

CURRICULUM VITAE*Arturo Casadevall***PERSONAL DATA**

W. Harry Feinstone Department of Molecular Microbiology and Immunology
 Johns Hopkins Bloomberg School of Public Health
 615 N. Wolfe Street, E5132
 Baltimore, MD 21205
 Phone: 410-955-3457
 FAX: 410-955-0105
 E-Mail: acasad1@jhu.edu

EDUCATION AND TRAINING*Degree/Year Institution and Field Postdoctoral Training Medical or Other Licensure*

Year	Degrees/Certificate	Discipline	Institution
Undergraduate			
1979	B.A. (Magna Cum Laude)	Chemistry	Queens College, CUNY
Doctoral/graduate			
1983	M.S.	Biochemistry	New York University
1984	Ph.D.	Biochemistry	New York University
1985	M.D.	Medicine	New York University
Postdoctoral			
1985-1988	Bellevue Hospital - NYU Medical Center Internship and Residency in Internal Medicine		
1988-1989	Albert Einstein/Montefiore Medical Center Fellowship in Infectious Diseases		
1989-1991	Postdoctoral Fellowship with Dr. Matthew D. Scharff of Cell Biology, Albert Einstein College of Medicine		
1991	Cold Spring Harbor Course on Yeast Genetics		

Medical Board or Other Certification

2013-2023	American Board in Internal Medicine Certified in the Subspecialty of Infectious Diseases American Board in Internal Medicine Specialist in Internal Medicine	
1990	Diplomate in the Subspecialty of Infectious Diseases	
1988	Diplomate in the Specialty of Internal Medicine	
1986	National Board of Medical Examiners Diploma	

PROFESSIONAL EXPERIENCE (*annotate as appropriate*)

Alfred & Jill Sommer Prof. & Chair	2015-Present	JH Bloomberg Sch. of Public Health Dept of Molecular, Microbiol. & Immunol
Visiting Prof of Med. & Microbiol. & Immunol.	2015-present	Albert Einstein College of Medicine
Director, Ctr for Immunological Sciences	2013-15	Albert Einstein College of Medicine
Leo and Julia Forchheimer Professorship	2006-15	Albert Einstein College of Medicine
Chair, Dept of Microbiology & Immunology	2006-15	Albert Einstein College of Medicine
Interim Chair, Dept of Microbiol. & Immunol.	2005-06	Albert Einstein College of Medicine
Selma and Jacques Mitrani Professorship	2002-06	Albert Einstein College of Medicine

ALXN2023
IPR2023-00933

ALXN2023
 IPR2019-00740

Director, Division of Infectious Diseases	2000-06	Montefiore Medical Ctr-Albert Einstein
Professor, Med. & Microbiol. & Immunology	2001-15	Albert Einstein College of Medicine
Assoc. Prof, Med. & Microbiol. & Immunol.	1996-01	Albert Einstein College of Medicine
Asst. Prof. Med. & Microbiol. & Immunol.	1992-96	Albert Einstein College of Medicine

PROFESSIONAL ACTIVITIES

American Association for the Advancement of Science
 American Association of Immunologists
 American Society for Clinical Investigation
 American Society for Microbiology
 Medical Mycology Society of the Americas
 Fellow, Infectious Disease Society of America
 Harvey Society
 Interurban Clinical Club
 Practitioner's Society
 National Academy of Medicine
 American Academy of Arts and Sciences

Service to Scientific Societies

1998-2000	Vice-President, New York Mycology Society
2000-02	President of New York Mycology Society
1998, 2002	Nominating committee for American Society for Microbiology (ASM) Division F officers
1998-2000	Councilor, New York Society for Infectious Diseases
2005	ASM Division F Chair Elect
2005	Nominated as Candidate for President of ASM
2006-09	Chair, ASM Career Development Committee
2004-07	ASM Abbot Award Selection Committee
2007-10	ASM Committee on Awards
2008-11	ASM Membership Election committee
2008-11	ASM Communications Committee
2008-11	ASM Minority Recruitment Committee
2008-present	ASM Minority Affairs Committee
2014-16	American Association of Immunology Minority Affairs Committee
2008-09	Medical Mycology Society of America President
2011-14	Elected Member-at-Large, AAAS Section on Medical Sciences
2014-16	American Association for Immunology Minority Affairs Committee
2012-15	Research Committee of the IDSA
2016-19	Elected Chair of the Board of Governors of the American Academy of Microbiology
2017	Elected Member of the American Academy of Arts and Sciences

Conference Organizer, Session Chair

1997	13th Congress of the International Society of Human and Medical Mycology, Parma Italy. Convener of symposium titled: Cell-mediated versus antibody mediated-protection mechanisms in fungal diseases: an ongoing dilemma.
1997	Program committee: The Fourth NIAID Workshop in Medical Mycology, Lake Tahoe
1999	Scientific Committee: Fourth International Meeting on Cryptococcus and Cryptococcosis, London
2000	Organizer, Bacteriology and Mycology Horizons for the 21 st century. A symposium in honor of Dr. William Branche, NIH, Shannon Building
2001	Convener, Symposium Host defense against fungi: application toward therapeutics and vaccine development. American Society of Microbiology, Orlando

2002 Scientific Committee: Fifth International Meeting on Cryptococcus and Cryptococcosis, Adelaide, Australia

2005 Scientific Committee: Six International Meeting on Cryptococcus and Cryptococcosis, Boston

2005 United States National Organizing Committee. International Union of Microbiological Societies Meeting. Representative for the American Society of Microbiology. San Francisco

2004 IDSA Program Committee

2006 IDSA Program Chair

2006 Scientific Committee. 13th Congress of the International Society of Human and Medical Mycology, Paris, France

2006 Scientific Committee. ASM Biodefense Meeting, Baltimore

2007 Co-chair, ASM colloquium on 'The fungal kingdom: diverse and essential roles in the earth's ecosystem' Developer of Division F program for ASM General meeting

2009, 2010 ASM Colloquium Advisory Committee

2010, 2012, 2015, 2017 Organizing committee for Model Host Meeting, Crete

2011 Gordon Conference on Chemical & Biological Terrorism Defense 2011 organizing committee

2010-2013 Keystone Symposia Scientific Advisory Board

2013-16 ASM General Meeting Program Chair

Consultantships

2006-11 Consultant, Pain Therapeutics

2012-14 Pfizer Resident Professors Program

Research Program Building / Leadership

2000-06 Director, Div. of Infectious Diseases Montefiore Medical Ctr-Albert Einstein
I was responsible for: 1) supervising clinical activities of the Division of Infectious Diseases in two hospitals (Montefiore and Weiler); 2) recruitment physician scientists; 3) mentoring faculty and fellows.

2006-14 Chair, Dept of Microbiology & Immunology Albert Einstein College of Medicine
I was responsible for: 1) supervising basic science department; 2) recruited six new faculty scientists; 3) mentored faculty, fellows and graduate students.

2015-present Chair and Alfred and Jill Sommer Professor, Bloomberg Distinguished Professor, W. Harry Feinstone Department of Molecular Microbiology & Immunology Johns Hopkins Bloomberg School of Public Health

EDITORIAL ACTIVITIES

1994 Journal of Medical and Veterinary Mycology, Guest Section Editor

1995-1997 Journal of Medical and Veterinary Mycology, Associate Editor

1995-2001 International Journal of Infectious Diseases, Editor

1997-2005 Infection and Immunity - Editorial Board

2005-2009 Infection and Immunity, Editor

1997-present Revista Iberoamericana de Micologia, Editorial Board

1996-present Emerging Infections Disease Editorial Board

2000 Section Editor-Host-Pathogen Interactions. Current Opinion in Microbiology

2004-present Expert Opinion on Emerging Drugs, Editorial Board

2005-present BMC Infectious Diseases, Editorial Board

Future Microbiology – Editorial Board

Faculty of 1000 Contributor

2003-present Nature Reviews in Microbiology – Highlights Advisor

2007-present Journal of Experimental Medicine – Editorial Board

2004-2012 Journal of Clinical Investigation – Editorial Board

2012-present Journal of Infectious Diseases Editorial Board
 2010-present mBio – Founding Editor and EIC
 2013 Section Editor-Host-Pathogen Interactions. Current Opinion in Microbiology

Journal Reviewer (partial list)

Antimicrobial Agents and Chemotherapy
 American Journal of Epidemiology
 American Journal of Pathology
 Canadian Journal of Microbiology
 Cell
 Cellular Immunology Clinical Microbiology Reviews
 Clinical Infectious Diseases
 Emerging Infectious Diseases
 FEMS Immunology and Medical Microbiology
 Fungal Genetics and Biology
 Genes and Development
 Journal Clinical Investigation
 Journal of Experimental Medicine
 Journal of Infectious Diseases
 Infection and Immunity
 Immunity
 Journal of Clinical Microbiology
 Journal of Molecular Evolution
 J. Immunological Methods
 Journal of Immunology
 Journal of Medical and Veterinary Mycology
 J. Neuroimmunology
 International Journal of Infectious Diseases
 Immunity
 Infectious Diseases in Clinical Practice
 Lancet
 Microbes and Infection
 Journal of Molecular Biology
 Nature Medicine
 Revista Iberoamericana de Micologia
 Molecular and Cellular Biology
 Laboratory Investigation
 Life Sciences
 Microbes and Infection
 New England Journal of Medicine
 J. Dental Res.
 Pediatric Infectious Diseases
 PNAS
 Trends in Microbiology

Advisory Committees, Review Groups/Study Sections

1994 National Cooperative Drug Discovery Group Study Section
 1995, 1996 (Member 1996-2000); Chair 1998-2000NIH Bacteriology and Mycology 2 Study Section
 1995 NSF Outside Reviewer
 1998 Italian AIDS Program outside Reviewer
 1996, 1997, 1998, 1999, 2003 Burroughs Wellcome Trust (United Kingdom) Outside Reviewer

