Nanospheres (TyroSphereTM): A New Carrier System for Topical Delivery of Adapalene. 41st Annual Meeting & Exposition of the Controlled Release Society, Chicago, IL. Abstract ID 10618. July 13-16, 2014. **PODIUM SESSION.**
- 402) Karry, K., Romanski, F., Kalaria, S., Lin, E., **Michniak-Kohn, B.** Transoral solid dispersions for solubility and bioavailability enhancement of poorly soluble drugs. AAPS Annual Meeting and Exposition, San Diego, CA, Nov.2-6, 2014. Poster # T2166.
- 403) Ramezanli, T., Zheng, Z., **Michniak-Kohn, B.** Development & characterization of adapalene- nanoparticle gel formulations for hair follicle-targeted drug delivery. AAPS Annual Meeting and Exposition, San Diego, CA, Nov.2-6, 2014. Poster # M1093.
- 404) Dorrani, M., Garbuzenko, O., Minko, T., **Michniak-Kohn, B.** Topical delivery of siRNA by novel ultradeformable liposomal system to knockdown the overexpression of BRAF protein involved in cell proliferation pathways in melanoma. AAPS Annual Meeting and Exposition, San Diego, CA, Nov.2-6, 2014. Poster # T2117.
- 405) Tsai, P.C., Zheng, Z., Florek, C., **Michniak-Kohn, B.** Constructing full-thickness human skin equivalents (HSEs) on decellularized mesothelial extracellular matrix for in vitro testing applications. AAPS Annual Meeting and Exposition, San Diego, CA, Nov.2-6, 2014. Poster # W5086.
- 406) Dorrani, M., Garbuzenko, O., Minko, T., **Michniak-Kohn, B.** Topical Delivery of siRNA by Novel Ultradeformable Liposomal System. Innovations in Dermatological Sciences Conference 2013, New Brunswick, NJ, October 8th, 2014.
- 407) Tsai, P.-C., Zheng, Z., Florek, C., **Michniak-Kohn, B.** Innovations in Dermatological Sciences Conference 2013, New Brunswick, NJ, October 8th, 2014. **WON THIRD PRIZE** in Best Poster Award Competition.

- 408) Ramezanli, T., Zheng, Z., **Michniak-Kohn, B.** Innovations in Dermatological Sciences Conference 2013, New Brunswick, NJ, October 8th, 2014. **WON SECOND PRIZE** in Best Poster Award Competition.
- 409) Tsai, P.-C., Zheng, Z., Florek, C., **Michniak-Kohn, B.** Constructing full-thickness human skin equivalents (HSEs) on decellularized mesothelial extracellular matrix for *in vitro* testing applications. NYSCC 2014 Sun Exposure Symposium, Pines Manor, Edison NJ, October 15th, 2014.
- 410) Ramezanli, T., Zhang, Z., **Michniak-Kohn, B.** Adapalene nanoparticle gel formulations for hair follicle-targeted drug delivery. 69th SCC Annual Meeting, Hilton Hotel, New York City Dec. 11-12, 2014. **WON 3rd BEST POSTER AWARD.**
- 411) Palma, F., **Michniak-Kohn, B.**, Perez-Correa, J.R., Hernandez, E., Romanach, R.J., Valenzuela, L.M. Characterization of structure and mechanical properties of gelatin-chitosan edible films with plasticizers. Frontiers in Polymer Science Symposium, Riva del Garda, Italy, May 20-22nd, 2015.
- 412) Ramezanli, T., Zheng, Z., **Michniak-Kohn, B.** Adapalene-nanoparticle gel formulations for hair follicle-targeted drug delivery. 2015 BIO International Convention, June 15-18, 2015, Pennsylvania Convention Center, Philadelphia, PA.
- 413) Nallaseth, F. S., Woodbury, D., Medina, D., Tsai, P.C., Walton, K., Batheja, P., Foty, R.A., **Michniak-Kohn, B.** Morphogenesis of skin in 3D co-culture-sorting and mixing of interspecific, intraspecific, differentiated and stem cells with lineage specific keratins. NY Academy of Sciences Meeting: Quantitative Biology: From Molecules to Man, NYAS, New York, June 18th 2015.
- 414) Grove, J., Rahman, A., Ramezanli, T., Rahman, A., **Michniak-Kohn, B.**, Terahertz characterization of permeation of gold nanoparticles through human stratum corneum *in vitro*. Session Advances in Terahertz Spectroscopy and Imaging #413, PacificChem 2015 Congress, Honolulu, Hawaii, December 15-20, 2015. **PODIUM SESSION.**
- 415) Adeleke, O.A., Karry, K.M., **Michniak-Kohn, B.B.**, Monama, N.O. Computer aided construction and investigation of a thermodynamically stable orodispersible film containing isoniazid. AAPS Annual Meeting and Exposition, Orlando, FL, October 25-29, 2015.
- 416) Adeleke, O.A., Tsai, P.-C., **Michniak-Kohn, B.B.** Preparation, characterization and *ex vivo* evaluation of an orally disintegrating film formulation containing pyrazinamide. AAPS Annual Meeting and Exposition, Orlando, FL, October 25-29, 2015.
- 417) Ramezanli, T., Zheng, Z., **Michniak-Kohn, B.B.** Development of a novel adapalene formulation for the treatment of acne. AAPS Annual Meeting and Exposition, Orlando, FL, October 25-29, 2015.
- 418) Dorrani, M., Garbuzenko, O.B., Minko, T., **Michniak-Kohn, B.** Development of topical hydrogel system for the treatment of melanoma. AAPS Annual Meeting and Exposition, Orlando, FL, October 25-29, 2015.
- 419) Ameen, D., **Michniak-Kohn, B.** Transdermal permeation of dimethyl fumarate: effect of penetration enhancers. AAPS Annual Meeting and Exposition, Orlando, FL, October 25-29, 2015.
- 420) Tsai, P., Zhang, Z., Florek, C., **Michniak-Kohn, B.** Constructing human skin equivalents (HSEs) on porcine acellular peritoneum extracellular matrix for *in vitro* irritation applications. AAPS Annual Meeting and Exposition, Orlando, FL, October 25-29, 2015.

- 421) **Michniak-Kohn, B.**, Ramezanli, T., Zheng, Z. Polymeric nanospheres for topical delivery of adapalene. Proceedings of 6th International Conference on Clinical and Experimental Dermatology, May 5-7, 2016. Chicago, IL. **PODIUM SESSION.**
- 422) Hernandez, E., Pallavi, P., Golshid, K., Wang, Y., Velez, N., Callegari, G., Cuitino, A., **Michniak-Kohn, B.**, Muzzio, F., Romanach, R. Non-destructive prediction of dissolution profiles on tablets with differences in strain using NIR spectroscopy. IFPAC annual meeting, January 24-27, 2016, Arlington, VA.
- 423) Ramezanli, T. **Michniak-Kohn, B.** Tyrosine-derived nanospheres: an alternative approach for topical delivery of adapalene. New York Skin Club Conference, Mount Sinai Medical Center, New York, March 31, 2016. **ORAL PRESENTATION.**
- 424) Ramezanli T., Zhang Z., Kilfoyle B. and **Michniak-Kohn B.** Polymeric nanospheres for topical delivery of vitamin D3. 2016, *Front. Bioeng. Biotechnol. Conference Abstract: 10th World Biomaterials Congress*. doi: 10.3389/conf.FBIOE.2016.01.00586. **PODIUM SESSION.**
- 425) Tsai P., Zhang Z., Florek C. and **Michniak-Kohn B.** Constructing human skin equivalents on porcine acellular peritoneum extracellular matrix for in vitro irritation testing. 2016, *Front. Bioeng. Biotechnol. Conference Abstract: 10th World Biomaterials Congress*. doi: 10.3389/conf.FBIOE.2016.01.02285.
- 426) Tang, Q., Ramezanli, T., **Michniak-Kohn, B.**, Vyakarnam, M., Marchant, N. Transform polymer films: Rapid drug delivery hydrogels. 43rd Annual Meeting of Controlled Release Society, Seattle, WA, July 17-20, 2016.
- 427) Ameen, D., **Michniak-Kohn, B.** Ex Vivo transdermal permeation of dimethyl fumarate combined with nicotine using human cadaver skin. AAPS Annual Meeting and Exposition, November 13-17, 2016, Denver, Colorado.
- 428) Martos, N., **Michniak-Kohn, B.** Effect of insecticide diethyltoluamide (DEET) and co-applied sunscreens on percutaneous absorption of both actives. AAPS Annual Meeting and Exposition, November 13-17, 2016, Denver, Colorado.
- 429) Ramezanli, T., **Michniak-Kohn, B.** Tyrosine-derived nanospheres: and alternate approach for acne therapy. AAPS Annual Meeting and Exposition, November 13-17, 2016, Denver, Colorado.
- 430) Ameen, D., Alam, A., **Michniak-Kohn, B.** Transdermal permeation of dimethyl fumarate with nicotine in human skin-effect of pH. Controlled Release Society Annual Meeting & Exposition, July 16-19, 2017 Hynes Convention Center, Boston, MA.
- 431) Haq, A., Chandler, M., **Michniak-Kohn, B.** Application of Hansen solubility parameters and FFE Software in predicting drug permeation and for the selection of best pharmaceutical excipients for delivery of active molecules through the skin. Gordon Research Conference "Barrier Function of Mammalian Skin: Convergence of Biological and Technological Frontiers of Skin Barrier" Waterville Valley, New Hampshire, USA, August 13-18, 2017.
- 432) Nallaseth, F.S., **Michniak-Kohn, B.**, Bradeanu, I.L., Foty, R.A., Woodbury, D., Medina, D., Jia, D., Walton, K., Batheja, P., Tsai, P-C. Multi-cue induction of skin morphogenesis in 3D co-cultures traced with lineage specific markers and research plans for synchrotron Fourier transform infra-red (SR-FTIR) microspectroscopy. Programme CoLuAa XXV 2017 at University of Copenhagen, Copenhagen, Denmark, October 30, 2017.
- 433) Adeleke, O.A., Karry, K. M., Tsai, P.C., **Michniak-Kohn, B.B.** Design and evaluation of a nano-enabled oral film of rifampicin for tuberculosis treatment. AAPS Annual Meeting & Exposition, Nov 12-16, 2017, San Diego Convention Center, San Diego, CA.

