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Dr. Nigil Haroon

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Sex: Male
Date of Birth: 2/02
Canadian Residency Status: Canadian Citizen
Country of Citizenship: Canada

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The primary information is denoted by (*)

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Janssen Biotech, Inc.
Exhibit 2055
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Dr. Nigil Haroon

Degrees

2019/9 - 2021/9	Master's Equivalent, MBA, Health and Life Sciences, Rotman School of Business Degree Status: Completed
2008/9 - 2012/11	Doctorate, PhD, Medical Sciences, University of Toronto Degree Status: Completed
	Supervisors: Robert D. Inman, 2008/9 - 2012/11
2005/1 - 2007/12	Doctorate Equivalent, DM (Doctorate of Medicine) - M.D., Clinical Immunology, Sanjay Gandhi Postgraduate Institute of Medical Sciences Degree Status: Completed
	Supervisors: Ramnath Misra, 2005/1 - 2007/12
2000/3 - 2003/5	Doctorate Equivalent, MD (Doctor of Medicine) - M.D., Internal Medicine, South Gujarat University Degree Status: Completed
	Supervisors: Samir V Trivedi, 2000/4 - 2003/3
1993/10 - 1998/4	Bachelor's Equivalent, MBBS (Bachelor of Medicine and Bachelor of Surgery) - M.D., Not Applicable, University of Kerala Degree Status: Completed

Credentials

2026/1	Chair in Translational Research and Drug Discovery in Inflammatory Rheumatic Diseases, University of Toronto
2025/7	Professor of Medicine and Rheumatology, University of Toronto
2022/1	Senior Scientist, Krembil Research Institute
2012/9	Graduate Faculty, Institute of Medical Sciences, University of Toronto
2012/1	Clinician Scientist, University Health Network
	Research Disciplines: Rheumatology

Recognitions

2026/1	Chair in Translational Research and Drug Discovery in Inflammatory Arthritis - 1,000,000 (Canadian dollar) University of Toronto Distinction

2023/9 John B. Winfield, MD Visiting Scholar
University of North Carolina at Chapel Hill
Honor
Recognized for academic accomplishments through invitation as the John B. Winfield, MD Visiting Scholar for the year.

2020/2 Diamond Jubliee Oration (Canadian dollar)
Trivandrum Medical College
Distinction
Invited to deliver the Diamond Jubilee Oration of the Trivandrum Medial College, in Kerala, India.

2020/2 Distinguished Alumnus Award (Canadian dollar)
Trivandrum Medical College
Distinction
Recognized as a distinguished alumnus of the medical school based on career achievements

2016/2 Young Investigator Award
Canadian Rheumatology Association
Distinction
Recognition of an investigator within the first 7 years of starting an independent career for contributions to science and research.

2014/12 Young Investigator Award (Arthritis Society) (Canadian dollar)
The Arthritis Society
Prize / Award
Recognition for a young arthritis researcher with salary support for 3 years

Research Disciplines: Rheumatology

2014/2 Young Faculty Award For Basic Sciences - 1,250 (Canadian dollar)
Canadian Rheumatology Association
Prize / Award
Recognition of a young faculty member for outstanding contribution to basic science research (Judged from abstract and presentation of research)

2013/10 Jane Bruckel Award - 10,000 (United States dollar)
Spondylitis Association of America
Prize / Award
Award of distinction for contributions to the care and understanding of spondyloarthritis.

Research Disciplines: Rheumatology

2013/2 Young Faculty Award Clinical Sciences - 1,250 (Canadian dollar)
Canadian Rheumatology Association
Prize / Award
Recognition of a young faculty member for outstanding contribution to clinical science research (Judged from abstract and presentation of research)

Research Disciplines: Rheumatology

2011/9 Chisholm Memorial Fellowship 2011 PGME
University of Toronto
Distinction
Recognition of an accomplished and high achieving fellow in post graduate studies at the department of medicine of University of Toronto.