1998	VA Merit Review outside Reviewer
1999	AIDS Study Section AAR1 Ad hoc Reviewer
2000	USDA SBIR Ad hoc Reviewer
1999	NIAID Strategic Plan Task Force
2000-15	St. Jude Fellowship for Pediatric Infectious Diseases
2002-07	Burroughs Wellcome Fund Advisory Committee
2001-5	NIH MIDRC (Microbiology and Infectious Diseases Research Committee) Study Section
2002	NIAID Blue Panel on Bioterrorism Research
2002-05	City University of New York Jonas Salk Award reviewer
2002	Ad Hoc Consultant to Board of Scientific Counselors for NCI
2002	Ad Hoc Consultant to Board of Scientific Counselors for NIAID
2003	National Research Council Workshop on Biotechnology and Bioterrorism
2004	Chair, Expert Panel for NIAID Invasive Aspergillosis Animal Models contract
2004	External Advisory Comm. for Pathomics Strategic Initiative, Lawrence Livermoreational Lab
2004	CDC Advisory panel on Anthrax Immune Globulin
2004-06	Scientific Advisory Board for the NIAID Immune Epitope Database contract
2004-07	Abbot Laboratories Award in Clinical and Diagnostic Immunology Selection Committee
2007-10	NIAID Board of Scientific Counselors 2005-2010; Co-Chair
2005-14	National Science Advisory Board for Biosecurity (NSABB)
2005	Chair, NAS Workshop 'NEW DIRECTIONS IN THE STUDY OF ANTIMICROBIAL THERAPEUTICS – IMMUNOMODULATORS
2005	Chair, NHLBI Working group Innate Immunity HIV & HIV-related Lung Infections
2007	Army Basic Research Review
2009	External Reviewer University of Colorado Department of Microbiology 2009
2011	Keystone Symposia SAB (ad hoc) 2009; Member 2010-2013; Chair Immunology section
2010-16	National Academy Sci Committee on Science Technology and Law
2009-11	National Academy Sci Committee to Review the FBI Investigation of the 2001 Bacillus anthracis Mailings
2010	NIAID Genomics Blue Ribbon Panel
2012	Pioneer Award Review Panel
2012-17	Co-Chair, N IAID Board of Scientific Counselors
2013	Review of Boston University Microbiology Program
2013-17	Scientific Council Institut Pasteur, Paris, France
2014	Co-Chair, Committee on the Future Direction of the NIAID Intramural Research Program
2014	NIH Advisory Council to the Director on long-term planning for the NIH intramural research program
2014	Review of Washington University Department of Microbiology
2014	Advisory Comm to the (NIH) Director Long-Term Intramural Research Program (LT-IRP)
2015	Review of Jefferson University Department of Microbiology
2015-2016	National Academy of Sciences Comm of Federal Regulations and Reporting requirement
2015-present	National Commission Forensic Science Board, Commissioner
2016	External Advisory Committee for the Mount Sinai Department of Microbiology
2016-present	National Academy of Sciences Committee on Dual Use Research of Concern: Options for Limited Communication 2016
2018	Advisory Board Center for Integrity in Forensic Science

HONORS AND AWARDS

Awards, Honors

1979	Stanley Konkol Memorial Award
1979	Chemistry Department Service Award

1979-83	Salk Scholarship
1979-85	Medical Scientist Training Program Fellowship
1989	Montefiore Fellow of the Year Award
1990	Pfizer Postdoctoral Fellowship Award
1992	James S. McDonnell Scholar Award
1996	Burroughs Wellcome Trust Fund Developmental Therapeutics Award
1997-98	Foundation for Microbiology Lectures Program
1999	Elected to the American Society for Clinical Investigation
1999	Melini Award
2001	Leo M. Davidoff Society (for outstanding teaching)
2001	Sam Rosen Award for outstanding teaching in Pre-Clinical Curriculum
2002	Alpha Omega Alpha
2002	Elected to Fellowship in American Academy of Microbiology
2002	Burroughs Wellcome Visiting Professorship to University of Wisconsin
2004	Elected to American Association of Physicians
2005	Solomon A Berson Medical Alumni Achievement Award in Basic Science -NYU Sch. of Med
2006	Elected AAAS Fellow
2006	Maxwell L. Littman Award (mycology award)
2007	Rhoda Benham Award from Medical Mycology Society of America
2007	NIH Merit Award
2008	ASM William Hinton Award (for mentoring scientists from underrepresented groups)
2008	Albert Einstein College of Medicine Faculty Mentoring Award
2010	Elected to the Interurban Club
2014	Commencement Speech, Albert Einstein College of Medicine graduation
2014	ASM Founders Award Distinguished Service Award
2014	Elected to Institute of Medicine of the National Academy of Sciences
2015	Delta Omega Alpha Chapter

Invited Talks, Panels

NAMED LECTURES

2008	IDSA Kass Lecturer
2009	14 th Farness Lecturer, U. Arizona
2010	Marshall S. Horwitz Faculty Achievement Award
2010	Nelson Lecture, Bozeman, Montana
2010	Theobald Smith Lecture at Albany
2010	Arthur White Lecture, U Indiana
2011	Louis Weinstein Lecture, Tufts University
2012	Jessie Boden Lloyd Visiting Professor for 2012 and gave the Jessie Boden Lloyd Lecture in Immunology, Calgary.
2012	ICAAC Lecturer
2012	Jenner Lecture, St Georges Hospital, London
2013	Michael Apicella Lecture, Iowa
2013	NIAID Kinyoun Lecture, Bethesda, MD
2013	Faculty of Science 50th Anniversary Speaker, University of British Columbia, Vancouver CA
2014	Bernard Fields Lecture Scripps, CA
2014	American Association of Immunology Minority Affairs Committee Guest Lecture
2015	McGinnis Memorial Lecture at Duke University, NC
2015	McCollum Colloquium Speaker, Dartmouth (student invited speaker)
2015	Douglas D. McGregor Research Lecture, Cornell University, Ithaca
2016	Naff Lecture, Case Western Reserve, Cleveland
2016	Robert McGhee Distinguished Lecture, University of Arkansas

- 2016 Medoff Lecture, Washington University Division of Infectious Disease
- 2016 Karling Lecture, Mycology Society of America
- 2017 Harry Smith Memorial Lecturer, Birmingham, United Kingdom
- 2017 Westmere Lecturer, Birmingham, United Kingdom
- 2017 Brown-Williamson Lecturer, Queens College, The City Univeristy of New York

PUBLICATIONS (813)

1. Baker AD, **Casadevall A**, Gafney HD, Gellender M (1980) Photochemical Reactions of Tris (Oxalato) Iron III. J. Chem. Ed. 57:314-315.
2. Baker AD and **Casadevall A** (1980) A Clock Reaction with Paraquat. J. Chem. Ed. 57:515-516.
3. **Casadevall A**, Day LA (1982) DNA Packing in the Filamentous Viruses fd, xf, Pf1, and Pf3. Nucleic Acids Res. 10:2467-2481.
4. **Casadevall A**, Day LA (1983) Silver and Mercury Probing of Deoxyribonucleic Acid Structures in the Filamentous Viruses fd, If1, lKe, Xf, Pf1, and Pf3. Biochem. 22:4831-4842.
5. Putterman DG, **Casadevall A**, Boyle PD, Yang H-L, Frangione B, Day LA. (1984) Major Coat Protein and Single-Stranded DNA-binding Protein of the Filamentous Virus Pf3. PNAS 81:699-703.
6. **Casadevall A**, Day LA (1985) The Precursor Complex of the Pf3 Bacteriophage. Virology 45:260-272.
7. Day LA, **Casadevall A**, Prescott B, Thomas GJ (1988) Raman Spectroscopy of Mercury (II) Binding to Two Filamentous Viruses: Ff (fd, M13, f1) and Pf1. Biochem. 27:706-711.
8. **Casadevall A**, Day LA (1988) Thermal Differences Circular Dichroism of Pf1 Filamentous Virus and Effects of Mercury (II) Silver (I), and Copper (II). Biochem. 27:3599-3602.
9. Day LA, Marzec CJ, Reisberg SA, **Casadevall A**. (1988) DNA Packing in Filamentous Bacteriophages. Ann. Rev. Biophys. Biophysical Chem. 17:509-539.
10. **Casadevall A**, Pirofski L, Catalano MT (1990) Primary Group A Streptococcal Peritonitis in Adults. Am. J. Med. 88:5-63N-64N.
11. Pirofski L, **Casadevall A**. (1990) Mixed Staphylococcal and Cryptococcal Epidural abscess in a patient with AIDS. Rev. Infect. Dis. 12:964-965.
12. Pirofski L, **Casadevall A**, Rodriquez L, Zuckier L, Scharff MD (1991) Current State of the Hybridoma Technology. J. Clin. Immunol., 10, No. 6 (November Supplement), 5S-14S.
13. **Casadevall A**, Scharff MD (1991) The Mouse Antibody Response to Infection with *Cryptococcus neoformans*: V_H and V_L Usage in Polysaccharide Binding Antibodies. J. Exp. Med. 174:151-160.
14. Pettoello-Mantovani M, **Casadevall A**, Kollmann TR, Rubinstein A, Goldstein H. (1992) Enhancement of HIV-1 Infection by the Capsular Polysaccharide of *Cryptococcus neoformans*. Lancet 339:21-23.
15. **Casadevall A**, Mukherjee J, Devi S, Schneerson R, Robbins J, Scharff, M.D. (1992) Antibodies elicited by a *Cryptococcus neoformans* -tetanus toxoid conjugate vaccine have the same specificity as those elicited in infection. J. Infect. Dis. 165:1086-93.
16. **Casadevall A**, Dobroszycki J, Small C, Pirofski, L. (1992) *Haemophilus Influenzae* Type b Bacteremia in Adults with AIDS and at Risk for AIDS. Am. J. Med. 92:587-590.