- 434) Haq, A., Goodyear, B., Ameen, D., Joshi, V., **Michniak-Kohn, B.** Strat-M synthetic membrane: Permeability comparison to human cadaver skin. AAPS Annual Meeting & Exposition, Nov 12-16, 2017, San Diego Convention Center, San Diego, CA.
- 435) Lin, H., Trehan, S., **Michniak-Kohn, B.** Development and evaluation of co-loaded berberine chloride and evodiamine ethosomes for the treatment of melanoma. AAPS Annual Meeting & Exposition, Nov 12-16, 2017, San Diego Convention Center, San Diego, CA.
- 436) **Michniak-Kohn, B.** Topical Dosage Forms and Formulations: Foundation Lecture at AAPS Workshop on Dermatological Products-Developmental and Regulatory Considerations. AAPS Annual Meeting & Exposition, Nov 12-16, 2017, San Diego Convention Center, San Diego, CA. **INVITED PODIUM SPEAKER.**
- 437) Lin, H., Trehan, S., **Michniak-Kohn, B.** Enhanced epidermal localization of topically applied co-loaded berberine and evodiamine using ethosomes. 71st Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.
- 438) Moraes, J.D.D., Leonardi, G. R., Guerra, L.O., Trehan, S., **Michniak-Kohn, B. B.** Investigation of clay mineral for skin photoprotection by in vitro and in vivo assays. 71st Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.
- 439) Soskind, R., Trehan, S., **Michniak-Kohn, B. B.** Design, development and in vitro characterization of Vitamin E loaded polymeric nanoparticles for topical delivery. 71st Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.
- 440) Puri, V., Ramzan, M., Trehan, S., Pal Kaur, I., **Michniak-Kohn, B.** Ungual delivery of ketoconazole using solid lipid nanoparticles. Controlled Release Society Annual Meeting & Exposition, July 22-24, 2018, New York Hilton Midtown Manhattan Hotel, New York, NY.
- 441) Gourion-Arsiquaud, S., Ramzan, M., Trehan, S., Wyluda, K., Zhang, Q., **Michniak-Kohn, B.**, Pal Kaur, I. Investigation of the permeation of solid lipid nanoparticles loaded with ketoconazole into skin layers using spectroscopic imaging techniques. Controlled Release Society Annual Meeting & Exposition, July 22-24, 2018, New York Hilton Midtown Manhattan Hotel, New York, NY. **ORAL PRESENTATION.**
- 442) Haq, A., **Michniak-Kohn, B.** Transdermal delivery of thymoquinone: Solubility, permeability and skin deposition study. Controlled Release Society Annual Meeting & Exposition, July 22-24, 2018, New York Hilton Midtown Manhattan Hotel, New York, NY.
- 443) Soskind, R., Kohn, J.B., **Michniak-Kohn, B.** Tyrospheres loaded with Vitamin E and tacrolimus for topical delivery applications. Controlled Release Society Annual Meeting & Exposition, July 22-24, 2018, New York Hilton Midtown Manhattan Hotel, New York, NY.
- 444) Ameen, D., **Michniak-Kohn, B.** Development and evaluation of dimethyl fumarate nano-structured lipid carriers using microemulsion method. Controlled Release Society Annual Meeting & Exposition, July 22-24, 2018, New York Hilton Midtown Manhattan Hotel, New York, NY.
- 445) Soskind, R. **Michniak-Kohn, B.** Characterization of compound loading into polymer nanospheres for dermal applications. 4th International Conference on Biomedical Polymers & Polymeric Materials, July 15-18, 2018, Krakow, Poland.

- 446) Ameen, D., **Michniak-Kohn, B.** Development & evaluation of dimethyl fumarate nano-structured lipid carriers using microemulsion method. Innovations in Dermatological Sciences: Future of Dermaceuticals & Cosmeceuticals, Renaissance Woodbridge, NJ, Oct 7-9, 2018.
- 447) Haq, A., **Michniak-Kohn, B.** Transdermal delivery of thymoquinone: Solubility, permeability & skin deposition study. Innovations in Dermatological Sciences: Future of Dermaceuticals & Cosmeceuticals, Renaissance Woodbridge, NJ, Oct 7-9, 2018.
- 448) Jackow, J., Rami, A., Soskind, R., Guo, Z., Hansen, C., Hayashi, R., DeLorenzo, D., **Michniak-Kohn, B.**, Christiano, A., Development of liposomes for CRISPR/Cas9 gene-editing in vivo delivery for recessive dystrophic epidermolysis bullosa treatment. Innovations in Dermatological Sciences: Future of Dermaceuticals & Cosmeceuticals, Renaissance Woodbridge, NJ, Oct 7-9, 2018.
- 449) Rudzki, P., Maruszak, W., Pesta, E., Trehan, S., **Michniak-Kohn, B.** Dermal microdialysis & bioequivalence of topical drugs: a perfect marriage? Innovations in Dermatological Sciences: Future of Dermaceuticals & Cosmeceuticals, Renaissance Woodbridge, NJ, Oct 7-9, 2018.
- 450) Haq, A., **Michniak-Kohn, B.** Effects of solvents and penetration enhancers on transdermal delivery and skin deposition of thymoquinone, an anti-inflammatory phytochemical. AAPS Annual Meeting & Exposition 2018 PharmSci 360, Walter E. Washington Convention Center, Washington DC, November 4-7, 2018.
- 451) Soskind, R. **Michniak-Kohn, B.** Investigating drug loading capacity of TyroSpheres, a polymer-based nanocarrier system for use in dermal delivery. AAPS Annual Meeting & Exposition 2018 PharmSci 360, Walter E. Washington Convention Center, Washington DC, November 4-7, 2018.
- 452) Ameen, D., Gruytch, R., **Michniak-Kohn, B.** Microfluidic devices for in vitro testing of aluminum salt antiperspirant performance. AAPS Annual Meeting & Exposition 2018 PharmSci 360, Walter E. Washington Convention Center, Washington DC, November 4-7, 2018.
- 453) Ameen, D., **Michniak-Kohn, B.** Development and in vitro evaluation of pressure sensitive adhesive patch for the transdermal delivery of galantamine. AAPS Annual Meeting & Exposition 2018 PharmSci 360, Walter E. Washington Convention Center, Washington DC, November 4-7, 2018.
- 454) Zhang, Q., Puri, V., Trehan, S., **Michniak-Kohn, B.**, Kaur, I.P., Gurion-Arsiquaud, S. Spectroscopic imaging techniques highlight the permeation improvement of ketoconazole in the skin by solid lipid nanoparticles (SLN). AAPS Annual Meeting & Exposition 2018 PharmSci 360, Walter E. Washington Convention Center, Washington DC, November 4-7, 2018.
- 455) Rudzki, P., Maruszak, W., Pesta, E., Trehan, S., **Michniak-Kohn, B.** Dermal microdialysis & bioequivalence of topical drugs: a perfect marriage? Abstract P30 at XI Multidisciplinary Conference on Drug Research (XI Multidyscyplynarna Konferencja Nauki o Leku), Warsaw, Poland, 14016 November 2018.
- 456) Haq, A., Kumar, S., Mao, Y., Berthiaume, F., **Michniak-Kohn, B.** Development & characterization of polymeric films containing thymoquinone for the treatment of wound healing and bacterial skin infections. AAPS Annual Meeting & Exposition 2019 PharmSci 360, Henry B. Gonzalez Convention Center, San Antonio TX, November 3-6, 2019.
- 457) Haq, A., Chandler, M., **Michniak-Kohn, B.** Solubility-Physicochemical-Thermodynamic theory of penetration enhancer mechanism of action. AAPS Annual Meeting & Exposition 2019 PharmSci 360, Henry B. Gonzalez Convention Center, San Antonio TX, November 3-6, 2019.