2011/7	Joseph M. West Family Memorial Fund 2011, PGME University of Toronto Distinction Recognition of an accomplished and high achieving fellow in post graduate studies at the department of medicine of University of Toronto.
2011/6	Edward Christie Stevens Fellowship in Medicine 2011, PGME University of Toronto Distinction Recognition of an accomplished and high achieving fellow in post graduate studies at the department of medicine of University of Toronto.
2011/6	Miriam Neveren Memorial Award 2011 PGME University of Toronto Distinction Recognition of an accomplished and high achieving fellow in post graduate studies at the department of medicine of University of Toronto.
2011/6	CIBC New Investigator Award 2012 Arthritis Research Foundation Prize / Award Recognition of a young scientist with salary support. Research Disciplines: Rheumatology
2011/6	Best paper on Ogryzlo Day - 0 Division of Rheumatology, University of Toronto Distinction Rheumatology
2011/2	Basic Science Award 2011, CRA MCR Joint Congress, Mexico - 1,000 Canadian Rheumatology Association Distinction Rheumatology
2011/1	William S. Fenwick Fellowship 2011PGME University of Toronto Distinction Recognition of an accomplished and high achieving fellow in post graduate studies at the department of medicine of University of Toronto.
2010/5 - 2012/3	Vanier Scholarship 2010 - 100,000 (Canadian dollar) CIHR Prize / Award
2010/1	Best Overall Paper 2010, CRA, Quebec - 0 Canadian Rheumatology Association Distinction Rheumatology
2010/1	Henry A. Beatty Scholar 2010 - 10,000 University Health Network Distinction Rheumatology
2010/1	Best Scientific Paper 2010, Belgiium - 0 International Spondyloarthritis Congress Distinction

2009/6	Marie Curie Grant (EUROPE) 2009 Translational Research in Pediatric Rheumatology Distinction
2009/5 - 2010/4	SPARCC Fellowship 2009 - 25,000 (Canadian dollar) Spondyloarthritis Research Consortium of Canada Prize / Award
2009/2	Best Paper (Basic Science)2009, CRA, Alberta, Canada - 0 Canadian Rheumatology Association Distinction Immunology of ankylosing spondylitis
2008/6	International Spondylitis Fellowship 2008 Schering Plough Global Distinction
2008/5	Best Paper Award 2008, TWRI - 0 Toronto Western Research Institute Research Day Distinction
2007/11	Travel award for EULAR Congress 2007, Barcelona, Spain European League Against Rheumatism (EULAR) Distinction
2007/9	International Scholarship 2007 JCR Japan College of Rheumatology Distinction
2007/3	Fellowship in Clinical Immunology Society (USA), School in Autoimmune DIseases 2007, Santa Fe, New Mexico, USA Clinical Immunology Society Distinction
2006/11	DRA Young Investigator Award 2006 - 0 Indian Rheumatology Association Distinction
2006/6	International Scholarship 2006 JCR Japan College of Rheumatology Distinction
2006/2	DBT Travel Grant 2006 Department of BioTechnology, India Prize / Award
2006/1	CSIR Travel Grant 2006 The Council of Scinetific and Industrial Research, India Prize / Award
2005/1	Best Paper Award - 0 Association of Physicians of India Distinction
2004/8	Best Paper Award 2004 State Conference, Shoma '04 Association of Physicians of India, Karnataka Chapter Distinction

2004/1	First Rank (Entrance exam: Doctorate of Medicine) - 0 Sanjay Gandhi Postgraduate Institute of Medical Sciences Distinction This is a nation-wide test for DM training
1991/1	Best Outgoing Student - 0 St. John's School, Kayamkulam. Distinction

User Profile

Researcher Status: Researcher
Research Career Start Date: 2012/02/01
Engaged in Clinical Research?: Yes