17. **Casadevall A**, Freundlich LF, Pirofski L. (1992) Septic shock from *Pseudomonas paucimobilis*. Clin. Infect. Dis. 14:784.
18. **Casadevall A**, Freundlich L, Marsh L, Scharff MD. (1992) Extensive Allelic Variation in *Cryptococcus neoformans*. J. Clin. Microbiol. 30:1080-1084.
19. **Casadevall A**, Mukherjee J, Scharff MD. (1992). Monoclonal antibody based ELISAs for Cryptococcal polysaccharide. J. Immunol. Methods. 154:27-35.
20. Mukherjee J, Scharff MD, **Casadevall A** (1992). Protective murine monoclonal antibodies to *Cryptococcus neoformans*. Infection and Immunity 60:4534-4541.
21. Mukherjee J, **Casadevall A**, Scharff, MD (1993) Molecular characterization of the humoral responses to *Cryptococcus neoformans* infection and glucuronoxylomannan-tetanus toxoid conjugate immunization. J. Exp. Med. 177:1105-1116.
22. **Casadevall A**, Fan M. (1992) The *URA5* gene of *Cryptococcus neoformans* var. *gattii*: Evidence for a close phylogenetic relationship between *C. neoformans* var. *gattii* and *C. neoformans* var. *neoformans*. J. Gen. Appl. Microbiol. 38:491-495.
23. Spitzer, ED, Spitzer S, Freundlich L, **Casadevall A**. (1993) Persistence of initial infection in recurrent *Cryptococcus neoformans* meningitis. Lancet 341:595-596.
24. **Casadevall A**, Dobroszycki J Small C, Pirofski, L. (1993) Bacteremic *H. influenzae* type b infection and HIV. Am. J. Med. 95:119.
25. Mukherjee J, Pirofski L, Scharff MD, **Casadevall A**. (1993) Antibody mediated protection in mice with lethal intracerebral *Cryptococcus neoformans* infection. PNAS 90:3636-3640.
26. **Casadevall A**, Spitzer ED, Webb D, Rinaldi MG (1993) Susceptibilities of serial *Cryptococcus neoformans* isolates from patients with recurrent cryptococcal meningitis to Amphotericin B and fluconazole. Antimicrobial Agents. Chemotherapy 37:1383-1386.
27. Mukherjee J, **Casadevall A**, Scharff MD (1993) Mu switch region deletion is associated with both T cell independent and T cell dependent responses. Molecular Immunology 30:1049-1055.
28. Currie BP, Freundlich LF, Soto MA, **Casadevall A** (1993) False negative cerebrospinal fluid cryptococcal latex agglutination tests for patients with culture positive cryptococcal meningitis. J. Clin. Microbiol. 31:2519-2522.
29. **Casadevall A** (1993) Cryptococcosis: The case for immunotherapy. CliniGuide to Fungal Infections 4:1-5.
30. **Casadevall A** (1993) *Cryptococcus neoformans*: Ecology and Pathogenesis. CliniGuide to Fungal Infections 4:1-5.
31. Mantovani MP, **Casadevall A**, Goldstin H, (1993) The Presence of Cryptococcal Capsular Polysaccharide Increases the Sensitivity of HIV-1 Coculture in Children. Annals New York Academy of Sciences 693:281-283.

32. Mukherjee S, Lee S, Mukherjee J, Scharff, MD, **Casadevall A** (1994). Monoclonal antibodies to *Cryptococcus neoformans* capsular polysaccharide modify the course of intravenous infection in mice. *Infect. Immun.* 62:1079-1088.
33. Mukherjee J, Zuckier, L, Scharff, MD, and **Casadevall A** (1994). Therapeutic efficacy of monoclonal antibodies to *Cryptococcus neoformans* Glucuaonoxylomannan alone and in combination with amphotericin B. *Antimicrob. Agents Chemotherap.* 38:580-587.
34. Currie BP, Freundlich LF, **Casadevall A** (1994) Restriction fragment length polymorphism analysis of *Cryptococcus neoformans* isolates from environmental (pigeon excreta) and clinical sources in New York City. *J. Clin. Microbiol.* 32:1188-1192.
35. Fan M, Currie BP, Guttell R, Ragan M, **Casadevall A** (1994). The 16S-like, 5.8S, and 23-S-like rRNAs of the two varieties of *Cryptococcus neoformans*: sequence, secondary structure, and phylogenetic analysis and restriction fragment polymorphisms. *J. Med. Vet. Mycology* 32:163-180.
36. **Casadevall A**, Scharff, M.D. (1994). Serum Therapy Revisited: Animal models of infection and the development of passive antibody therapy. *Antimicrob. Agents Chemotherap.* 38:1695-1702.
37. Lee SC, Dickson DW, Brosnan CF, **Casadevall A** (1994) Human astrocytes inhibit *Cryptococcus neoformans* by a nitric oxide-mediated mechanism. *J. Exp. Med.* 180:365-369.
38. Wang Y, **Casadevall A** (1994) Susceptibility of melanized and non-melanized *Cryptococcus neoformans* to nitrogen and oxygen-derived oxidants. *Infect. Immun.* 62:3004-3007.
39. **Casadevall A**, DeShaw M, Fan M, Dromer F, Kozel TR, Pirofski L. Molecular and idiotypic analysis of antibodies to *Cryptococcal neoformans* Glucuronoxylomannan. *Infect. Immun.* 62:3864-3872.
40. Zebedee SL, Koduri RJ, Mukherjee J, Mukherjee S, Lee S, Sauer DF, Scharff MD, **Casadevall A** (1994) Mouse-Human chimeric Immunoglobulin G1 Chimeric antibodies with activities against *Cryptococcus neoformans*. *Antimicrob. Agents Chemotherap.* 38:1507-1514.
41. Ghannoum MA, Spellberg BJ, Ibrahim AS, Ritchie JA, Currie BP, Spitzer E, Edwards J, **Casadevall A** (1994) Sterol composition of *Cryptococcus neoformans* in the presence and absence of fluconazole. *Antimicrob. Agents Chemotherap.* 38:2029-2033.
42. Currie BP, **Casadevall A** (1994) Estimation of the prevalence of *Cryptococcus neoformans* infections among patients infected with the Human Immunodeficiency Virus in New York City. *Clin. Infect. Dis.* 19:1029-1033.
43. Pettoello-Mantovani M, **Casadevall A**, Goldstein H. (1994) Enhancement of HIV-1 Infectivity *in Vitro* by Capsular Polysaccharide of *Cryptococcus neoformans* and *Haemophilus influenzae*. *AIDS Research and Human Retroviruses* 10:1079-1087.
44. **Casadevall A**, Mukherjee J, Yuan R, Perfect J. (1994) Management of injuries caused by *Cryptococcus neoformans*-contaminated needle. *Clin. Infect. Dis.* 19:951-3.
45. Brosnan CF, Battistini L, Raine CS, Dickson DW, **Casadevall A**, Lee SC. (1994). Reactive nitrogen intermediates in human neuropathology: an overview. *Developmental Neuroscience* 16:152-161.

46. Cleare W, Mukherjee J, Spitzer ED, **Casadevall A** (1994) Prevalence in *Cryptococcus neoformans* strains of a polysaccharide epitope which can elicit protective antibodies. Clin. Diagn. Lab. Immunol. 1:737-740.
47. Wang, Y. and **Casadevall A** (1994) Decreased susceptibility of melanized *C. neoformans* to ultraviolet light. Appl.Environ.Microbiol. 60:3864-3866.
48. Spira, G, Ruirong, Y, Paizi, M, Weisendal M, **Casadevall A** (1994) Simultaneous expression of kappa and lambda light chains in a murine IgG3 anti-*Cryptococcus neoformans* hybridoma cell line. Hybridoma 13:531-535.
49. Mukherjee J, Scharff MD, **Casadevall A** (1994) *Cryptococcus neoformans* infection can elicit protective antibodies in mice. Can.J.Microbiol. 40:888-892.
50. Wang Y, **Casadevall A** (1994) Growth of *Cryptococcus neoformans* in the presence of L-dopa decreases its susceptibility to Amphotericin B. Antimicrobial Agents Chemoth. 38:2648-2650.
51. Goldman D, Lee SC, **Casadevall A** (1994) Pathogenesis of pulmonary cryptococcosis in the rat Infect. Immun. 62:4755-4761.
52. Mukherjee J, Nussbaum G, Scharff MD, **Casadevall A** (1995) Protective and non-protective antibodies to *C. neoformans* originating from one B cell. J. Exp. Med. 181:405-409.
53. Mukherjee S, Lee SC, **Casadevall A** (1995) Antibodies to *Cryptococcus neoformans* glucuronoxylomannan enhance antifungal activity of murine macrophages. Infect. Immun. 63:573-579.
54. Ruirong Y, **Casadevall A**, Spira G, Scharff MD (1995) Isotype switching from IgG3 to IgG1 converts a non-protective murine antibody to *Cryptococcus neoformans* to a protective antibody. J. Immunol. 154:1810-1816.
55. Mukherjee S, **Casadevall A** (1995) Sensitivity of sandwich ELISAs for *Cryptococcus neoformans* polysaccharide antigen is dependent on the isotype of the capture and detection antibodies. J. Clin. Microbiol. 33:765-768.
56. Mozaffarian N, Berman JW, **Casadevall A** (1995) Crosslinking of Fc-gamma receptors increases nitric oxide production by interferon-gamma-stimulated murine macrophage-like J774.16 cells. J.Leukocyte Biol. 57:657-662.
57. Cherniak R, Morris LC, Belay T, Spitzer ED, **Casadevall A** (1995) Variation in the structure of glucuronoxylomannan in isolates from patients with recurrent Cryptococcal Meningitis. Infect. Immun. 63:1899-1905
58. **Casadevall A** (1995) Antibody Immunity and *Cryptococcus neoformans*. Can.J.Bot. 73:s1180-1186.
59. **Casadevall A**, Scharff MD (1995) Return to the past: the case for the re-introduction of passive antibody therapy. Clin. Infect. Dis. 21:150-161.
60. Nussbaum G, Yuan R, **Casadevall A**, Valadon P, Scharff MD (1995) Vaccination elicits protective and non-protective antibodies to *Cryptococcus neoformans*. Vaccines 95. Cold Spring Harbor Press. Cold Spring Harbor, NY. p.231-235.