- 458) Froelich, A., Osmalek, T., Jadach, B., Albold, D., Roszak, R., **Michniak-Kohn, B.** Mixed non-ionic surfactants microemulsions with indomethacin-structural studies. AAPS Annual Meeting & Exposition 2019 PharmSci 360, Henry B. Gonzalez Convention Center, San Antonio TX, November 3-6, 2019.
- 459) Zhang, Z., **Michniak-Kohn, B.** Dermal & transdermal delivery of oxicams using deformable liposomes. AAPS Annual Meeting & Exposition 2019 PharmSci 360, Henry B. Gonzalez Convention Center, San Antonio TX, November 3-6, 2019. **WON 2019 AAPS BEST ABSTRACT AWARD.**
- 460) Puri, V., **Michniak-Kohn, B.** Transungual patches for antifungal drug delivery in onchomycosis. AAPS Annual Meeting & Exposition 2019 PharmSci 360, Henry B. Gonzalez Convention Center, San Antonio TX, November 3-6, 2019.
- 461) Rudzki, P., Maruszak, W., Pesta, E., Trehan, S., **Michniak-Kohn, B.** Dermal microdialysis & bioequivalence of topical drugs: a perfect marriage? First ORBIS Summer School, Trinity College Dublin, Ireland; June 12-14th 2019.
- 462) Haq, A., Kumar, S., Berthiaume, F., **Michniak-Kohn, B.** Development and evaluation of thymoquinone loaded polymeric films for the treatment and management of wounds. SACNADS-Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Honolulu, Hawaii, October 31-November 2, 2019.
- 463) Froelich, A., **Michniak-Kohn, B.** Microemulsions as novel carriers for potential dermal delivery of indomethacin. 15th U.S.- Japan Symposium on Drug Delivery Systems, Westin Resort and Spa, Lahaina, Maui, Hawaii December 14-18, 2019.
- 464) Haq, A., Kumar, S., Berthiaume, F., **Michniak-Kohn, B.** Development and evaluation of thymoquinone loaded polymeric films for the treatment and management of wounds. 15th U.S.- Japan Symposium on Drug Delivery Systems, Westin Resort and Spa, Lahaina, Maui, Hawaii December 14-18, 2019.
- 465) Haq, A., Chandler, M., **Michniak-Kohn, B. B.** Solubility-physicochemical-thermodynamic theory of penetration enhancer mechanism of action. AAPS Annual Meeting & Exposition 2020 PharmSci 360, October 26 – November 5, 2020.
- 466) Puri, V., Froelich, A., **Michniak-Kohn, B.B.** A systematic process for synthesis of nanospheres for the ungual delivery of terbinafine hydrochloride. AAPS Annual Meeting & Exposition 2020 PharmSci 360, October 26 – November 5, 2020.
- 467) Shariat-Madar, Z., Rahman, A., **Michniak-Kohn, B.**, Da Motta, G., Rahman, A. Terahertz camera-less imaging of human stratum corneum-protein interactions. Biotech Meeting, 2nd Global Virtual Summit on Biotechnology & Bioengineering, April 5-6, 2021 <https://biotechconference.mindauthors.com>.
- 468) Matharoo, N., Garimella, H.J., Uppal, G., **Michniak-Kohn, B.** Comparative evaluation of the transdermal activity of desoximetasone using cream and ointment. Controlled Release Society Virtual Annual Meeting, July 25-29, 2021.
- 469) Matharoo, N. Uppal, G., Garimella, H.J., **Michniak-Kohn, B.** Comparative evaluation of kinetics and dermal bioavailability of adapalene from three marketed gel formulations using human cadaver skin. 2021 AAPS PharmSci 360, October 17-20, 2021. Poster ID #1053387.
- 470) Maphalle, L.N.F., Wesley-Smith, J., Ogunrombi, M.O., **Michniak-Kohn, B.B.**, Adeleke, O.A. Fabrication, morphological examination, and *in vitro/ex vivo* analyses of a novel rifampicin loaded matrix type skin delivery patch. 2021 AAPS PharmSci 360, October 17-20, 2021.

- 471) Moh'd, H. and **Michniak-Kohn, B.** Combination of thymoquinone and curcumin induces cell death by alteration of redox homeostasis in A375 melanoma cell line. 2022 AAPS PharmSci 360, October 16-20, 2022. Boston, MA. Poster M1130-10-55.
- 472) Doyle, J., Enekebe, C., Matharoo, N., **Michniak-Kohn, B.** Development and characterization of diclofenac sodium loaded liposomes. Emerging Researchers National Conference in STEM. Washington DC, February 9-11, 2023. **Won 1st place in Chemistry and Chemical Science category.**
- 473) Doyle, J., Enekebe, C., Matharoo, N., **Michniak-Kohn, B.** Development and characterization of diclofenac sodium loaded liposomes. National Conference on Undergraduate Research 2023, University of Wisconsin-Eau Claire, April 13-15, 2023.
- 474) Doyle, J., Enekebe, C., Matharoo, N., **Michniak-Kohn, B.** Development and characterization of diclofenac sodium loaded liposomes. HBCU Conference, Eli Lilly, Indianapolis, IN. Feb 23-24, 2023. **Won Best Poster Award plus scholarship for graduate school program.**
- 475) Maphalle, L., Rampedi, P., Ogunrombi, M.O., **Michniak-Kohn, B.**, Adeleke, O.A. Physico-chemical, organoleptic and stability evaluations of a monolithic matrix transdermal patch containing rifampicin. Annual Meeting of Controlled Release Society "Future of Delivery Science", Paris Hotel, Las Vegas, NV, July 24-28, 2023.
- 476) Maphalle, L., Rampedi, P., Ogunrombi, M.O., **Michniak-Kohn, B.**, Adeleke, O.A. Development of a rifampicin-loaded topical gel for the treatment of cutaneous tuberculosis. Annual Meeting of Controlled Release Society "Future of Delivery Science", Paris Hotel, Las Vegas, NV, July 24-28, 2023.
- 477) Zhang, Z., Osmalek, T. **Michniak-Kohn, B.** Deformable liposomal hydrogel for dermal and transdermal delivery of meloxicam. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023.
- 478) Zidar, A., Matharoo, N., Kristl, J., **Michniak-Kohn, B.** Challenges and strategies in loading hydrophobic anticancer drug bexarotene into exosomes for targeted drug delivery. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023.
- 479) Dopierala, K., Moh'd, H., **Michniak-Kohn, B.** Development of transethosomes for transdermal delivery of thymoquinone. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023.
- 480) Dvorakova, K., **Michniak-Kohn, B.**, Zbytovska, J. Application of morpholine derivatives as skin permeation enhancers in combination with therapeutic systems. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023.
- 481) Kalvadova, A., Dvorakova, K., Petrova, E., **Michniak-Kohn, B.**, Zbytovska, J. The contest of nanoparticles: searching for the most effective topical delivery of corticosteroids. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023.
- 482) Zhang, J., Froelich, A., **Michniak-Kohn, B.** Topical delivery of meloxicam using liposome and microemulsion formulation approaches. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023. **PODIUM PRESENTATION.**

- 483) Kalvadova, A., **Michniak-Kohn, B.**, Zbytovska, J. Innovative cerosomes as carriers for an enhanced dermatitis therapy. Final Conference & Meeting, ORBIS Project, Poznan University of Medical Sciences, Poznan, Poland July 7th, 2023. **PODIUM PRESENTATION.**
- 484) Moh'd, H., Dopierala, K., **Michniak-Kohn, B.B.** The impact of edge activators on transthesosomal formulations for enhancing the skin delivery of thymoquinone. Gordon Research Conference "Barrier Function of Mammalian Skin" Waterville Valley, NH, August 6-11, 2023.
- 485) Moh'd, H., Dopierala, K., **Michniak-Kohn, B.** The effect of edge activator combinations in transthesosomal formulations for skin delivery of thymoquinone. 2023 AAPS PharmSci 360, Orlando, FL October 22-25, 2023.
- 486) Ho, G., Moh'd, H., Robinson, K., **Michniak-Kohn, B.** Influence of Kollicream OD on ibuprofen skin permeation and retention. 2023 AAPS PharmSci 360, Orlando, FL October 22-25, 2023.
- 487) Nguyen, L.A.T., Moh'd, H., **Michniak-Kohn, B.** Development and characterization of ethosomes and transthesosome-loaded with thymoquinone. 77th Society of Cosmetic Chemists Annual Scientific Meeting and Showcase, Sheraton Times Square, New York, NY, December 11-13, 2023.
- 488) Kohn, J., and **Michniak-Kohn, B.B.** Novel carriers used in topical delivery systems. 32nd Annual Conference of Biomaterials in Medicine and Veterinary Medicine, October 12-15, 2023 in Ryto, Poland. **INVITED PODIUM SESSION.**
- 489) Wojtylko, M., **Michniak-Kohn, B. B.**, Lamprou, D.A., Budnik, I., Froelich, A., Kordyl, O., Jadach, B., Kuczko, W., Wichniarek, R., Nowocka, A., Szybowicz, M., Krzyszowski, J., Bialek, A., Osmalek, T. Dissolution studies of agomelatine-coated microneedles for potential use in transdermal drug delivery. 10th Polish-German Symposium POLGERSYM10, September 22-23, 2023, Dusseldorf, Germany.
- 490) **Michniak-Kohn, B.B.** Polymeric adapalene-loaded nanospheres for treating acne. Physical Chemistry and Biophysics for Pharmacy Conference 2023, Wroclaw, Poland, December 8 2023. **PLENARY session.**

Non-Peer-Reviewed Articles -selected

- 1) **Michniak-Kohn, B.** Interview in Eurocosmetics, 2016, (11), 32-36.
- 2) **Michniak-Kohn, B.** Faculty Spotlight Interview, AAPS Dermatopharmceutics Focus Group Newsletter, Issue 11, November 2016, pp. 1-3.
- 3) **Michniak, B.** Drug Delivery Systems. A book review. Pharmaceutical Research (2004) 21 (6), 1072.
- 4) **Michniak, B.** Therapeutic protein, semisolid dosage forms and dermatopharmaceuticals. ID Drugs, The Investigational Drugs Journal (1999), 2 (1), 29-30.
- 5) **Michniak, B.B.** Percutaneous penetration enhancers: local versus transdermal activity. Pharmaceutical Science and Technology Today, 2000, 3(1), 36-41.
- 6) Wang, Y., **Michniak, B.B.** Transdermal Drug Delivery Technology. Controlled Release Society Newsletter, 2003, 20 (3), pp.27-28.