Disciplines Trained In: Immunology, Internal Medicine, Rheumatology

Research Disciplines: Epidemiology and Biostatistics, Immunology, Rheumatology

Areas of Research: Arthritis / Osteo-Arthritis, Bone Tissue, Genetic Markers, Genetic Screening of Diseases, Joints (Articulations)

Fields of Application: Pathogenesis and Treatment of Diseases

Employment

2025/7	Professor of Medicine and Rheumatology Medicine, Medicine, University of Toronto
2022/1	Senior Scientist Schroeder Arthritis Institute, Toronto Western Hospital, Krembil Research Institute, UHN Full-time Tenure Status: Non Tenure Track
2018/4	Advisory Editor NA, Arthritis and Rheumatology Part-time Tenure Status: Non Tenure Track
2012/7	Associate Editor NA, International Journal of Rheumatology Part-time Tenure Status: Non Tenure Track
2012/1	Clinician Scientist Medicine, Toronto, University Health Network Full-time Tenure Status: Non Tenure Track
2018/7 - 2025/6	Associate Professor Medicine, Faculty of Medicine, University of Toronto Full-time Tenure Status: Non Tenure Track
2022/9 - 2024/9	President International Congress of Spondyloarthritis
2022/4 - 2024/4	President Canadian Rheumatology Association

2021/8 - 2022/8	President Association of Kerala Medical Graduates
2016/1 - 2021/12	Scientist Genes and Development, Toronto Western Hospital, Krembil Research Institute Full-time Tenure Status: Non Tenure Track
2012/2 - 2018/6	Assistant Professor Medicine, Medicine, University of Toronto Full-time Tenure Status: Non Tenure Track
2012/7 - 2015/12	Affiliate Scientist Genes and Development, University Health Network, Toronto Western Research Institute Full-time Tenure Status: Non Tenure Track
2008/1 - 2011/12	Clinical Research Fellow Medicine, Toronto, Toronto Western Hospital Full-time Tenure Status: Non Tenure Track
2004/7 - 2007/12	Clinical Fellow (Clinical Immunology) Clinical Immunology, SGPGIMS, LUcknow, Sanjay Gandhi PGI, Lucknow, India Full-time Tenure Status: Non Tenure Track
2003/8 - 2004/6	Physician Medicine, Manipal Campus, Kasturba Medical College, Manipal Full-time Tenure Status: Non Tenure Track
2003/1 - 2003/6	Senior Resident (Internal Medicine) Medicine, GMC, Surat, South Gujarat University Full-time Tenure Status: Non Tenure Track
2000/4 - 2002/12	Junior Resident (Internal Medicine) Medicine, GMC, Surat, South Gujarat University Full-time Tenure Status: Non Tenure Track
2000/1 - 2000/2	Resident Medical Officer Medicine, Sarala Memorial Hospital
1998/7 - 1999/7	Intern Medicine, Thiruvananthapuram, Medical College Trivandrum
1993/10 - 1998/4	Medical Student (MBBS) Medicine, Thiruvananthapuram, University of Kerala

Affiliations

The primary affiliation is denoted by (*)

(*) 2012/1	Co-Director, Spondylitis Program, University Health Network

Research Funding History

Awarded [n=20]

2026/1 - 2028/12
Principal Applicant

Sec16AMediated Autophagy and HLAB27 Trafficking: Mechanistic Insights Into Antigen Presentation in Axial Spondyloarthritis

Funding Sources:

Canadian Institutes of Health Research (CIHR)
Operating Grant
Total Funding - 344,250
Funding Competitive?: Yes

2025/3 - 2028/2
Principal Applicant

TRABID and anti-inflammatory checkpoint factors in SpA, Grant

Funding Sources:

Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 302,174
Portion of Funding Received - 302,174
Funding Competitive?: Yes

2024/8 - 2027/7
Principal Applicant

Exploring TRABID, A Novel Therapeutic Target in Spondyloarthritis, Grant

Funding Sources:

Krembil Foundation (The)
Operating Grant
Total Funding - 513,744
Portion of Funding Received - 513,744
Funding Competitive?: Yes

2021/7 - 2026/6
Principal Applicant

HIF1-alpha interacts with MIF to drive inflammation and new bone formation in spondyloarthritis, Grant, Operating

Funding Sources:

2021/7 - 2026/6 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 665,550 (Canadian dollar)
Portion of Funding Received - 665,550
Funding Competitive?: Yes

2023/1 - 2025/12
Principal Applicant

Pathogenic neutrophils induced by hypoxia: a potential novel therapeutic target in Spondyloarthritis, Grant

Funding Sources:

2023/1 - 2025/12 Arthritis Society (The)
Strategic Operating Grant
Total Funding - 450,000 (Canadian dollar)
Portion of Funding Received - 450,000
Funding Competitive?: Yes

2018/7 - 2025/6
Principal Applicant

Epidemiological studies on ankylosing spondylitis: identifying risk factors for morbidity and mortality, Grant, Operating

Funding Sources:

2018/1 - 2024/12 Toronto General and Western Hospital Foundation (TGWHF)
Arthritis Program
Total Funding - 350,000 (Canadian dollar)
Portion of Funding Received - 350,000
Funding Competitive?: No

2019/12 - 2022/12
Principal Investigator

Identifying the origin of new bone formation in spondyloarthritis and targeting Macrophage Migration Inhibitory Factor (MIF) to stop osteoproliferation in a pre-clinical., Grant, Operating
Clinical Research Project?: No

Funding Sources:

2019/12 - 2022/12 Arthritis Society (The)
Operating Grant
Total Funding - 359,856 (Canadian dollar)
Portion of Funding Received - 359,856
Funding Competitive?: Yes

2018/9 - 2021/8
Principal Applicant

Extensive Evaluation of Sec16a & Exploring Other Potential ER-Golgi Trafficking Molecules in the Pathogenesis of Spondyloarthritis., Grant

Funding Sources:

2018/9 - 2022/1 Krembil Foundation (The)
Operating Grant
Total Funding - 411,075 (Canadian dollar)
Portion of Funding Received - 411,075
Funding Competitive?: Yes

2018/7 - 2021/6
Principal Applicant

Therapeutic Targeting of MIF in a Spondyloarthritis Mouse Model, Grant, Operating

Funding Sources:

2018/7 - 2021/6 Canadian Institutes of Health Research (CIHR)
Operating Grant
Total Funding - 302,174 (Canadian dollar)
Portion of Funding Received - 302,174
Funding Competitive?: Yes

2018/7 - 2020/6
Principal Applicant

Towards Personalizing Arthritis Medicine, Grant, Equipment

Funding Sources:

2018/7 - 2020/6 Canada Foundation for Innovation (CFI)
John R. Evans Leaders Fund
Total Funding - 281,018 (Canadian dollar)
Portion of Funding Received - 281,018
Funding Competitive?: Yes

Co-applicant : Joan Wither

2018/1 - 2020/3
Principal Applicant

Pre-Clinical Studies Targeting MIF in Spondyloarthritis, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2018/1 - 2020/3
Krembil Research Institute
Collaborative Research Seed Grant
Total Funding - 75,000 (Canadian dollar)
Portion of Funding Received - 75,000 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2017/9 - 2019/8
Principal Applicant

Personalized medicine for ankylosing spondylitis, Grant

Funding Sources:

2017/9 - 2019/8
Canadian Institutes of Health Research (CIHR)
Catalyst Grant
Total Funding - 200,000 (Canadian dollar)
Portion of Funding Received - 200,000
Funding Competitive?: Yes

2018/9 - 2019/8
Principal Applicant

Human Immunology Spondyloarthritis Team (HUMISPOT) studying immunopathogenesis, disease heterogeneity and drug discovery in spondyloarthritis, Grant, Operating