61. Kristensson K, Glasser SM, **Casadevall A**, Scharff MD, Zebedee SL, Huse WD (1995) Humanization of a murine antibody against *Cryptococcus neoformans* polysaccharide using a novel approach. *Vaccines* 95. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY. p.39-43.
62. Mukherjee J, Cleare W, **Casadevall A** (1995) Monoclonal antibody mediated capsular reactions (quellung) in *Cryptococcus neoformans*. *J. Immunol. Methods* 184:139-143.
63. Currie BP, Ghannoum M, **Casadevall A** (1995) Decreased fluconazole susceptibility of a relapse *Cryptococcus neoformans* isolated after fluconazole treatment. *Infect.Dis.Clin.Pract.* 4:318-319.
64. Fan M, Chen L.-C, Ragan MA, Guttell RR, Warner JR, Currie BP, **Casadevall A** (1995) The 5S rRNA and the rDNA intergenic spacer of the two varieties of *Cryptococcus neoformans*. *J. Med. Vet. Mycology* 33:215-221.
65. Mukherjee J, Scharff MD, Feldmesser M, **Casadevall A** (1995) Monoclonal antibodies to *Cryptococcus neoformans* glucuronoxylomannan enhance fluconazole efficacy. *Antimicrob. Agents. Chemotherap.* 39:1398-1405.
66. Wang Y, Aisen P, **Casadevall A** (1995) *Cryptococcus neoformans* melanin and Fungal Virulence: Mechanism of Action. *Infect. Immun.* 63:3131-3136.
67. Goldman D, Lee SC, **Casadevall A** (1995) Tissue localization of *Cryptococcus neoformans* glucuronoxylomannan in the presence and absence of specific antibody. *Infection and Immunity* 63:3448-3453.
68. Lee SC, Kress Y, Dickson DW, and **Casadevall A** (1995) Human microglia mediate anti-*Cryptococcus neoformans* activity in the presence of specific antibody. *J. Neuroimmunology* 62:43-52.
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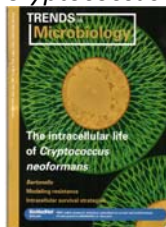
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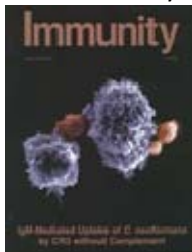
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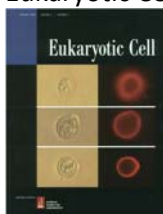
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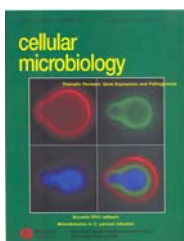
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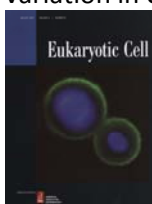
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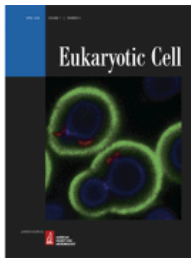
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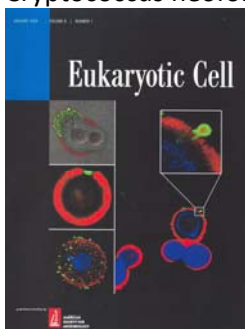
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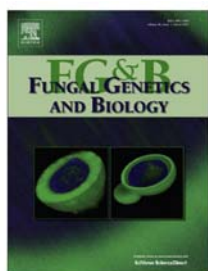
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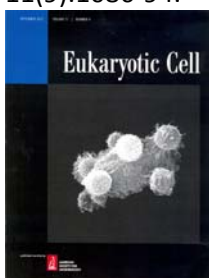
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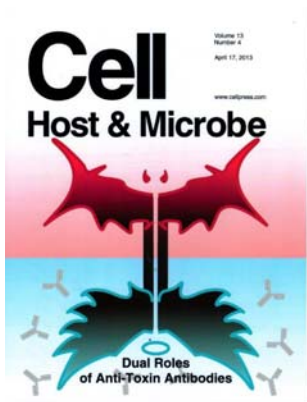
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The paper was also accompanied by an editorial in *PNAS*

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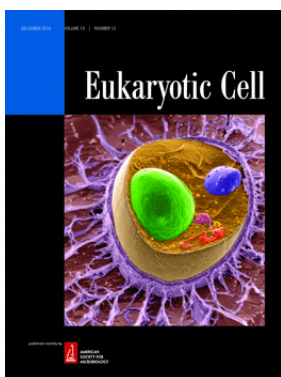
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4. **Casadevall, A.** Fungal infections, systemic, by Opportunistic agents *Encyclopedia of Microbiology* 2nd Edition.

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Recent Advances on Model Hosts. Edited by Mylonakis E, Ausubel F.M., Casadevall A, Gilmore, M Springer Verlag/Springer Science & Business. 2011

Human Fungal Pathogens. Edited by A. Casadevall, Aaron P. Mitchell, Judith Berman, KJ Kwon-Chung, John R. Perfect and Joseph Heitman. Cold Spring Harbor Press 2014

Letters, correspondence

Casadevall, A, Spitzer, E.D. (1995) Involvement of multiple *Cryptococcus neoformans* strains in a single episode of cryptococcus and reinfection with novel strains in recurrent infection as demonstrated by random amplification of polymorphic DNA and DNA fingerprinting [Letter]. J.Clin.Microbiol. 33:1682-1683.

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Boston Globe

http://www.boston.com/news/globe/health_science/articles/2005/02/22/were_the_dinosaurs_done_in_by_fungus/

BBC Interview

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NPR talk of the Nation – Fungi: the good, the bad and the edible.

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NYT interview on retracted publication

<http://www.nytimes.com/2012/04/17/science/rise-in-scientific-journal-retractions-prompts-calls-for-reform.html>

NPR Interview on problems with science

<http://www.yourpublicmedia.org/content/wnpr/getting-psyched-about-science>

NPR All Things Considered about new botulinum toxin

<http://www.npr.org/blogs/health/2014/04/21/305650796/whos-protecting-whom-from-deadly-toxin>

NPR Biologist choose sides in safety debate over lab made pathogens

<http://www.npr.org/blogs/health/2014/08/13/339854400/biologists-choose-sides-in-safety-debate-over-lab-made-pathogens>

NPR Interview on the pause involving GOF experiments with pathogens of pandemic potential

<http://www.npr.org/blogs/health/2014/10/23/358122198/scientists-fight-for-superbug-research-as-u-s-pauses-funding>

Voice of America interview on science fraud and misconduct

<http://www.voanews.com/audio/2969854.html>

Inventions, Patents, Copyrights

US Patent 6,509,325. Nosanchuk Joshua D, Casadevall Arturo, Ovalle; Rafael. Method for inhibiting melanogenesis and uses thereof.

US Patent 6,545,130. Glatman-Freedman; Aharon, Casadevall; Arturo. Monoclonal antibodies to mycobacterium tuberculosis and a modified ELISA assay

US Patent 7,402,385 B2 E. Dadachova, J.D. Nosanchuk and A. Casadevall Radiolabeled antibodies and peptides for treatment of tumors.

US Patent 7,651,689 E. Dadachova, A. Casadevall and A. Nakouzi Methods of applying ionizing radiation for therapy of infections

US Patent 7,402,385 E. Dadachova, J.D. Nosanchuk and A. Casadevall Radiolabeled antibodies for treatment of tumors

Canadian Patent No. 2,606,022; European Patent No. 1868639 (validated in France, Germany, Italy, United Kingdom; Hong Kong Patent No. HK1117035; South African Patent No. 2007/08539) E.

Dadachova, A. Casadevall and H. Goldstein. Methods of applying ionizing radiation for therapy of HIV infection.

US Patent 8,187,611 B2 N. Abboud and A. Casadevall. Anti-peptide antibodies that cross react with protective antigen of *Bacillus anthracis* and uses thereof.

US Patent 8,652,827 E. Dadachova, R. A. Bryan and A. Casadevall Radiosynthesis as an alternative energy utilization process in melanized organisms and uses thereof.

US Patent 8,586,090 E. Dadachova and A. Casadevall Melanin nanoshells for protection against radiation and electronic pulses.

Applications pending

J. Achkar, A. Casadevall, R. Rosales and A. Ziegenbalg Serologic test for the rapid diagnosis of tuberculosis.

E. Dadachova, A. Casadevall, H. Strickler and R.D. Burk Radioimmunotherapy and imaging of tumor cells that express viral antigens.

E. Dadachova, A. Casadevall, M.A. Sesay, H. Damania, P.E. Smariga Radiolabeled monoclonal antibodies, methods of preparation using TCEP and uses thereof.

E. Dadachova, A. Casadevall, M.A. Sesay, H. Damania, P.E. Smariga Disposable column system for purification of radiolabeled antibodies.