- 7) Kydonieus, A. and **Michniak, B.B.** Transdermal Patent Watch. Controlled Release Society Newsletter, 2004, 21 (2), pp. 17-19.
- 8) **Michniak, B.** "From the Editors" section. Controlled Release Society Newsletter. 2008, 25, (2), pp.1
- 9) **Michniak, B.** "From the Editors" section. Controlled Release Society Newsletter. 2005, 22 (2) pp.1
- 10) **Michniak, B.** "From the Editors" section. Controlled Release Society Newsletter. 2004, 21 (2) pp.1
- 11) **Michniak, B.** "From the Editors" section. Controlled Release Society Newsletter. 2004, 21 (1) pp.1.
- 12) **Michniak, B.** "From the Editors" section. Controlled Release Society Newsletter. 2003, 20 (3) pp.1
- 13) **Michniak, B.** "From the Editors" section. Controlled Release Society Newsletter. 2003, 20 (2) pp.1.
- 14) Batheja, P., Persaud, D., **Michniak, B.B.**, Kydonieus, A. Transdermal Patent Watch. Controlled Release Society Newsletter, pp. 22-23, 28,30., Vol. 22 (2), 2005.
- 15) Batheja, P., **Michniak, B.B.**, Kydonieus, A. Transdermal Patent Watch. Controlled Release Society Newsletter, March 2006.
- 16) Batheja, P., **Michniak, B.B.**, Kydonieus, A. Transdermal Patent Watch. Controlled Release Society Newsletter, March 2007.
- 17) Batheja, P., Kaushik, D., **Michniak, B.B.**, Kydonieus, A. Transdermal Patent Watch. Controlled Release Society Newsletter, June 2008.
- 18) **Michniak-Kohn, B.** Robert S. Langer Awarded National Medal of Science: An Interview. Controlled Release Society Newsletter, Vol. 24, No. 4, 2007.
- 19) Kilfoyle, B. and **Michniak-Kohn, B.** Interview with Nicholas Peppas. Controlled Release Society Newsletter, Vol. 26, No. 1, 2009, pp.6-9.
- 20) Kaushik, D., Kydonieus, A., Rai, V., **Michniak-Kohn, B.** Pharmaceutical Sciences and Biotechnology Patent Watch. Controlled Release Society Newsletter, Vol. 26, No. 1, 2009, pp.32-41.
- 21) Kilfoyle, B., **Michniak-Kohn, B.** Interview with Jorge Heller. Controlled Release Society Newsletter, Vol. 26, No. 2, 2009, pp.7-8.
- 22) Kilfoyle, B., **Michniak-Kohn, B.** Interview with Vladimir Torcillin. Controlled Release Society Newsletter, Vol.26, No. 5, 2009, pp.4-7.
- 23) **Michniak-Kohn, B.** and Falcone, R. CRS New Jersey Chapter Events Update. CRS Newsletter, 2009, 26 (5), pp. 22-23.

- 24) Kilfoyle, B., **Michniak-Kohn, B.** Interview with Henry Kopecek. Controlled Release Society Newsletter, Vol.27, No. 2, 2010, pp.4-7.
- 25) Kilfoyle, B. **Michniak-Kohn, B.** Interview with CRS President Dr. Diane Burgess. Controlled Release Society Newsletter, Vol.27, No. 3, 2010, pp.4-9.
- 26) **Michniak-Kohn, B.** “From the Editors” section. Controlled Release Society Newsletter, Vol.27, No. 3, 2010, pp.2.
- 27) Perumal, O., **Michniak-Kohn, B.**, Touitou, E., Roberts, M. Guest Editorial, Journal of Biomedical Nanotechnology (2010), 6, 405-407.
- 28) Kilfoyle, B., **Michniak-Kohn, B.** Interview with Dr. Ronald Siegel. Controlled Release Society Newsletter, 2010, Volume 27 (6), pp. 4-8.
- 29) Kilfoyle, B., **Michniak-Kohn, B.** Interview with Dr. Allan Hoffmann. Controlled Release Society Newsletter, 2011, Volume 28 (6), pp. 4-9.
- 30) Rai, V., Rajan, S.S., Falcone, R., **Michniak-Kohn, B.** New Jersey Controlled Release (NJ-CRS) Chapter Event Update (2010-2011), Controlled Release Society (CRS) Newsletter, 2011, 28 (3), pp. 24-25.
- 31) Features “People in the News” section with “Prof. Michniak-Kohn is Aresty Faculty Member of the Year 2011” and “Inaugural launch of the Center for Dermal Research at Rutgers University on March 3, 2011”. Controlled Release Society (CRS) Newsletter, 2011, 28 (3), pp. 31.

Representative Invited Lectures (Selected from over 300+ invited presentations)

- 1) **Michniak-Kohn, B.** Anatomy and physiology of skin and use of skin models. 3rd ORBIS (Horizon 2020, Grant No. 778051) Summer School Workshop on Topical and Transdermal Drug Delivery Systems, Poznan University of Medical Sciences, Poznan, Poland, June 21-22, 2022.
- 2) **Michniak-Kohn, B.B.** Design and formulation of transdermal drug delivery systems (TDSS). 3rd ORBIS (Horizon 2020, Grant No. 778051) Summer School Workshop on Topical and Transdermal Drug Delivery Systems, Poznan University of Medical Sciences, Poznan, Poland, June 21-22, 2022.
- 3) Kohn, J. and **Michniak-Kohn, B.B.** Novel carriers used in topical drug delivery systems. 3rd ORBIS (Horizon 2020, Grant No. 778051) Summer School Workshop on Topical and Transdermal Drug Delivery Systems, Poznan University of Medical Sciences, Poznan, Poland, June 21-22, 2022.
- 4) **Michniak-Kohn, B.** Women in STEM: Bringing together American and Polish perspectives. Embassy of the Republic of Poland in Washington DC. **Invited Panelist** with Prof. A. Zalewska (President of CERN Council) and Maria Siemionow (lead surgeon for first human face transplant). May 24th, 2022.
- 5) **Michniak-Kohn, B.** Natural products and stem cells and their commercial aspects in cosmetics. 17th Prediction in Percutaneous Penetration PPP conference, La Grande Motte, France 19th-22nd April, 2022. **Invited speaker.**
- 6) **Michniak-Kohn, B.** Antioxidants, stem cells and the thymoquinone story. NYSCC Natural Ingredients Symposium, Brooklyn Botanic Garden, June 30th, 2022. **Invited Speaker.**

- 7) **Michniak-Kohn, B.** Overcoming the skin barrier using the microneedle approach. University Institute of Pharmaceutical Sciences, UGC Networking Resource Center, Panjab University, Chandigarh, India. Web Training Course on New Era Technologies in Formulation Design Space January 17-22, 2022.
- 8) **Michniak-Kohn, B.** Enhancing skin drug delivery using microneedles. Invited seminar for Masters in Medical Technologies, University of Coimbra, Faculty of Pharmacy, Pharmaceutical Technology: Coimbra Chemistry Center, Portugal, January 15th 2022.
- 9) **Michniak-Kohn, B.B.** Microneedles: a new skin device for drug delivery. Invited lecture for the Student Division of the International Society of Pharmaceutical Engineering (ISPE) at the Poznan University of Medical Sciences, Poznan, Poland, November 16th, 2021. **INVITED SPEAKER.**
- 10) **Michniak-Kohn, B.B.** Designing formulations for the skin: facts and challenges. Scientific seminar for the Faculty of Pharmacy at the Poznan University of Medical Sciences, Poznan, Poland, November 17th, 2021. **INVITED SPEAKER.**
- 11) **Michniak-Kohn, B. B.** Academia -industry collaborations: where do you start and how to succeed. Presenter & Panelist at 2021 Panamerican Society for Pigment Cell Research-PASPCR Conference, Lexington, KY and Online. Sept 22-25, 2021.
- 12) **Michniak-Kohn, B.B.** Designing formulations for the skin: facts and challenges. Colgate Palmolive, Premium Skin Health Group, July 27th 2021.
- 13) **Michniak-Kohn, B.B.** Overcoming the stratum corneum barrier & delivering drugs to the skin. Presentation to the Ernest Mario School of Pharmacy, Rutgers University as part of the "Faculty Research Series" June 2nd 2021.
- 14) **Michniak-Kohn, B.B.** The future of topical & transdermal drug delivery technologies. BASF/Center for Dermal Research CDR Skin Workshop, May 20th 2021.
- 15) **Michniak-Kohn, B.B.** Topical dosage forms and formulations. Webinar for American Association of Pharmaceutical Scientists Topical and Transdermal Community Monthly Webinar Series, August 9th 2019. **INVITED SPEAKER.**
- 16) **Michniak-Kohn, B.B.** Rutgers Center for Dermal Research Experience in Scientist Exchange from Horizon 2020 ORBIS Project. Presented in Poznan, Poland. September 26th 2019 for EU Horizon 2020 Mid-Year Meeting with officials from Brussels.
- 17) **Michniak-Kohn, B. B.** Principles and Challenges in Effective Topical Drug Delivery in Symposium "HiJAKing Topical Therapies for New Indications in Dermatology". Fifth Annual Society for Investigative Dermatology Meeting, Chicago Hilton, IL, May 8-11, 2019. **INVITED SPEAKER.**
- 18) **Michniak-Kohn, B.B.** Background and Issues with In Vitro Release Testing IVRT and In Vitro Permeability Testing IVPT. Presented at the CDR/BASF Workshop entitled Discovery of Excipient Functionality in Topical Formulation Design, Tarrytown, NY, April 2019. **INVITED SPEAKER.**
- 19) **Michniak-Kohn, B.** Skin Penetration Studies.Principles and Practice of Skin Measurement Science two-day Course, TRI Princeton & Center for Dermal Research CDR, TRI Princeton, October 10-11, 2018. **INVITED SPEAKER.**
- 20) **Michniak-Kohn, B.** Overview of Research at the Center for Dermal Research CDR at Rutgers, The State University of New Jersey. 2018 University Contacts two-day Symposium at Lubrizol Headquarters, Brecksville, Ohio. May 22 and 23rd, 2018. **INVITED SPEAKER.**