Funding Sources:

2018/9 - 2019/8
Canadian Institutes of Health Research (CIHR)
Team Grant: Human Immunology Initiative: Research Teams (2018-10-16)
Total Funding - 20,000 (Canadian dollar)
Portion of Funding Received - 20,000
Funding Competitive?: Yes

2016/3 - 2019/2
Principal Applicant

Cell Trafficking Abnormalities In Ankylosing Spondylitis., Grant, Operating
Clinical Research Project?: Yes

Funding Sources:

2016/3 - 2019/2
Krembil Foundation (The)
Operating Grant
Total Funding - 251,600 (Canadian dollar)
Portion of Funding Received - 251,600
Funding Competitive?: Yes

2015/7 - 2018/6
Principal Investigator

Studies on treatment and long term complications of ankylosing spondylitis, Grant

Funding Sources:

2015/7 - 2018/6
Other
Toronto General And Western Hospital Foundation
Total Funding - 150,000 (Canadian dollar)
Portion of Funding Received - 150,000
Funding Competitive?: No

2014/10 - 2017/9
Co-applicant

Validation of a Screening and Referral Strategy for a Primary Care Low-Back Pain Inter- Professional Model of Care for Patients with Inflammatory Back Pain (IBP), Grant, Operating

Funding Sources:

2014/9 - 2017/8
The Arthritis Society
Operating Grant
Total Funding - 300,000 (Canadian dollar)
Portion of Funding Received - 60,000
Funding Competitive?: Yes

Co-applicant : Robert D. Inman;

Co-investigator : Anthony Perrucio;

Principal Applicant : Raja Rampersaud

2016/7 - 2017/6
Principal Applicant

Definitive treatment of AS by blocking Macrophage Migration Inhibitory Factor (MIF), Grant

Funding Sources:

2016/7 - 2017/6 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 100,000 (Canadian dollar)
Portion of Funding Received - 100,000
Funding Competitive?: Yes

2016/7 - 2017/6
Principal Applicant

Mental Health Services Utilization and Serous Mental Health Issues in Rheumatoid Arthritis and Ankylosing Spondylitis, Grant, Operating

Funding Sources:

2016/7 - 2017/6 University of Toronto
Pfizer Chair Competition
Total Funding - 20,000 (Canadian dollar)
Portion of Funding Received - 10,000
Funding Competitive?: Yes

Principal Applicant : Bindee Kuriya

2012/1 - 2015/1
Principal Investigator

CIBC New Investigator Award, Fellowship

Funding Sources:

2012/1 - 2015/1 Arthritis Research Foundation
CIBC New Investigator Award
Total Funding - 195,000 (Canadian dollar)
Funding Competitive?: Yes

2010/1 - 2013/1
Principal Applicant

Vanier Scholarship Award, Scholarship

Funding Sources:

2010/1 - 2013/1 CIHR
Vanier Scholar
Total Funding - 100,000 (Canadian dollar)
Funding Competitive?: Yes

Completed [n=6]

2014/10 - 2015/9
Principal Investigator

Studies on the complex interaction of autophagy with endoplamic reticulum aminopeptidase 1, unfolded protein response and natural killer cell response in the pathogenesis of ankylosing spondylitis, Grant

Funding Sources:

2014/10 - 2015/9 Canadian Institutes of Health Research (CIHR)
Operating Grant - PA: IMHA - New Invest.- Musculoskeletal Health Bridge Funding
Total Funding - 100,000 (Canadian dollar)
Portion of Funding Received - 100,000
Funding Competitive?: Yes

2012/7 - 2015/7
Principal Investigator

Identifying risk factors for vascular mortality in ankylosing spondylitis, Grant

Funding Sources:

2012/7 - 2013/7 Arthritis Centre of Excellence
The Arthritis Centre of Excellence Funding 2012
Total Funding - 100,000 (Canadian dollar)
Portion of Funding Received - 100,000
Funding Competitive?: No