E. Dadachova and A. Casadevall Methods for increasing efficacy of radioimmuno-therapy of melanoma.

JM Friedman, AJ Friedman, G. Han, MS Navati, KP Davies, MT Tar, AA Alfieri, A Casadevall, E Dadachova, HC Eisenman, Jasmin and D Spray Versatile nanoparticulate biomaterial for controlled delivery and/or containment of therapeutic and diagnostic material.

E. Dadachova, C. Gravekamp, A. Casadevall. Radiobacteria for therapy of cancer.

E. Dadachova and A. Casadevall. Oral administration of melanin for protection against radiation.

TEACHING

Mentoring

Advisees (predoctoral PhD advisor)

1996 Yulin Wang Ph.D.

1997 Sarah Franzot Ph.D.

1998 Lin Chen Ph.D.

1999	Wendy Cleare	Ph.D.
1999	Nikoletta Lendvai	Ph.D.
2000	Neely Mozaffarian	Ph.D.
2000	Angel Rosas	Ph.D.
2002	Johanna Rivera	Ph.D.
2002	Reid Schwebach	Ph.D.
2003	Judith Steenbergen	Ph.D.
2004	Javier Garcia-Rivera	Ph.D.
2006	Marcela Torres	Ph.D.
2006	Luis Martinez	Ph.D.
2007	Yong Luo	Ph.D.
2008	Mauricio Alvarez	Ph.D.
2009	Magdia DeJesus	Ph.D.
2009	Carolyn Saylor	Ph.D.
2010	Cara Chrisman	Ph.D.
2011	Patricia Andrade	Ph.D.
2011	Andres Nicola	Ph.D. (University of Brasilia)
2012	Radames Cordero	Ph.D.
2012	Alena Janda	Ph.D.
2013	Jacky Chow	Ph.D.
2013	Carolina Coelho	Ph.D. (University of Coimbra)
2014	Sabriya Stukes	Ph.D.
2015	Lisa Brown	Ph.D.
2016	Anthony Bowen	Ph.D.
2017	Carlos de Leon Rodriguez	Ph.D.
2017	Eric Jung	Ph.D.
2018	Joudeh Freiji	M.D.

Postdoctoral Fellows (Name, Years, Current Position)

Brian Currie, M.D., M.P.H. 1992-1993 Assist. Dean, Clinical Research, Montefiore Med. Center;
Professor, Dept. Med., Dept. Epidemiology & Population Health, Albert Einstein College
of Medicine, Bronx, NY

Sushovita Mukherjee, M.D. 1992-1996 Not Available

Jean Mukherjee, D.V.M., Ph.D. 1996-1997 Assist. Prof., Dept. Biomed. Sci. (Infectious Diseases),
Cummings Sch. Vet Med., Tufts University, North Grafton, MA

Aharona Freedman, M.D. 1993-1998 Assist. Clinical Prof., Dept. Pediatrics (Infectious Diseases), Albert
Einstein College of Medicine, Bronx, NY

Joshua Nosanchuk, M.D. 1996-1998 Prof., Dept. Med. (Infectious Diseases), Dept. Microbio. & Immuno.,
Albert Einstein College of Medicine, Bronx, NY

Bettina Fries, M.D. 1997-1999 Prof., Dept. Med. (Infectious Diseases), Stony Brook University, NY

Marta Feldmesser, M.D. 1994-2001 Assoc. Prof., Dept. Med. (Infectious Diseases), Dept. Obstetrics &
Gynecology and Women's Health, Dept. Microbio. & Immuno., Albert Einstein College
of Medicine, Bronx, NY

Carlos Taborda, Ph.D. 1999-2002 Assoc. Prof., Dept Microbio., Institute Biomed. Sci., University of Sao
Paulo, Sao Paulo, Brazil

David Goldman, M.D. 1996-2003 Assoc. Prof., Dept. Med. (Infectious Diseases), Dept. Pediatrics, Dept.
Microbio. & Immuno., Albert Einstein College of Medicine, Bronx, NY

Stephanie Tucker, Ph.D. 1999-2003 Not Available

Oscar Zaragoza, Ph.D. 2001-2006 Principal Investigator, Dept. Microbio., Instituto de Salud Carlos III,
Marid, Spain

Diane McFadden, Ph.D. 1999-2006 Assoc. Director, Northeast Biodefense Center, Columbia University, New York, NY

Marcela Torres, Ph.D. 2006-2007 Scientist, Regeneron Pharmaceuticals Inc., Tarrytown, NY

Helene Eisenman, Ph.D. 2003-2008 Assist. Prof., Dept. Microbio., Baruch College, New York, NY

Erin McClelland, Ph.D. 2003-2008 Assist. Prof., Dept. Basic Sci. (Microbio. & Immuno.), The Commonwealth Medical College, Scranton, PA

Susana Frases-Carvajal, Ph.D. 2004-2009 Scientist, Biotech. Lab., National Institute of Metrology, Rio de Janeiro, Brazil

Yong Luo, M.D., Ph.D. 2007-2009 Residency, Long Island Jewish Medical Center, New Hyde Park, NY

Aviva Diamond, Ph.D. 2009-2010 Post-doc with Ian Willis, Albert Einstein College of Medicine, Bronx, NY

Emma Robertson, Ph.D. 2008-2011 Post-doc with Kirsten Nielsen, University of Minnesota, Minneapolis, MN

Andre Nicola, M.D., Ph.D. 2006-2011 Prof. and Researcher, Graduate Program in Genomic Sciences and Biotechnology, Catholic University of Brasilia, Brazil

Nareen Abboud, Ph.D. 2009-2011 Research Program Manager, Montefiore Medical Center, Bronx, NY

Monica Garcia-Solache, M.D., Ph.D. Postdoctoral fellow with Louis Rice, Brown University.

Rafael Prados, Ph.D. 2009-2014 Assist. Prof., Albert Einstein College of Medicine, New York, NY

Mary Pohl, Ph.D. 2011-2014 Senior Scientist, Oncobiologics, Inc.

Julie Wolf, Ph.D. 2010-2015 ASM, Washington, DC

Radames Cordero, Ph.D. 2015-2017, Research Associate, Johns Hopkins University

Coelho, Carolina, Ph.D. 2015-2018, MRC Centre for Medical Mycology, University of Exeter

Maggie Wear, Ph.D. 2016-2019, Assistant Scientist, Johns Hopkins University

Awards for junior scientists in Dr. Casadevall laboratory

1995-2000	David Goldman MD	NIH Physician Scientist Award
1996-99	Rona Freedman MD	Aaron Diamond Scholarship
1999-2004	Rona Freedman MD	NIH Physician Scientist KO8 Award
1993	Wendy Cleare	American Heart Minority Scholarship
1994	Wendy Cleare	NIH Minority Award Supplement
1996-2001	Marta Feldmesser MD	NIH Physician Scientist KO8 Award
1995-97	Sarah Piancastelli Franzot (PhD student)	Fulbright Scholarship
1997-99	Joshua Nosanchuk MD	Mycology IDSA Award
1997-2002	Joshua Nosanchuk MD	NIH Physician Scientist KO8 Award
	Johanna Rivera	NIH Marc Graduate Student Fellowship.
1998-2000	Bettina Fries MD	Mycology IDSA Award (Declined due overlap)
1998-2001	Bettina Fries MD	Howard Hughes Postdoctoral Award
	Bettina Fries MD	NIH Physician Scientist KO8 Award
2001-03	Dianne McFadden PhD	Life Sciences Postdoctoral Fellowship Award
	Dianne McFadden PhD	NIH F32 Postdoctoral Award (Declined due to overlap)
	Javier Garcia	NIH Marc Graduate Student Fellowship
	Helene Eisenman PhD	NIH F32 Postdoctoral Award
	Erin McClelland PhD	Revson Fellowship
2007-12	Jacqueline Achkar MD	NIH K23 Award

Thesis committees

I have participated in dozens of PhD committees and defenses but did not keep track of these

Training grant participation

9/1/97-5/31/13 Molecular Pathogenesis of Infectious Diseases 5T32AI007506-09

NIH/NIADD

PI: Casadevall

Until 06 (training faculty) after 06 (PI)

9/1/94-6/30/21 The Molecular and Cellular Basis of Infectious Diseases (MCBID) Program
2T32AI007417-21A1
NIH/NIADD
PI: Casadevall

Teaching

Course Leader for **GRADUATE MICROBIAL PATHOGENESIS**; 6 credit graduate school course at the Albert Einstein College of Medicine Sue Golding Graduate Division which teaches the fundamentals of microbial pathogenesis. 1996 and 1999.