- 21) **Michniak-Kohn, B.** Targeted delivery of adapalene to hair follicles for treatment of acne. Drug Formulation and Drug Delivery Symposium at Touro College of Pharmacy, New York City, NY. May 24th, 2018. **INVITED SPEAKER.**
- 22) **Michniak-Kohn, B.B.** Excipient functionality to meet future needs. Presented at the CDR/BASF Workshop entitled Discovery of Excipient Functionality in Topical Formulation Design, Tarrytown, NY, December 5th 2017. **INVITED SPEAKER.**
- 23) **Michniak-Kohn, B.** Topical dosage forms and formulations: Foundations lecture in Workshop on Dermatological Drug Products: Developmental & Regulatory Considerations. Nov. 11-12, 2017. This was a two-day Pre-meeting Workshop at the AAPS Annual Meeting & Exposition, Nov 12-16, 2017, San Diego Convention Center, San Diego, CA. **INVITED SPEAKER.**
- 24) **Michniak-Kohn, B.** Topical Delivery of Actives: Key Principles. Advances in Skin Science, Measurement & Treatment Course, TRI Princeton & Center for Dermal Research CDR, TRI Princeton, October 4-5, 2017.
- 25) **Michniak-Kohn, B.** Topically-applied nanocarriers for the treatment of acne. MadiMed Conference: Red de Materiales, Dispositivos y Medicamentos at University of Habana, Habana, Cuba July 5th 2017.
- 26) **Michniak-Kohn, B.** Topical and microneedle drug delivery aimed at the hair follicle and deeper dermis. Presented at the Alopecia Areata Research Summit: Building and Crossing the Translational Bridge. NY Academy of Medicine, New York, NY, November 14-15, 2016.
- 27) **Michniak-Kohn, B.** Drug-loaded Tyrospheres for dermal delivery. 2016 New Jersey Symposium on Biomaterials Science: Today's Challenges & Innovations in Biomaterials Science, Marriott Renaissance Woodbridge Hotel, Iselin NJ, October 24-25, 2016.
- 28) **Michniak-Kohn, B.** Adapalene-loaded Tyrospheres for the treatment of acne. Innovations in Dermatological Sciences: Delivery of Actives to Skin, Marriott Renaissance Woodbridge Hotel, Iselin NJ, September 29-30, 2016.
- 29) **Michniak-Kohn, B.** Polymeric nanospheres for topical delivery of adapalene for acne. Rutgers 250 Pharmaceutical Science Symposium: Celebrating Rutgers 250 Years, September 12-13, 2016.
- 30) **Michniak-Kohn, B.** Chair, Organizer and Panelist at AAPS session "Topical semi-solid microstructure and its significance in formulation performance and efficacy". AAPS Annual Exposition and Meeting, Orlando, FL, October 25-29, 2015.
- 31) **Michniak-Kohn, B.** Invited Seminar at the Dept. of Basic Pharmaceutical Sciences, University of South Carolina, Columbia, SC. "Transdermal Permeation of Dimethyl Fumarate" July 22, 2015.
- 32) **Michniak-Kohn, B.** Skin models for in vitro performance testing of transdermal drug delivery systems. Invited talk at FDA/CDER's Center for Advancing Scientific Education (CASE) Workshop on "Product Quality of Transdermal Systems" May 5-6, 2015. Organizer K. Yellela Ph.D., Division of Product Quality Research, CDER/OPS/OTR at FDA.
- 33) **Michniak-Kohn, B.** Challenges in delivery of compounds into skin layers in personal care formulations. Invited talk at Colgate Palmolive, Piscataway, NJ. October 17th, 2014.
- 34) **Michniak-Kohn, B.** Transdermal Drug Delivery: Challenges and Best Current Approaches. Invited talk at the Catalent Applied Drug Delivery Institute launch of the Non-Invasive Macromolecule Delivery Consortium in San Diego, June 23rd, 2014.

- 35) **Michniak-Kohn, B.** Topical Treatment of Skin Disorders. Invited lecture at the Dermatological Society of New Jersey Annual Meeting, Princeton, NJ. May 17-18, 2014.
- 36) **Michniak-Kohn, B.** Nanocarriers for Topical Treatment of Psoriasis. Invited lecture at University of California-Riverside, February 24th 2014.
- 37) **Michniak-Kohn, B.** Future of Pharmacy Education: Professional and Graduate. Invited lecture at School of Pharmacy, University of Michigan, Ann Arbor, MI. February 6th 2014.
- 38) **Michniak-Kohn, B.** Nanoparticles for Skin Delivery, Invited talk at the opening of the Center for the Teaching and Research in Nanotechnology (Centrum Dydaktyczno-Badawcze Nanotechnologii), West Pomeranian University of Technology, Szczecin, Poland, June 15-23, 2013.
- 39) **Michniak-Kohn, B.** TyroSpheres as Delivery Vehicles for Topical Therapeutics. October 5th, 2012. Robert Wood Johnson Medical School Special Seminar, New Brunswick, NJ.
- 40) **Michniak-Kohn, B.** Developments of Human Skin Equivalents-TyroDerm. Invited Seminar at Johnson and Johnson Consumer Products, February 3, 2012.
- 41) **Michniak-Kohn, B.** Novel approaches to deliver compounds into the skin. Invited Seminar at The City College of New York, NY. November 14th 2011.
- 42) **Michniak-Kohn, B.** Academia-Industry Partnerships at Rutgers-Center for Dermal Research. NYSCC Technology Transfer Conference, Pleasantville Chateau, West Orange, NJ. November 9, 2011.
- 43) **Michniak-Kohn, B.** Novel nanotechnology approach to deliver of actives into skin layers. Invited Seminar at NJ Institute of Technology, Newark, NJ. September 26, 2011.
- 44) **Michniak-Kohn, B.,** Zhang, Z. Reconstructed human skin models. Skin Trailblazer 2nd Workshop, Prof. Robert Langer's Lab. and Embassy Suites, Boston, MA. August 5-7, 2011.
- 45) **Michniak-Kohn, B.** Tyrosine-derived nanoparticles for the topical treatment of psoriasis. Nano Drug Delivery Systems (NanoDDS) conference, Salt Lake City, UT. October 15-16, 2011.
- 46) **Michniak-Kohn, B.,** Zhang, Z. Development of human skin equivalents for permeability testing. Mighty Mouse Symposium: Models that Drive New Data (Bioscience Collaborative/CDR), Rutgers University- Life Sciences Building, June 8th 2011.
- 47) **Michniak-Kohn, B.,** Kilfoyle, B. Tyrospheres as delivery vehicles for topical therapeutics. Skin Deep Symposium Research on Skin Aging: Actives, Delivery and Formulations. Life Sciences Building, Rutgers University, June 20, 2011.
- 48) **Michniak-Kohn, B.** Development of human skin equivalents as permeability screening agents. Avon Products, Inc., Feb. 15th 2011, Suffern NY.
- 49) **Michniak-Kohn, B.** Batheja, P., Rai, V. Kohn, J. Permeability of compounds in simple vehicles and formulations using novel tissue cultured human skin membranes. Invited presentation at the 10th New Jersey Symposium on Biomaterials Science "From Materials Design to Scaffolds to Tissue Regeneration", October 27-28, 2010, New Brunswick, NJ.
- 50) **Michniak-Kohn, B.** Human skin equivalents as permeability screening models. Invited presentation at the Albany College of Pharmacy and Health Sciences, Pharmaceutical Sciences Seminar Series, Albany, NY, September 23, 2010.
- 51) Shen, Y., Elele, E., Pale, P. Khushid, K. **Michniak-Kohn, B.** Electrodeless drop-on-demand printing of personalized unit doses. AICHE Annual meeting, Salt Lake City, Nov. 7-12, 2010. PODIUM SESSION.

- 52) Rahman, A.K., Rahman, A., Kaushik, D., **Michniak-Kohn, B.** Terahertz study of transdermal drug delivery. American Chemical Society Middle Atlantic Regional Meeting, MARM 2010, April 10-13, 2010, Wilmington, DE. PODIUM SESSION.
- 53) Ghosh, J. **Michniak-Kohn, B.** Understanding interactions of propylene glycol and skin lipids using molecular dynamics simulation. ACS Fall meeting August 22-26, 2010, Boston, MA. PODIUM SESSION.
- 54) **Michniak-Kohn, B.** Performance and evaluation of tablets and novel polymer films. Industrial Advisory Board Meeting of Engineering Research Center on Structured Organic Particulate Systems, Purdue University, May 16-20, 2010.
- 55) **Michniak-Kohn, B.** Drug release and pharmaceutical dosage performance studies on tablets and polymer films. NSF Site Visit Meeting of Engineering Research Center on Structured Organic Particulate Systems, Mayaguez, Puerto Rico, March 21- 26, 2010.
- 56) **Michniak-Kohn, B.** Use of biomaterials in drug delivery applications. Nanyang Technological University, School of Materials Science and Engineering, Singapore April 2-5, 2010.
- 57) **Michniak-Kohn, B.** Advances in Skin Equivalent Models: PolyDerm as a new polymer skin model. Biomaterials and Nanomedicine Product Line Review, TATRC, USAMRMC, Frederick, MD. October 15, 2009.
- 58) **Michniak-Kohn, B.** Challenges in overcoming the stratum corneum barrier to compound penetration. Invited speaker at NYSCC meeting at The Manor, West Orange, NJ. Sept 9, 2009.
- 59) **Michniak-Kohn, B.** Transdermal Delivery Systems. Invited presentation to the FDA Advisory Committee for Pharmaceutical Science & Clinical Pharmacology, Washington DC August 5th, 2009.
- 60) **Michniak-Kohn, B.** Overcoming the skin barrier. University of New Mexico, College of Pharmacy (invited seminar series speaker), Sept. 14th 2009.
- 61) Batheja, P., Sheihet, L., Salomon, S., Singer, A., Kohn, J., **Michniak-Kohn, B.** Tyrosine-derived nanosphere formulations for enhanced skin delivery. Conference on Biomaterials in Medicine and Veterinary Medicine, Rytro, Poland. October 15-18, 2009. PODIUM SESSION.
- 62) **Michniak-Kohn, B.** Takhistov, P., Muzzio, F. Microdosing technologies for liquid dispensing. Capsugel (Pfizer, Inc.). Presentation to locations: Belgium, United Kingdom and US, June 18, 2009.
- 63) **Michniak-Kohn, B.** Career Paths in Academia. Invited lecture at AAPS National Biotechnology Annual Meeting, Seattle, WA, June 21-24, 2009.
- 64) **Michniak-Kohn, B.** Challenges with Percutaneous Drug Delivery. Plenary invited lecture at Skin Deep Symposium, Bioscience Collaborative, Princeton, NJ. Rutgers University, July 15, 2009.
- 65) **Michniak-Kohn, B.** Overcoming the challenges of the skin barrier. Invited presentation, Wake Forest University, Health Sciences Institute for Regenerative Medicine, Winston-Salem, NC, May 22, 2009.