2012/7 - 2015/6
Principal Investigator

Understanding the Pathogenesis and Identifying Novel Therapeutic Targets in Ankylosing Spondylitis by Studying the Biology and Protein Interactions of ERAP1, Grant

Funding Sources:

2012/7 - 2015/6 The Arthritis Society
Young Investigator Award
Total Funding - 296,000 (Canadian dollar)
Portion of Funding Received - 296,000
Funding Competitive?: Yes

Collaborator : Neil Winegarden; Robert Inman

2012/7 - 2015/6
Principal Investigator

The Arthritis Society Minor Equipment Grant 2012, Grant

Funding Sources:

2012/7 - 2015/6 The Arthritis Society
The Arthritis Society Minor Equipment Grant 2012
Total Funding - 25,000 (Canadian dollar)
Portion of Funding Received - 25,000
Funding Competitive?: Yes

2012/7 - 2013/6
Principal Investigator

Studies on immunogenetics of ankylosing spondylitis, Grant

Funding Sources:

2012/7 - 2013/6 The Arthritis Program, Toronto
The Arthritis Program Funding 2012
Total Funding - 50,000 (Canadian dollar)
Portion of Funding Received - 50,000
Funding Competitive?: No

2009/1 - 2010/1
Principal Applicant

SPARCC Fellowship Support, Fellowship

Funding Sources:

2009/1 - 2010/1 Spondyloarthritis Research Consortium of Canada
SPARCC Fellowship
Total Funding - 25,000 (Canadian dollar)
Funding Competitive?: No

Courses Taught

2021/12/01

Lecturer, University of Toronto
Course Title: Foundations in Musculoskeletal Science
Course Code: MSC3001H
Course Topic: Osteoimmunology
Course Level: Graduate
Lecture Hours Per Week: 2

2020/12/09 Lecturer, University of Toronto
Course Title: Foundations of Musculoskeletal Sciences
Course Code: MSC3001H
Course Level: Graduate

Course Development

Co-Director, Association of Kerala Medical Graduates
Course Title: Launchpad: Health Care Leadership
Course Level: Post Graduate
A leadership course to help physicians in career advancement and enhance their leadership skills.

Program Development

2015/1 Committee Member, University of Toronto
Program Title: Collaborative Program in Musculoskeletal Sciences
Course Level: Graduate

Student/Postdoctoral Supervision

Bachelor's [n=10]

2018/7 - 2018/8
Principal Supervisor
Shifaz Veettil (Completed) , Western University
Degree Name: MD
Student Degree Start Date: 2018/7
Thesis/Project Title: Radiographic scoring methods in Ankylosing Spondylitis
Present Position: Medical Student

2018/7 - 2018/9
Principal Supervisor
Malik El Feghi (Completed) , Western University
Degree Name: MD
Student Degree Start Date: 2018/7
Thesis/Project Title: Prostaglandin Receptor EP4 and Bone formation.
Present Position: Medical Student

2018/7 - 2018/9
Principal Supervisor
Nasir Kharma (Completed) , King's College London
Degree Name: MBBS
Student Degree Start Date: 2018/7
Thesis/Project Title: Effect of ERAP1 on colitis
Present Position: Medical Student, KCL, King's College London

2017/9 - 2018/9
Principal Supervisor
Prabjit Ajrawat (Completed) , University of Toronto
Student Degree Start Date: 2017/9
Thesis/Project Title: Meta analysis of TNF inhibitor use and disease modification in AS
Present Position: Student

2017/6 - 2017/8
Principal Supervisor
Shaun Hanycz (Completed) , University of Toronto
Student Degree Start Date: 2017/7
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: MIF gene polymorphisms and spinal fusion in ankylosing spondylitis
Present Position: Student

2016/6 - 2016/9
Principal Supervisor
Archita Srinath (Completed) , McMaster University
Student Degree Start Date: 2016/6
Thesis/Project Title: Effect of Smoking on osteoblasts.
Present Position: Graduate Student