2000-present	Lecturer in Graduate Pathology Course - Albert Einstein College of Medicine
	Lecturer in Graduate Critical Reading Course- Albert Einstein College of Medicine
2001-present	Lecturer in Immunology Medical School Module - Albert Einstein College of Medicine
2000-2014	Lecturer in Graduate Immunology Course - Albert Einstein College of Medicine
2000-14	Lecturer in Infectious Disease Course - Albert Einstein College of Medicine
1999	Lecturer at Rockefeller Microbial Pathogenesis course
2000-14	Lecturer at NYU Microbial Pathogenesis course
2013-present	Lecturer at Columbia Ethics Course
2015	Lecturer in IBS course, Johns Hopkins Sch of Public Health
2015	Lecturer in Graduate Immunology Course, Johns Hopkins Sch of Public Health
2015	Lecturer in Biology of Parasitism, Johns Hopkins Sch of Public Health
2016	Lecturer in Graduate Immunology Course, Johns Hopkins Sch of Public Health
2016	Lecturer in Public Health Biology Course, Johns Hopkins Sch of Public Health
2016	Lecturer in Biomedical Sciences, Johns Hopkins Sch of Public Health
2017	Lecturer in Biology of Parasitism, Johns Hopkins Sch of Public Health
2017	Lecturer in Bacterial Pathogenesis course, Johns Hopkins Sch of Public Health
2017	Lecturer in Responsible Conduct of Research course, Columbia University
2017	Lecturer in Biophysics course, Johns Hopkins University
2017	Lecturer in Current Issues in Public Health, Johns Hopkins Sch of Public Health
2017	Lecturer in Evolution of Infectious Diseases, Johns Hopkins Sch of Public Health
2017	Lecturer in Graduate Immunology, Johns Hopkins Sch of Public Health
2017	Lecturer in Introduction to the Biomedical Sciences, Johns Hopkins Sch of Public Health
2017	Lecturer in Pathobiology of Disease, Johns Hopkins Sch of Medicine
2017	Lecturer in Pediatric Ground Rounds, Johns Hopkins Sch of Medicine
2017	Lecturer in Public Health Biology, Johns Hopkins Sch of Public Health
2018	Lecturer in Biology of Parasitism, Johns Hopkins Sch of Public Health
2018	Lecturer in Bacterial Pathogenesis course, Johns Hopkins Sch of Public Health
2018	Lecturer in Responsible Conduct of Research course, Columbia University
2018	Lecturer in Biophysics course, Johns Hopkins University
2018	Lecturer in Current Issues in Public Health, Johns Hopkins Sch of Public Health
2018	Lecturer in Evolution of Infectious Diseases, Johns Hopkins Sch of Public Health
2018	Lecturer in Graduate Immunology, Johns Hopkins Sch of Public Health
2018	Lecturer in Introduction to the Biomedical Sciences, Johns Hopkins Sch of Public Health
2018	Lecturer in Pathobiology of Disease, Johns Hopkins Sch of Medicine
2018	Lecturer in Parasitology, Johns Hopkins Sch of Public Health
2018	Lecturer in Public Health Biology, Johns Hopkins Sch of Public Health
2019	Lecturer in R3 Course, Johns Hopkins Sch of Public Health
2019	Lecturer in Responsible Conduct of Research course, Columbia University
2019	Lecturer in Biophysics course, Johns Hopkins University
2019	Lecturer in Current Issues in Public Health, Johns Hopkins Sch of Public Health

2019	Lecturer in Evolution of Infectious Diseases, Johns Hopkins Sch of Public Health
2019	Lecturer in Graduate Immunology, Johns Hopkins Sch of Public Health
2019	Lecturer in Introduction to the Biomedical Sciences, Johns Hopkins Sch of Public Health
2019	Lecturer in Pathobiology of Disease, Johns Hopkins Sch of Medicine
2019	Lecturer in Parasitology, Johns Hopkins Sch of Public Health
2018	Lecturer in Public Health Biology, Johns Hopkins Sch of Public Health

PART II

RESEARCH GRANT PARTICIPATION

Current Grants:

Period of Performance: 04/01/2015–01/31/2020

Title of Grant: Biology of Fungal Melanin

Grant Number: 5 R01 AI052733-13

Sponsoring Agency: NIH/NIAID

Direct Costs/yr: \$131,898

PD/PI: Casadevall

Objective: The specific aims of this grant are to establish the mechanism by which melanin promotes the virulence of *C. neoformans in vivo*, to establish the protective efficacy of antibody to *Cryptococcus neoformans* melanin and laccase and the mechanism of antibody action, to investigate the molecular events of *C. neoformans* melanin biosynthesis.

Period of Performance: 08/01/2015–05/31/2020 (NCE)

Title of Grant: Synergy of Host Defense Mechanisms in the Lung

Grant Number: 5 R01 HL059842-17

Sponsoring Agency: NIH/NHLBI

Direct Costs/yr: \$250,000

PD/PI: Casadevall

Objective: The goal of this project is to establish the relationship between macrophage damage and CN non-lytic exocytosis, to establish the mechanism by which host annexins contribute to CN non-lytic exocytosis, and to identify the fungal components that facilitates non-lytic exocytosis.

Period of Performance: 11/01/2016 – 10/31/2021

Title of Grant: Host inositol regulation of AIDS-Associated *Cryptococcus* brain infection

Grant Number: R01 AI123315

Sponsoring Agency: NIH

Direct Costs/yr: \$60,000

PD/PI: Xue

Objective: Performing detailed GXM analysis using physical chemistry approaches, including using monoclonal antibody and light scattering; detection and isolation of different polysaccharide fractions under conditions with different carbon sources (inositol or glucose) for their role in BBB crossing in vitro; and potential development of protective antibody for inositol transporters.

ACADEMIC SERVICE

Institutional Administrative Appointments

1995-7 Member, Graduate Committee, Albert Einstein College of Medicine

1998-9 Member, Assistant Professor Promotion Committee, Albert Einstein College of Medicine

2005-6 Member, Search committee Dean, Albert Einstein College of Medicine

2012-3 Member, Search Committee Chair of Pediatrics, Albert Einstein College of Medicine

2013-4 Member, Search committee Chair of Medicine, Albert Einstein College of Medicine

- 2015 Member, Search Committee for Bloomberg Distinguished Professor, Johns Hopkins Sch Med
- 2015 Member, Committee Department of Biochemistry & Molecular Biology review site visit
- 2015 Member, Committee Sidney Kimmel Medical College of Thomas Jefferson University,
Department of Microbiology & Immunology External Review

PRESENTATIONS

INVITED PRESENTATIONS (Partial List)

- 1992 Grand Rounds. Downstate Department of Medicine
Grand Rounds. New York University Department of Medicine
Dept of Pathology. Stony Brook University

- 1993 2nd International Conference on Cryptococcus and Cryptococcosis Milan, Italy

- 1994 Dept of Med. Grand Rounds. Newark School of Medicine
Systemic antifungals: discovery, development and applied therapeutics. New York City
Dept of Medicine. Mount Sinai School of Medicine
Dept of Medicine. Memorial Sloan-Kettering Hospital
Medical Mycology Society of the Americas, Las Vegas Meeting
New York University. Update on Fungal Infections Symposia, NY
Dept of Rheumatology. New York University, NY
Infectious Disease Society of America, Orlando, FL
International Congress of Mycology-Vancouver, Canada
2nd NIAID Workshop on Medical Mycology, Flagstaff, Az.
Dept of Medicine. Boston University.

- 1995 Dept of Structural Biology. Public Health Res. Institute, NYC
Dept of Medicine. Torrance-UCLA Med. Ctr., Los Angeles, CA
Dept of Medicine. Cincinnati School of Medicine. Cincinnati, OH
Dept of Microbiology. Georgetown School of Med., Georgetown, MD
Div. of Infectious Diseases. Memorial Sloan-Kettering Hospital, NYC
3rd NIAID Workshop on Medical Mycology. Big Ski, Montana
International Workshop on Molecular Pathogenesis of Fungal Infections. Wurzburg,
Germany
Infectious Diseases, Duke University, Durham, NC
Dept of Chemistry, Queens College, CUNY

- 1996 Medical Mycology Society of the Americas, New Orleans
3rd International Conference on Cryptococcus and Cryptococcosis, Paris, France
Spanish Mycology Association, Valencia, Spain
Cuban Medical Convention, Miami Beach, Fla.
Dept of Biology, Hunter College, CUNY
ESATYBC Conference, Catskills, NY
Hunter College, NYC
NIH Workshop on The role of humoral immunity in the treatment and prevention of
Infectious Diseases Washington, DC
Dept of Microbiology. Medical College of Ohio, Toledo
Merck Pharmaceuticals, Rahway, NJ
Medical Mycology Society of New York Lecture

1997 13th Congress of the International Society of Human and Medical Mycology, Parma Italy. Convener of symposium titled: Cell-mediated versus antibody mediated-protection mechanisms in fungal diseases: an ongoing dilemma.
 American Society of Microbiology General Meeting Symposium, Miami, Fla.
 FASEB conference, Colorado
 New York Academy of Sciences Lecture
 Rockefeller University
 IDSA Symposium on new therapeutic strategies for fungal infections
 Department of Microbiology, Oklahoma Health Sciences Center
 Mount Sinai School of Medicine-Molecular Medicine Seminar Series
 Woods Hole Mycology Course Lecturer
 NIAID Workshop: Bridging the gap for Underrepresented Minority Research Scientists

1998 Wistar Institute
 Grand Rounds Beth Israel Hospital
 Department of Microbiology, Medical College of Ohio
 Division of Infectious Diseases, Columbia University
 Society for Industrial Microbiology Annual Meeting, Denver, Co
 Department of Health, State of New York, Albany, NY
 Department of Microbiology, Stony Brook University, NY
 Anderson Lecture, Charlottesville, Va
 Woods Hole Mycology Course Lecturer

1999 ASM Division F Divisional Lecture
 Cold Spring Harbor Symposium on Microbial Pathogenesis and Host Response.
 1999 Joint Committee Meeting of the US-Japan Cooperative Medical Science Program
 Nelson Lecture at the University of Montana in Bozeman
 Santa Fe symposia on Defense of the Brain
 International Meeting on Tuberculosis, Stockholm, Sweden
 ASM Symposium Millennial Challenges to Vaccines
 Trudeau Institute
 NHLBI Symposium on Pulmonary Immunobiology and Inflammation, NIH
 U.S.-Japan Cooperative Science Program Joint Committee, Bethesda, MD
 Woods Hole Mycology Course Lecture
 NIAID Workshop: Bridging the gap for underrepresented Minority Research Scientists

2000 Boston University
 14th Congress of the International Society of Human and Medical Mycology, Buenos Aires, Argentina. Convener of symposium titled: Vaccines and Preventive Antibodies; Also speaker on symposium on Fungal Morphogenesis and Virulence
 1st Japanese Mycology Forum, Tokyo, Japan, Keynote Speaker
 Foundation Lecture British Mycology Society Meeting, Stratford-upon-Avon, England
 Gordon Conference on Fungal Pathogenesis
 New York University - Division of Infectious Diseases
 40th ICAAC. Toronto. Vaccines for the 21st Century: New disease Targets on Horizon.
 Ritterson Memorial Lecture, University of Rochester Medical Center
 Genome Therapeutics Corporation, Waltham, MA
 Immunology for nonviral infections, Trudeau Institute, Saranac Lake
 Yale University