- 66) **Michniak-Kohn, B.** Skin: One of Nature's Effective Membrane Barriers. Invited Lecture, Clemson University, Clemson SC, Feb 23, 2009.
- 67) **Michniak-Kohn, B.** Development of a synthetic membrane for transdermal testing. Invited lecture for Millipore Corporation, Danvers, MA, Oct. 24, 2008.
- 68) **Michniak-Kohn, B.** Pharmacokinetics and pharmacological studies of quercetin via various oral formulations. U.S. Army AIBS Review "Effects of Quercetin on Human Health, Physical and Cognitive Performance: Status of the Science" meeting, Sept. 22-23, 2008, Natick Conference Center, Natick, MA.
- 69) **Michniak-Kohn, B.** Performance and evaluation of powder blends and tablet dissolution. Industrial Advisory Board Meeting of Engineering Research Center on Structured Organic Particulate Systems, Rutgers University, Sept 15-16, 2008.
- 70) **Michniak-Kohn, B.** The future of topically applied medications and medical devices. American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Outreach Program held at Annual Meeting of AAPS, Atlanta, Nov. 15, 2008.
- 71) **Michniak-Kohn, B.** A perspective of faculty life in a research-intensive university. American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Roundtable on Careers in Academia held at Annual Meeting of AAPS, Atlanta, Nov. 15, 2008.
- 72) **Michniak-Kohn, B.** Pharmacokinetics of orally administered quercetin in human volunteers. U.S. Army Natick, MA Program Meeting, July 10th, 2008.
- 73) **Michniak-Kohn, B.** Cool approaches to future medicines. American Association of Pharmaceutical Scientists (AAPS) Student and Post Doctoral Outreach and Development (SPOD) Committee Outreach Program held at University of Toronto, June 21, 2008.
- 74) **Michniak-Kohn, B.** Design and validation of a human skin alternative for permeability testing. HBA Global Exposition and Educational Conference, Sept. 11, 2008. Jacob Javits Convention Center, New York City.
- 75) **Michniak-Kohn, B.** Transport of actives in skin: enhancers vs. retardants. 3rd Annual Drug Delivery 2008, Hilton Del Mar, San Diego, July 28th-30th, 2008.
- 76) **Michniak-Kohn, B.** Transdermal Drug Delivery: challenges and possibilities. University of Coimbra College of Pharmacy and College of Chemistry Invited Seminar Speaker, Coimbra, Portugal, April 24th, 2008.
- 77) **Michniak-Kohn, B.** Tyrosine-derived nanospheres for enhanced skin permeability. Skin Summit II, Feb. 20-21, 2008. Philadelphia Park, Hyatt, Philadelphia. Invited Speaker, Chair of Conference and Member of Programming Committee.
- 78) **Michniak-Kohn, B.** Percutaneous Penetration Modifiers: Enhancement vs. Retardation. AAPS Annual Meeting and Exposition, November 11-15, 2007, San Diego Convention Center, San

Diego, CA. Invited plenary session at Symposium entitled “New Paradigms in the Field of Chemical Penetration Enhancers”.

- 79) **Michniak-Kohn, B.** Aging Skin: Impact on Permeability Barrier. HBA Global Exposition and Educational Conference, Sept. 18-20, 2007. Jacob Javits Convention Center, New York City.
- 80) **Michniak-Kohn, B.** Novel nanospheres and drug targeting to skin layers. Barrier Therapeutics, Inc., Princeton, NJ, Sept. 27, 2007.
- 81) **Michniak-Kohn, B.** Latest patents relating to enhanced skin penetration. Workshop “Skin Frontier: Trailblazing the Skin Frontier: Evidence Base, Opportunities and Training”, George Washington University, DC, August 11-13, 2007. Invited Speaker.
- 82) **Michniak-Kohn, B.** Targeting of compounds into skin and use of a novel skin model. L’Oreal in Clark, NJ, and presentation videoconferenced live to L’Oreal, Paris, France, July 18, 2007. Invited speaker.
- 83) **Michniak-Kohn, B.** Controlled release of actives in skin. 34th Annual Meeting of the Controlled Release Society, Long Beach, CA, July 7-11, 2007. Invited speaker.
- 84) **Michniak-Kohn, B.** Challenges in topical and transdermal drug delivery: overcoming the stratum corneum barrier. Spotlight on Skin Research Workshop, Rutgers University, Busch Campus, June 25th 2007. Organizer and speaker.
- 85) **Michniak-Kohn, B.** Crossing the Barrier: Transdermal and Topical Drug Delivery. Invited Speaker at Center of Emphasis, Pfizer, Inc., Groton, CT. June 21-22, 2007.
- 86) **Michniak-Kohn, B.** Approaches to targeting actives to skin layers. 2nd annual Drug Delivery Conference 2007, US Grant Hotel, San Diego, CA, June 6-8, 2007. Invited Speaker.
- 87) **Michniak, B.,** Thakur, R. and Shah, K. Enhancement of skin permeation of actives by a novel bioadhesive polymer delivery system. Society of Cosmetic Chemists Annual Meeting, May 10-11, 2007, Anaheim Marriott, Anaheim, CA. Invited podium presentation.
- 88) **Michniak-Kohn, B.** Challenges in Targeting Actives to the Skin. New Jersey Skin Club, Piscataway, NJ Feb. 27, 2007. Invited presentation.
- 89) **Michniak-Kohn, B.** Transdermals: Physiology, design of dosage form, release profiles, safety, new technologies. Invited presentation for Introduction to Drug Delivery Meeting, East Brunswick, NJ April 19-20, 2007.
- 90) **Michniak-Kohn, B.** Topical Delivery Strategies, Barrier Therapeutics, Inc., Princeton NJ Jan 22, 2007.
- 91) **Michniak-Kohn, B.** Trends in delivery technology for dermatological therapies. Scientific Advisory Board Meeting, Biovail Corporation, Short Hills Hilton, Short Hills, NJ, Nov 3rd, 2006.
- 92) **Michniak-Kohn, B.** Cool approaches to Delivery of Medicines, Feik School of Pharmacy, University of the Incarnate Word, San Antonio, TX October 28th, 2006. Part of High School Outreach Program of SPOD Committee of AAPS.

- 93) **Michniak-Kohn, B.** Targeted Delivery to Skin: challenges and solutions. Drug Delivery and Translational Research Conference, Polytechnic University, Brooklyn, NY, Dec. 4-5, 2006. Invited Plenary Speaker.
- 94) **Michniak-Kohn, B.** Overcoming Barriers: In Skin and In Careers. Bristol-Myers-Squibb, April 6, 2006. Invited Speaker.
- 95) **Michniak-Kohn, B.** Challenges in Targeted Delivery to Skin. Cosmeceuticals Summit 2006 - Current Trends in the Research, Development and Marketing of Cosmeceutical Products for Skin Care Applications. Miami, FL. March 23-24, 2006. Invited Plenary Speaker.
- 96) **Michniak, B.** Development of a Human Skin Equivalent (HSE) Permeability Model for Evaluation of Protectants from Chemical Warfare Agents. Product Line Review: Biomaterials and NanoMedicine. Telemedicine and Advanced Technology Research Center of the U.S. Army Medical Research and Materiel Command, Frederick, MD, Feb 7th, 2006. Invited Speaker.
- 97) **Michniak, B.** Reverse site visit for the NSF Proposal # 0540855 C-SOC Center for Structured Organic Composites for Pharmaceutical, Nutraceutical and Agrochemical Applications. Washington, DC, January 10-11, 2006.
- 98) **Michniak, B.** Challenges with Skin Targeting of Actives. Senesco Technologies, Inc., New Brunswick, NJ. Jan 17th, 2006. Invited Speaker.
- 99) **Michniak, B.** Beyond Drug Eluting Stents: The Next Frontier in Drug Delivery. 2006 FDA Science Forum, A Century of FDA Science: Pioneering the Future of Public Health. April 18-20, 2006, Washington Convention Center, Washington DC. Invited Speaker.
- 100) **Michniak, B.** Challenges and Approaches to Topical Delivery of siRNA and other drugs. Pachyonychia Congenita Project Meeting, May 2-3, 2006, Philadelphia, PA. Invited Speaker.
- 101) **Michniak-Kohn, B.** Skin and Transdermals: Overcoming the Barriers. Drug Delivery 2006 Conference, San Diego, CA, May 17-19, 2006. Invited Plenary Speaker.
- 102) **Michniak, B.** Challenges in Overcoming the Skin Permeability Barrier. AAPS annual meeting, San Antonio, TX, Oct 29-Nov 2, 2006. Invited Speaker.
- 103) **Michniak, B.** In vitro skin models for estimating percutaneous penetration of drugs. Invited Plenary Speaker at ADMET II conference, San Diego, CA, Feb 8-10, 2005.
- 104) **Michniak, B.** Issues in Topical and Transdermal Delivery of Drugs. ICI-National Starch, Bridgewater, NJ. Feb. 11, 2004. Invited lecture.
- 105) **Michniak, B.** Thoughts on bricks and mortar: challenges in skin research. New York Society for Cosmetic Scientists meeting, New Brunswick, NJ, Nov. 3, 2004. Invited Lecture.
- 106) **Michniak, B.** Chemical and Physical Enhancement of Drug Delivery to Skin. New Jersey Institute of Technology Spring 2004 Seminar Series, Otto H. York Dept. of Chemical Engineering, April 5, 2004. Invited lecture.