2016/6 - 2016/9
Principal Supervisor
Bruce Sheng (Completed) , University of Toronto
Student Degree Start Date: 2016/6
Thesis/Project Title: Impact of family history on ankylosing spondylitis disease severity
Present Position: Medical Student

2015/5 - 2015/8
Principal Supervisor
Matthew He (Completed) , Western University
Student Degree Start Date: 2015/6
Thesis/Project Title: Developing KIR3DL1 and KIR3DL2 stable cell lines for NK cell in vitro assays
Present Position: Undergraduate student in Medical Sciences

2015/5 - 2015/9
Principal Supervisor
Janogini Muralitharan (Completed) , McMaster University
Student Degree Start Date: 2015/5
Thesis/Project Title: Effect of MIF on osteoblast proliferation
Project Description: Link between ERAP2 and unfolded protein response
Present Position: Student, Honours Biology and Pharmacology

2014/1 - 2014/8
Principal Supervisor
Kirby Yee (Completed) , McMaster University
Student Degree Start Date: 2014/1
Thesis/Project Title: Impact of ERAP2 variants on unfolded protein response and autophagy
Present Position: Student, McMaster University

Bachelor's Equivalent [n=3]

2019/6 - 2019/9
Principal Supervisor
Nasir Kharma (Completed) , Kings College London
Student Degree Start Date: 2018/6
Thesis/Project Title: Influence of ERAP1 on bowel inflammation
Present Position: Summer Student

2019/6 - 2019/9
Principal Supervisor
Sandra Vijayan (Completed) , Royal College of Surgeons in Ireland
Student Degree Start Date: 2018/6
Thesis/Project Title: Sec16A interactome study in ankylosing spondylitis
Present Position: Summer Student

2016/6 - 2016/9
Principal Supervisor
Xiaoyan Zhao (Completed) , University of Toronto
Student Degree Start Date: 2016/6
Thesis/Project Title: Predictors of Uveitis Flares in Ankylosing Spondylitis
Present Position: Medical Student

Bachelor's Honours [n=2]

2019/6 - 2019/9
Principal Supervisor
Alyessa Hussain (Completed) , University of Toronto
Student Degree Start Date: 2019/7
Thesis/Project Title: Influence of HLA-B27 on colitis onset
Present Position: Summer Student

2019/6 - 2019/9
Principal Supervisor
Jared Riviere (Completed) , Western University
Student Degree Start Date: 2018/6
Thesis/Project Title: The role of MIF in pulmonary fibrosis
Present Position: Summer Student

Master's Thesis [n=4]

2022/1 - 2024/4
Principal Supervisor
Evelyne Gendron (In Progress) , University of Toronto
Student Degree Start Date: 2022/9
Thesis/Project Title: The effect of alcohol use on axial spondyloarthritis disease manifestations.
Present Position: Assistant Professor, Universitè Laval

2016/9 - 2019/8
Principal Supervisor
Archita Srinath (Completed) , University of Toronto
Student Degree Start Date: 2016/9
Thesis/Project Title: Predicting response to TNF inhibitors by cell specific gene expression array
Present Position: Student

2016/1 - 2018/7
Principal Supervisor
Ismail Sari (Completed) , University of Toronto
Degree Name: PhD
Student Degree Start Date: 2015/9
Student Degree Received Date: 2018/7
Thesis/Project Title: Radiographic progression in axial spondyloarthritis
Present Position: Professor of Medicine, Dokuz Eylul University Izmir, Turkey

2012/9 - 2015/9
Principal Supervisor
Hassan Abdullah (Completed) , University of Toronto
Student Degree Start Date: 2012/9
Student Degree Received Date: 2015/7
Student Canadian Residency Status: Permanent Resident
Thesis/Project Title: HLA-B27: KIR interaction and the modulatory effect of ERAP1 variants in pathogenesis of ankylosing spondylitis
Present Position: Master's Degree Completed