- 2001
- ASM Symposium Host defense against fungi: application toward therapeutics and vaccine development, Orlando, FL
 - New York Medical College (Division of Infectious Disease)
 - University of Minnesota (Department of Microbiology)
 - Elli Lilly, Indianapolis, IN
 - CSH Symposium on Microbial Pathogenesis and Host Response
 - 22nd International Conference Chemotherapy (Amsterdam)
 - Fungal Therapy, NJ Medical School Symposium
 - Dept of Microbiology, University of Pennsylvania
 - National Institute of Health
 - Department of Microbiology, Charleston
 - Newark School of Medicine
- 2002
- Keystone Symposia on Molecular and Cellular Biology
 - 5th Conference on Cryptococcus and Cryptococcosis, Adelaide Australia
 - Gordon Conference on Fungal Pathogenesis
 - IUMS Symposium, Paris
 - ASM Symposium New Concepts in Physiology and Biochemistry of Pathogenic Fungi Salt Lake City, UT
 - Woods Hole Mycology Course Lecture
 - Dept of Microbiology, University of Michigan
 - Dept of Microbiology, University of Wisconsin
 - Dept of Microbiology, University of Louisiana
 - Division of Infectious Diseases, Albany
 - 2nd Conference on Vaccines, Istituto Superiore di Sanita, Rome
 - Division of Infectious Diseases, Columbia University
- 2003
- Dept of Genetic Medicine, Cornell University
 - Dept of Immunology and Virology, U. Mass Medical School
 - 9th Congress of the European Confederation of Medical Mycology, Amsterdam, Netherlands
 - 15th Congress of the International Society of Human and Animal Mycology
 - Duke University Medical School
 - Participant, Banbury Conference. Toward a More Unified Understanding of Infectious Disease
 - CSH Symposium on Microbial Pathogenesis and Host Response
 - 15th Congress of the International Society of Human and Medical Mycology, San Antonio. Convener of symposium titled: Protective Antibodies; Also speaker on symposium on Fungal Morphogenesis and Virulence
 - Keynote Speaker, Mount Sinai Medical Resident Forum
 - NABI Pharmaceuticals, Rockville, MD
 - South Dakota Health Research Foundation
 - ACS Glycobiology Symposium, ACS Meeting, New York.
 - Washington University School of Medicine
 - Miami University, Oxford Ohio
 - New York University Division of Infectious Diseases
 - Grand Rounds Memorial Sloan Kettering
- 2004
- Immune Compromised Host Society - Grenada, Spain
 - Keystone Symposia on Bioterrorism and Emerging Infectious Diseases, Keystone, CO.

Mathematical Biosciences Inst. 'Disease Models of Host-Pathogen Interactions'
 Columbus OH
 Public Health Research Institute, Newark, NJ
 ASM Meeting Symposium: 'Immune Mechanisms in Polymicrobial Infections', New Orleans
 Keynote Speaker, Candida Meeting, Austin. TX
 11th International Congress of Infectious Diseases, Cancun, Mexico
 Mycology Unit, Pasteur Institute
 Coexistence and Collisions at the Host/Microbe Interface, Burroughs Wellcome Fund, Miami, FL.
 American Phytopathological Society Mycology Committee, Anaheim, CA
 New York University – Department of Microbiology
 FASEB Summer Research Conference on Polysaccharides, Tucson, AZ
 University of Iowa – Division of Infectious Diseases
 University of Gainesville, FL -- Department of Oral Biology
 Wyeth Vaccine Division, Pearl River, NY
 University of Colorado Health Science Center – Dept of Microbiology
 Biodefense Regional Center of Excellence meeting in Bethesda, MD
 Environmental Protection Agency workshop on Virulence Factor-Activity Relationships
 American Society of Tropical Medicine and Hygiene
 5th Louis Pasteur Conference on Infectious Diseases, Pasteur Institute

2005 Plenary Session, Mycology Division of IUMS, San Francisco
 La Jolla Institute of Allergy and Immunology
 Scripps Institute
 Keynote Speaker – 6th International Conference on Cryptococcus and Cryptococcosis
 Focus on Fungal Infections 15, Miami, FL
 ASM Biodefense Workshop
 ASM Meeting Symposium, Atlanta, GA
 IUMS Meeting, San Francisco
 CDC Distinguished Lecturer
 Koch Centennial Postulates Workshop, Berlin
 Keynote Speaker, University of Michigan Public Health Retreat
 New York Hospital in Queens
 Maimonides Hospital
 NIH, Biodefense Clinical Research Branch
 FDA, Immunology Section
 JASON General Meeting, San Diego
 Monoclonal Antibody Meeting, Rome, Italy
 Eastern Pennsylvania Branch of the American Society for Microbiology
 Thaler Lecture, Aeras Global TB Vaccine Foundation
 Koch's postulate - Centennial Workshop
 University of Kansas, Department of Microbiology
 New York Academy of Sciences
 NIAID scientists from the Division of AIDS (DAIDS)

2006 Biodefense clinical research workshop (poxvirus meeting) Bethesda, MD
 ASM 2006 Biodefense meeting. Panel Discussion
 Grand Rounds, University of Virginia
 Department of Microbiology, Drexel University
 ASM 2006 Candida Meeting

International Conference on Emerging Infectious Disease, Atlanta
International Society for Human and Animal Mycoses, Paris
Maxwell L. Littman Award Lecture – New York Society for Medical Mycology
ASM General Meeting in Orlando, FL
B cell workshop Trudeau Institute
New York Medical College
Maxwell L. Littman Award Lecture – New York Society for Medical Mycology

2007
University of Texas Southwestern Medical School
University of Connecticut
Keynote speaker, XIII Fungal Genetics Conference
Berkeley U
University of California San Francisco
University of Illinois – Urbana Champaign
ASM General Meeting Toronto Canada
Princeton U - Program on Science and Global Security's Carnegie Biodefense Seminar
Keynote Speaker Second FEBS Advanced Lecture Course Human Pathogens
U. Louisville Distinguished Speaker Lecture
Harold C. Neu Conference (Chicago)
University of Wisconsin – Graduate Student Invited Speaker
University of Alabama
Keynote Speaker Merck Retreat
APUA Congress - Boston

2008
IDSA Kass Lecture
U Mass Worcester
ISDA/ICAAC
Schimelbureau Amsterdam
Gordon Conference
EPA conference on emerging threats
Brooklyn College Dept Biology Keynote Retreat Speaker
St. Louis University
VA ASM Branch Lectureship speaker
NIAID Biodefense Network Meeting
University of Minnesota

2009
Aztra Zeneca, MA, Waltham
University of Buffalo
Rio Grande ASM Branch Keynote speaker
UAB Program in Immunology
Puerto Rico ASM Branch Keynote Speaker
Critical Path for ID Therapeutics Targeting Host NIAID/DMID/OBRA Workshop
Forum on Microbial Threats (IOM)
Rinat-Pfizer, SF
IOM Committee on Science, Technology and Law
Semmering Vaccine Symposium, Vienna
University of Wurzburg symposium on Living with Pathogens
University of Pittsburgh
Merck
Medical Mycology Society of New York
Novartis

Tufts University
Wadsworth Center
Intermountain ASM Branch Keynote Speaker
Southeastern ASM Branch Keynote Speaker
Florida ASM Branch Keynote Speaker
Hawaii Branch ASM Keynote Speaker
Farness Lecture, Tucson, AZ
Duke University, Dept of Genetics

2010 Keynote Speaker, First International Conference on Model Hosts, Crete Greece
Keynote Speaker European Fungal Genetics Conference, Amsterdam, Netherlands
Distinguished Faculty Seminar in Infectious Diseases, Medical College of Wisconsin
Association of Medical School Microbiology and Immunology Chairs
Forum on Microbial Threats (IOM)
Vienna Biocenter, Vienna, Austria.
Columbia University Dept of Microbiology and Immunology
Mount Sinai Dept of Infectious Diseases
8th World Congress on Trauma, Shock, Inflammation and Sepsis, Munich, Germany
ASM General Meeting, San Diego
ICCAC, Boston
IDSA, Vancouver
Ann Arbor, MI
University of Rio de Janeiro
IOM Forum on Fungal diseases
2010 Nelson Lecture, Bozeman, Montana
2010 Theobald Smith Lecture at Albany
2010 Arthur White Lecture, U Indiana

2011 Scripps Institute, La Jolla
Stanford University
Naval Research Laboratory, Washington DC
GRC Immunology of Fungal Infections (Galveston)
Mark Wilson Conference, San Juan
Keystone Symposia on Lung Immunity
University of Pennsylvania, Philadelphia
Keynote Speaker, Annual Pew Scholars Meeting, Cozumel
Keynote Speaker, GRC on Chemical and Bioterrorism Threats
Department of Microbiology and Immunology, Loyola University
Inter Urban Clinical Club
National Biodefense RCE Meeting, Denver
Cryptococcus and cryptococcosis meeting
Weinstein Lecture, Tufts
Keynote Speaker, Brazilian Microbiology Society
Keynote Speaker, Australian Microbiology Society
Bacterial Toxins Meeting, Oslo Norway
Brown University
Massachusetts General Hospital
Merck Vaccine Symposium (Toronto)
ICAAC Boston
Brown University
University of North Carolina