- 107) **Michniak, B.** Cellular and Animal Model Screening of Potential-Performance Enhancing Nutraceuticals. U.S. Army Soldier and Biological Chemical Command, Natick Soldier Center, Natick, MD, March 25, 2004.
- 108) **Michniak, B.** Enhancer-aided transdermal and buccal delivery of nutritional supplements. U.S. Army Soldier and Biological Chemical Command, Natick Soldier Center, Natick, MD, March 25, 2004.
- 109) **Michniak, B.** Skin Barrier Technologies. Invited lecture at the Technology R&D Roadmap Workshop “Capturing the Full Power of Biomaterials for Military Medical Needs”, Woodbridge Hilton, Iselin, NJ, Feb. 2-4, 2004.
- 110) **Michniak, B.** Aspects of transdermal and topical drug delivery: Challenges and Opportunities. Lecture at Pfizer Consumer Healthcare, Morris Plains, NJ. Nov 21, 2003. INVITED Lecture.
- 111) **Michniak, B.B.** and Wang, Y. A bioengineered skin construct for drug permeability testing. New Jersey Skin Club, Nov 11, 2003. Invited lecture.
- 112) **Michniak, B.B.** Needs driven development of biomaterials technologies: skin models and agent permeation testing. Presentation for Mr. C. Clyburn, Telemedicine & Advanced Technology Research Center (TATRC), US Army Medical Research & Materiel Command. June 23, 2003.
- 113) **Michniak, B.B.** Issues in topical and transdermal skin permeation: relevance to nutraceutical products. Invited lecture from Center for Advanced Food Technology (CAFT), Rutgers-The State University of New Jersey. June 10, 2003.
- 114) **Michniak, B. B.** Issues on platform technologies within the Industrial Membership Program of the NJ Center for Biomaterials. Joint Industrial Programs Workshop, UMDNJ-Robert Wood Johnson Medical School, May 22, 2003.
- 115) **Michniak, B.** Transdermal delivery of buspirone hydrochloride using iontophoresis. Invited seminar at Clemson University, Clemson, SC. Bioengineering Colloquium, April 4, 2003.
- 116) **Michniak, B.B.** Updates on the Industrial Membership Program of the New Jersey Center for Biomaterials 2001-2002. Industrial Advisory Board Member meeting, Avon World headquarters, New York Jan 17, 2003.
- 117) **Michniak, B.** Transdermal delivery of buspirone hydrochloride using iontophoresis. Invited lecture at the Dept. of Pharmacology and Physiology, New Jersey Medical School. March 3, 2003.
- 118) **Michniak, B.** Tissue Engineered Skin: a model for drug permeability screening. Invited lecture, Dermatology Grand Rounds, New Jersey Medical School, Newark, NJ. Feb. 24, 2003.
- 119) **Michniak, B.B.** Buccal and transdermal delivery of selected stimulant drugs and nutraceutical agents. University of South Carolina, Medical School, Feb 11, 2003.
- 120) Ocheltree, T.W., Shah, J.C., Mehta, R., **Michniak, B.B.** Epidermal and dermal delivery of an antisense oligonucleotide using liposomes and lipid complexes. The ACS Division of Colloid and Surface Science, Colloidal Drug Delivery Symposium, ACS Annual meeting, Orlando, FL, April 7-11, 2002. Invited podium Speaker.

- 121) **Michniak, B.**, Ocheltree, T.W., Shah, J.C., Mehta, R. Epidermal and dermal delivery of an antisense oligonucleotide using liposomes and lipid complexes. Gene Delivery Workshop, NJ Center for Biomaterials, May 15-16, 2002, Somerset, NJ. Invited Podium Session.
- 122) **Michniak, B.B.** Skin and drug delivery. Stevens Institute of Technology, Dept. of Chemical, Biochemical & Materials Engineering, Hoboken, NJ. March 29, 2002.
- 123) **Michniak, B.B.** Topical delivery of antisense oligonucleotides using lipid complexes and liposomal carriers. Gene Delivery Workshop, New Jersey Center for Biomaterials, Marriott Hotel, Somerset, NJ. May 15-16, 2002.
- 124) **Michniak, B.B.** Updates on Industrial Membership Program of NJ Center for Biomaterials: Planning of Symposia and Workshops. Marriott Hotel, Somerset, NJ. Oct 16-18, 2002.
- 125) **Michniak, B.B.** Development of a skin model for drug permeability testing. Pharmaceutics Conference 2001: Current and Future Issues in Dermal Drug Delivery and Pharmaceutics, Hilton Hotel, East Brunswick, NJ, Nov 9, 2001 (In honor of Prof. Joel Zatz's retirement). Podium session.
- 126) **Michniak, B.** Culturing skin cells and validation of a skin model for drug screening. Invited presentation at Lifecell Corporation, Branchburg, NJ, Feb. 1st, 2001.
- 127) **Michniak, B.** Capabilities of Laboratory for Drug Delivery: formulation and iontophoresis. Invited presentation, Vyteris, Inc., Fairlawn, NJ. April 5th, 2001.
- 128) **Michniak, B.** Optimization of transdermal and topical skin formulations. Invited presentation at Avon Products, Suffern, NY. May 7th, 2001.
- 129) **Michniak, B.** Skin physiology and skin formulations. Invited lecture at Unilever, Edgewater, NJ. Dec. 10th, 2001.
- 130) **Michniak, B.** Skin Delivery of Antisense Oligonucleotides. Invited lecture at The Pennsylvania State University, The Jake Glitten Cancer Research Institute, Hershey, PA. Sept. 18-19, 2001.
- 131) **Michniak, B.B.** Issues in transdermal drug delivery: physical and chemical enhancement methods. Lecture in "Science in Digestion" Series, Dept. of Pharmacology & Physiology, New Jersey Medical School, Newark, NJ. Sept 14, 2001.
- 132) **Michniak, B.B.** Issues in Dermatopharmaceutics: Problem Solving Issues. New Jersey Center for Biomaterials, Faculty Retreat, New Jersey Institute of Technology, Newark, NJ. Dec 4, 2001.
- 133) **Michniak, B.B.** Topical Formulations: Design and Development. Technomic two-day workshop. Technomic Publishing Co., Cincinnati, OH, June 10-13, 2000. **Presented 50% of all lectures** with other 50% by Gerald Kasting, Proctor and Gamble, Cincinnati, OH.
- 134) Asbill, C.S., El-Kattan, A., Kohn, J., **Michniak, B.B.** Proliferation of primary human fibroblasts and keratinocytes on polycarbonate and polyarylate biodegradable polymer films. The 5th New Jersey Symposium on Biomaterials Science, Nov. 9-10, 2000. **PODIUM SESSION.**

- 135) **Michniak, B.B.** Biomaterials and drug delivery Part I. Presentation to Biocure, Inc., Atlanta, GA Jan 27-30, 2000.
- 136) **Michniak, B.B.** Percutaneous evaluation of benzoyl peroxide and salicylic acid from Poly-Pore E lotions. Presentation to Chemdal Corporation, Palatine, IL.
- 137) **Michniak, B.B.** Percutaneous penetration studies with chlorhexidine gluconate and other agents. Kimberly Clark Corporation, Roswell, GA. Feb 24-27, 2000.
- 138) **Michniak, B.B.** Biomaterials and drug delivery Part II. Presentation to Biocure, Inc., Atlanta, GA. April 9-10, 2000.
- 139) **Michniak, B.** Skin Delivery of Antisense Oligonucleotides. Invited lecture at The Pennsylvania State University, The Jake Glitten Cancer Research Institute, Hershey, PA. July 26-27, 2000.
- 140) **Michniak, B.B.** A novel skin construct: use for drug permeability testing. Integra Lifesciences Corporation, San Diego, CA. May 6-10, 2000.
- 141) **Michniak, B.B.** In Vitro activities of novel dermal penetration enhancers. Gordon Research Conference Barrier Function of Mammalian Skin. Il Ciocco, Barga, Italy, April 18-23, 1999. INVITED PODIUM.
- 142) Asbill, C.S., Kim, N., Creek, K.E. and **Michniak, B.B.** Transdermal penetration through bioengineered skin. The Society for Biomaterials 25th Annual Meeting in conjunction with the 31st International Biomaterials Symposium, April 28-May 2, 1999. Providence, RI. PODIUM SESSION.
- 143) Asbill, C., Kim, N., Creek, K., **Michniak, B.B.** The validation of bioengineered skin as a drug permeability model. The 26th International Symposium on Controlled Release of Bioactive Materials, Boston, MA, June 20-25, 1999. PODIUM SESSION.
- 144) **Michniak, B.B.** Percutaneous Penetration Enhancers: Local versus transdermal activity. AAPS 13th Annual Meeting, San Francisco, CA. November 15-19, 1998. INVITED SPEAKER. Pharm. Res. (1998), 1 (1) S607.
- 145) **Michniak, B.B.** The in vitro evaluation of a human bioengineered skin equivalent as a potential permeability test. Second Tissue Engineering Academic-Industrial Workshop of the South Carolina Tissue Engineering Alliance. Charleston, SC., Nov 12, 1999.
- 146) **Michniak, B.B.** Design and validation of a tissue-cultured human skin alternative. Dept. of Chemistry, The State University of NJ Rutgers, Piscataway, NJ. July 16, 1999.
- 147) **Michniak, B.B.** Studies on a novel bioengineered skin equivalent as a model for drug permeability investigations. The University of Maryland, College of Pharmacy, Baltimore, Sept. 3, 1999.
- 148) **Michniak, B.B.** Topical Formulations: Design and Development. Technomic two-day workshop. Technomic Publishing Co., Toronto, Canada, May 3-4, 1999. Presented 50% of all lectures with other 50% by Gerald Kasting, Proctor and Gamble, Cincinnati, OH.
- 149) **Michniak, B.B.** Percutaneous Penetration Enhancers: Local vs. Transdermal Delivery. University of Medicine and Dentistry of New Jersey, Jan. 15, 1999.