National Plant Diagnostic Network
Harvard University

2012

Bard College
Keystone meeting on Fungal pathogenesis and drug discovery, Santa Fe
University of Calgary
University of Tennessee
University of Puerto Rico
Pasteur Institute
2012 Pugwash Conference
Symposium on fungal pathogenesis, Oviedo, Spain
ICAAC Lecture 2012
Translational Science 2012 Meeting, Washington DC
University of Arkansas
International Conference of Emerging Infectious Diseases (Emerging Fungal Diseases)
Atlanta
Keynote speaker, 8th National Symposium on Recent Advances in Carbohydrate Sci.
Banff, Alberta
Vanderbilt University
Duke Mycology Symposium
NYAS Symposium 'Discovering antibacterial and anticancer therapeutics in unexpected places'
Keynote speaker – Tularemia meeting, Breckenridge CO
Keynote Speaker – U Cleveland Immunology retreat
Health Research Alliance, Washington DC
Jenner Lecture, St. Georges Hospital, London

2013

Human Fungal Pathogens 2013 Nice, France
NIH Immunology Program, Bethesda MD
GRC Fungal Infections – Galveston, TX
Ohio State University, Columbus, OH
ASM Biodefense and Emerging Infectious Meeting, Washington, DC
Virginia Commonwealth University, Richmond, VA
Columbia University (Responsible conduct of research course)
Texas A&M, College Station, TX
University of Texas at San Antonio
University of Texas at Austin
University of Jena
American Society for Microbiology General Meeting, Denver, CO
BWF Meeting in Calgary, Canada
Swiss Society for Microbiology, Interlaken
Capetown, South Africa
Human Fungal Pathogens Course, Nice, France
Keynote Speaker, Donaghue Foundation
Rheumatology Division, Beth Israel Medical Center
Snowmass Microbial Pathogenesis Meeting
Kynnon Lecture, NIAID

2014

Association of American Law Schools (AALS) Annual Meeting, New York
Bridging Lecture, International Union of Microbiological Societies 2014 meeting,
Montreal, Canada

Department of Microbiology and Immunology, UC Davis
 2014 Keystone Symposium on Prophylactic and Therapeutic Antibodies
 Keynote Speaker, Israeli Society of Microbiology 2014 meeting
 Keynote Speaker 17th Upstate NY Immunology Conference
 Keynote Speaker International Life Sciences Institute Annual meeting, Bermuda
 Keynote Speaker, The 2nd Annual Infection, Inflammation, and Immunity Summer Symposium, U Utah
 Benard Fields Memorial Lecture, The Scripps, La Jolla
 2014 American Association of Immunology Minority Affairs Guest Lecturer
 Student Invited Speaker, Graduate Biosciences Society at the University of Virginia, Charlottesville
 Invited speaker, GRC Cellular and Molecular Fungal Biology
 Group on Research Advancement and Development (GRAND), AAM Colleges
 San Antonio Vaccine Development Center Conference titled "Infections, Immunity and Vaccines"
 Keynote Speaker Department of Microbiology and Molecular Genetics Retreat, UTHSCenter, Houston
 Keynote Speaker Upstate NY Immunology Conference, Lake George
 Keynote Speaker ASM Eastern NY Branch, Albany, NY
 Symposium on Microbes in Health and Disease at Weill Medical College
 Keynote Speaker XII International Meeting on Paracoccidioidomycosis, Brasilia, Brasil.

2015
 14th Annual St. Jude/PIDS Pediatric Infectious Diseases Research Conf., Memphis, TN
 Invited Speaker, Icahn School of Medicine at Mount Sinai, New York, NY
 Invited Speaker, Albert Einstein, New York, NY
 Invited Speaker, Princeton University, Princeton, NY
 Invited Speaker, Baylor College, Houston, TX
 Invited Speaker and Organizer, Model Host Conference, Crete, Greece
 Invited Speaker, Universidad de la Republica, Montevideo, Uruguay
 Invited Speaker, North Dakota State University, Fargo, ND
 Invited Workshop Speaker, National Diversity Equity Workshop, Arlington, VA
 Invited Speaker, Merck, East Brunswick, NJ
 Invited Speaker, University of Kentucky, Lexington, KY
 Invited Speaker, University of Maryland, Baltimore, MD
 Invited Speaker, Nationwide Children's Hospital, Columbus, Ohio
 Invited Speaker, ASM Maryland Branch, Hunt Valley, MD
 McCollum Colloquium, Dartmouth, Hanover, NH
 Columbia University ethics course, New York, NY
 NIH Director's Wednesday Afternoon Lecture Series, NIH, Bethesda, MD
 Invited Speaker, East Tennessee University, Johnson City, TN
 Keynote Speaker, New York Hospital Queens, New York, NY
 Douglas McGregor Keynote Address, Cornell University, Ithaca, NY
 McGinnis Memorial Lecture, Duke University, Durham, NC
 Annual Microbial Sciences Symposium, Harvard University, Cambridge, MA
 Keynote Speaker, University of California Irvine, Lake Arrowhead, CA
 3rd Conference on Model Hosts, Crete, Greece

2016
 Plenary Speaker, ASM Biodefense Conference, Arlington VA
 Microbiology 2016, Liverpool, UK
 Medoff Lecture, Washington University, St. Louis
 Department of Biomedical Sciences, East Tennessee University, TN

Naff Lecture, Case Western Reserve
 McGhee Lecture, University of Arkansas
 National Library of Medicine
 Keynote Speaker, Canadian Society of Microbiology, Toronto
 Microbe 2016, American Society of Microbiology, Boston, NY
 Karling Lecture, The Mycological Society of Americas, Berkeley, CA.
 Emerging Infectious Disease Workshop, Madrid, Spain
 15th CRG-Centre for Genomic Regulation Symposium, Barcelona, Spain
 Keynote Speaker, MSGERC Meeting, Asilomar, CA
 Society for Glycobiology, New Orleans
 Retreat Keynote Speaker, Department of Microbiology, U Maryland
 Student Invited Speaker, McMaster University, Ontario, Portland
 Reed College, Portland, Oregon
 Merck Sharp and Dohme
 Keynote Speaker (student invited), McMaster University, Ontario, Canada
 Reed College, Portland, Oregon
 Merck Sharp and Dohme
 Boston University, Boston, MA
 Plenty Speaker, 2016 Society for Glycobiology, New Orleans, LA
 University of Pittsburgh, Pittsburgh, PA

2017 Westmere Lecture, Birmingham UK
 Harry Smith Lecture, Birmingham UK
 Boston University, Boston, MA
 Queens College, New York, NY
 University of Wisconsin-Madison, Madison, WI
 University of Kansas, Manhattan, KS
 Plenary Speaker, 2017 International Mtg of Microbiological Society of Korea, Seoul
 5th International Symposium of the Collaborative Research Centre, Tübingen, Germany
 GAP Summit 2017, Georgetown University, Washington, DC
 Food & Drug Administration, Silver Spring, MD
 Keynote Speaker, 2017-2018 Icahn SOM at Mount Sinai Annual Retreat, Ellenville, NY
 Mahmoud Ghannoum 20th Anniversary Symposium, University Hospitals Cleveland
 Medical Ctr, Ohio
 Middle Tennessee State University, Murfreesboro, TN
 National Research Council of the Swiss Nation, Berne, Switzerland
 Columbia Law School, New York, New York

2018 SPRIG Speaker, National Institutes of Health, Bethesda, MD
 Columbia Law School, New York, New York
 Plenary Speaker, 14th European Conference on Fungal Genetics, Haifa, Israel
 Speaker, Biosecurity Luncheon, The National Academies of Science, Engineering and
 Medicine, Washington, DC
 Speaker, Israel Society for Medical Mycology, Tel Aviv, Israel
 Speaker, United States Uniformed Health Services, Bethesda, MD
 Speaker, University of Connecticut, Storrs, CT
 Speaker, Signals of Trust Science Communication, Cold Spring Harbor, Lloyd Harbor, NY
 Speaker, University of Nebraska Medical Center, Omaha, NE
 Speaker, Broad Institute, Cambridge, MA
 Keynote Speaker, Kelsey Lecture, The University of Texas MD Anderson Cancer
 Center, Houston, Texas

Keynote Speaker, Van Andel Institute, Grand Rapids, MI
Speaker, Gordon Research Conference Extracellular Vesicles, Newry, ME
Speaker, Duke University MGM annual retreat, Durham, NC
Speaker, 8th BMMC Conference, Dublin, Ireland
Speaker Fungal CIFAR Workshop, Toronto, Canada
Speaker, Center for Valley Fever Symposium, Sacramento, California
Speaker, Tulane University School of Medicine, New Orleans, LA
Speaker, University of Pittsburgh, Pittsburgh, PA
Speaker, Columbia Law, New York, NY
Speaker, Albert Einstein College of Medicine, New York, NY

2019

Speaker, University of Alabama, Birmingham, Alabama
Speaker, University of Maryland Baltimore, Baltimore, Maryland
Speaker, Johns Hopkins School of Medicine, Baltimore, Maryland
Speaker, Columbia Law, New York, NY
Speaker, University of Arizona, Tucson, Arizona
Speaker, Baruch College CUNY, New York, NY
Speaker, APSA, Chicago, IL
Speaker, World Vaccine Congress, Washington, DC
Speaker, University of Buffalo, Buffalo, New York
Speaker, UT Southwestern Medical Center, Dallas, TX
Speaker, Merck Research Laboratories, Boston, MA
Speaker, Rocky Mountain Laboratories, Hamilton, MT
Speaker, Melanin Workshop, Silver Spring, MD
Speaker, Cancer Biology Training Consortium, Baltimore, MD
Keynote Speaker, Queen's University of Belfast, Belfast
Speaker, Cornell University, New York, New York
Speaker, NASA Glenn Research Center, Cleveland, Ohio
Speaker, National Academies of Sciences, Engineering and Medicine, Washington, DC
Speaker, Rockefeller University, New York, New York