- 150) **Michniak, B.B.** Introduction to Topical Dosage Forms. Dermatologicals: Formulation, Screening Methods, Toxicity Testing, Skin Penetration Enhancement, Bioequivalence and Regulatory Issues, Zurich, Switzerland, Oct. 18-20,1999.
- 151) **Michniak, B.B.** Skin Penetration Enhancement by Chemical Penetration Enhancers. Dermatologicals: Formulation, Screening Methods, Toxicity Testing, Skin Penetration Enhancement, Bioequivalence and Regulatory Issues, Zurich, Switzerland, Oct. 18-20, 1999.
- 152) **Michniak, B.B.** Introduction to Topical Dosage Forms. Dermatologicals: Formulation, Screening Methods, Toxicity Testing, Skin Penetration Enhancement, Bioequivalence and Regulatory Issues, Toronto, Canada, May 3-4,1999.
- 153) **Michniak, B.B.** Skin Penetration Enhancement by Chemical Penetration Enhancers. Dermatologicals: Formulation, Screening Methods, Toxicity Testing, Skin Penetration Enhancement, Bioequivalence and Regulatory Issues, Toronto, Canada, May 3-4, 1999.
- 154) **Michniak, B.B.** Bioengineering New Skin for Drug Penetration Testing. University of Medicine and Dentistry of New Jersey, Pharmacology Dept., Newark, NJ, March 26th, 1999.
- 155) **Michniak, B.B.** Percutaneous Drug Penetration: Overcoming the Barriers. Medical University of South Carolina, Charleston, SC. March 18th, 1999.
- 156) **Michniak, B.B.** A Novel Bioengineered Human Skin Model. Clemson University, Clemson, SC. May 18th, 1999.
- 157) **Michniak, B.B.** Development of a Novel Bioengineered Skin Model. 1999 Bioengineering Alliance Annual Meeting, Medical University of South Carolina, Charleston, SC. June 30th, 1999.
- 158) **Michniak, B.B.** A Novel Bioengineered Skin for Drug Permeability Testing. Isis Pharmaceuticals, Inc., Carlsbad, CA, March 25th, 1999.
- 159) **Michniak, B.B.** A Tissue Engineered Human Skin Model. National Institutes of Health, March 1st, 1999.
- 160) **Michniak, B.B.** Transdermal Permeation Enhancers and Drug Delivery of Proteins/Peptides to/through Skin. Isis Pharmaceuticals, Inc., Carlsbad, CA, March 25th, 1999.
- 161) **Michniak, B.B.** Transdermal Drug Delivery: Options and Challenges. Pharmacia and Upjohn, Kalamazoo, MI, May 10th 1999.
- 162) **Michniak, B.B.** Development of a Tissue-cultured Skin Alternative. Baxter Healthcare, Round Lake, IL, Feb. 15th, 1999.
- 163) **Michniak, B.B.** Novel Advances in Skin and Dermatological Research, Chemdal Corporation., Palatine, IL, Feb.12th, 1999.
- 164) **Michniak, B.B.** Drug permeation enhancement and liposomal approaches. Janssen Pharmaceuticals, Inc., Beerse, Belgium, Oct. 30, 1998.
- 165) **Michniak, B.B.** A study of the percutaneous penetration of chlorhexidine digluconate in vitro. Kimberly Clark Corp., Roswell, GA, Dec. 11, 1998.
- 166) **Michniak, B.B.** A novel bioengineered skin alternative: initial data. Integra Life Sciences Inc./NIST Meeting, La Jolla, CA, Nov. 12, 1998.
- 167) **Michniak, B.B.** Topical formulations: design and development. Technomic two day workshop, Cincinnati, OH. October 15-16, 1998. Presented 50% of all lectures, other 50% presented by Gerald Kasting from Proctor and Gamble, Cincinnati, OH.

- 168) **Michniak, B.B.** Topical formulations: design and development. Technomic two day workshop, Hotel International, Basel, Switzerland. October 26-27, 1998. Presented 50% of all lectures with other set presented by Gerald Kasting, Proctor and Gamble, Cincinnati, OH (now at University of Cincinnati).
- 169) **Michniak, B.B.** Enhancement of drug permeation into and across skin. Annual Bioengineering Alliance of South Carolina Annual Meeting, Swearingen Engineering Center, USC, Columbia, SC. April 20, 1998.
- 170) **Michniak, B.B.** Molecular modeling of chemical penetration enhancer activities. Fifth Joint University of South Carolina/ Medical University of South Carolina Pharmaceutical Sciences Symposium, Charleston, SC. April 3, 1998. Invited session.
- 171) **Michniak, B.B.** Drug delivery into skin: Liposomal approach and validation of a novel human skin equivalent. Seminar, Rutgers University, Department of Chemistry, May 29, 1998.
- 172) **Michniak, B.B.** Approaches to enhancement of percutaneous absorption of drugs. Seminar, University of Iowa, College of Dentistry, Dows Institute, May 19, 1998.
- 173) **Michniak, B.B.** Enhancement of drug delivery across the skin: Design and use of chemical penetration enhancers. Clemson University, Sponsored by Department of Bioengineering, SC Bioengineering Alliance and GHS/CU Biomedical Cooperative, Wednesday, March 11, 1998.
- 174) **Michniak, B.B.** Structure-activity relationships in a series of dimethyl (arylimino) sulfuranes tested for dermal enhancement activity in vitro. Seminar at the Department of Chemistry, Georgia State University, Atlanta, GA, October 13, 1997.
- 175) **Michniak, B.B.** Dermal penetration enhancers: concentration and vehicle effects. Arnold and Marie Schwartz College of Pharmacy and Health Sciences, Long Island University, New York, February 12, (1996).
- 176) **Michniak, B.B.** Radio interview (live) with Gary Pozsik of WLXC Radio, Lexington, SC, on Friday, February 27, 1995, entitled "Transdermals."
- 177) **Michniak, B.B.** Interview with Karen Tant for USC Press Release entitled "USC researchers develop skin alternative for testing drugs," October 21, 1994.
- 178) **Michniak, B.B.** Alternative skin can advance drug research. The Gamecock, November 19, 1994.
- 179) **Michniak, B.B.** Novel dermal penetration enhancers: effect of vehicles and pretreatment. Seminar presented on October 28 (1994) at 3M Pharmaceuticals, St. Paul, MN.
- 180) **Michniak, B.B.** "Research on percutaneous absorption," Radio interview with Shelley Kriegshaker, USC Office of Marketing and Media Relations, February 14, 1994. Broadcast during USC basketball game.
- 181) **Michniak, B.B.** "An insulin patch?," interview with Dorothy Schneider (The Diabetic Organ Transplant Network, Inc.) for The New Life Times Newsletter, on October 26, 1993.
- 182) **Michniak, B.B.** Pharmacy professor researches new ways to administer more drugs through patches. USC Times, August 10 (1993).
- 183) **Michniak, B. B.** "Transdermal patch drug delivery." Interview with Julie Jordan, broadcast on WOLO Channel 25 News, Columbia, SC, 6:00 and 11:00 p.m., July 22, 1993.
- 184) **Michniak, B.B.** "Researcher's work toward insulin patch." Interview with Ellen Dockham, "The Greenville News," Greenville, SC, July 15 (1993).

- 185) **Michniak, B.B.** Novel (trans)dermal enhancers: pyrrolidinone and Azone analogs. Arnold and Marie Schwartz College of Pharmacy and Health Sciences, Long Island University, Brooklyn, NY, June 14 (1993).
- 186) **Michniak, B.B.** Organizer and presenter at an "Examination Workshop for Undergraduate Pharmacy Students," March 25, 1992, at the College of Pharmacy.
- 187) **Michniak, B.B.** "Optimization of (trans)dermal drug delivery." School of Chemical and Materials Engineering, Clemson University, Clemson, SC, Oct. 30, (1992).
- 188) **Michniak, B.B.** "Development of novel non-toxic penetration enhancers." Leicester Polytechnic, School of Pharmacy, April 14, 1992, Leicester, U.K.
- 189) **Michniak, B.B.** "Biotechnology is Promising," interview with Kathleen Whitten The State Newspaper, July 17, 1990.
- 190) **Michniak, B.B.** "Pills might be on the way out," interview with Kathleen Whitten The State Newspaper, July 19, 1990.
- 191) **Michniak, B.B.** "A Search for the Penultimate Dermal Penetration Enhancer." BPS Seminar Series, University of South Carolina, April, 27, (1990).
- 192) **Michniak, B.B.** "Angina and Newer Transdermal Delivery Systems." CE Seminar, University of South Carolina, April, (1990).
- 193) **Michniak, B.B.** "Stratum corneum and water." College of Pharmacy, University of South Carolina, October, (1986).
- 194) **Michniak, B.B.** "Interaction of stratum corneum with water." Uniformed Services University of Health Sciences. F. Edward Herbert, School of Medicine, Bethesda, Maryland, January, (1986).
- 195) **Michniak, B.B.** "Interaction of stratum corneum with water vapour." Physical Nature of the Skin. A course and presentation of new data. Cardiff, U.K., November, (1985).
- 196) **Michniak, B.B.** "Techniques for assessing levels of skin hydration in vitro." Pharmacia Symposium, Uppsala, Sweden, September, (1985).
- 197) **Michniak, B.B.** "Water sorption and desorption in skin." University of Bradford, Bradford, West Yorkshire, U.K., May, (1985).
- 198) **Michniak, B.B.** "An investigation of the mechanism by which aluminum and other polyvalent cations inhibit eccrine sweating." University of Florida, Gainesville, September, (1982).
- 199) **Michniak, B.B.** "Eccrine sweating in humans." Paper presented at Beecham Products Annual Seminar, Leatherhead, Surrey, U.K., April (1980).
- 200) **Michniak, B.B.** "Hemodynamics of blood flow." School of Pharmacy, Leicester Polytechnic, Leicester, U.K., September, (1977).