Doctorate [n=5]

2024/9 - 2029/8
Principal Supervisor
Phuong Nguyen, University of Toronto
Thesis/Project Title: Personalized medicine for treating spondyloarthritis through a multimodal-multiomics machine learning approach
Present Position: PhD Student

2024/9 - 2028/8
Principal Supervisor
Patricia Remalante-Rayco, University of Toronto
Thesis/Project Title: The role of DRAK2 in the pathogenesis of axSpA
Present Position: PhD student

2021/1 - 2026/1
Principal Supervisor
Archita Srinath (In Progress) , University of Toronto
Student Degree Start Date: 2021/1
Student Degree Expected Date: 2026/1
Thesis/Project Title: The role of ZRANB1 in the pathogenesis of axial spondyloarthritis
Present Position: Graduate Student

2019/9 - 2026/9
Principal Supervisor
Shaghayegh Foroozan Boroojeni (In Progress) , University of Toronto
Student Degree Start Date: 2019/9
Student Degree Expected Date: 2024/8
Thesis/Project Title: Deciphering the role of macrophage migrating inhibitory factor in colitis
Present Position: Graduate Student

2018/7 - 2023/7
Principal Supervisor
Akihiro Nakamura (Completed) , University of Toronto
Student Degree Start Date: 2018/9
Student Degree Received Date: 2022/9
Thesis/Project Title: Targeting MIF in spondyloarthtitis.
Project Description: The role of MIF In pathogenesis of spondyloarthritis
Present Position: Assistant Professor of Medicine, Clinician Scientist, Queens University

Post-doctorate [n=22]

2025/9 - 2026/8 Co-Supervisor	Rayed Alshamri, University of Toronto Thesis/Project Title: Profiling Chronic Nonbacterial Osteomyelitis (CNO) in an adult longitudinal cohort Present Position: Clinical Research Fellow
2025/7 - 2026/6 Co-Supervisor	Maryah Almullah, University of Toronto Thesis/Project Title: The effect of HLA-B27 on clinical presentation of axial Sponsyloarthritis Present Position: Clinical Research Fellow
2024/4 - 2026/3 Principal Supervisor	Fethi Khiter, Krembil Research Institute, UHN Thesis/Project Title: The role of autophagy in axial spondyloarthritis pathogenesis Present Position: PDF
2021/7 - 2024/8 Co-Supervisor	Patricia Remalante (In Progress) , University of Toronto Student Degree Start Date: 2021/7 Student Canadian Residency Status: Student Work Permit Thesis/Project Title: BIOTAPE: Biologic Tapering in AS patients with well controlled disease activity. RCT. Present Position: PDF
2021/3 - 2022/2 Co-Supervisor	Maha Anbar (In Progress) , University of Toronto Student Degree Start Date: 2021/2 Student Canadian Residency Status: Study Permit Thesis/Project Title: Biologic use in patients with uncontrolled AS disease activity: A quality appraisal Present Position: Consultant Rheumatologist
2020/6 - 2021/6 Principal Supervisor	Masaki Kusuda (Completed) , Krembil Research Insititute Student Degree Start Date: 2020/8 Student Degree Received Date: 2021/7 Thesis/Project Title: Unveiling the role of GM-CSF on new bone formation in Spondyloarthritis. Present Position: Postdoctoral fellow
2018/4 - 2020/4 Principal Supervisor	Ayantika Talukdar (Completed) , Krembil Research Institute Student Degree Start Date: 2018/6 Thesis/Project Title: Cell Specific Sequencing an dPersonalized medicine in SpA Present Position: Postdoctoral fellow
2018/1 - 2019/12 Principal Supervisor	Ejaz Pathan (Completed) , University of Toronto Student Degree Start Date: 2018/1 Thesis/Project Title: MIF in Psoriatic Arthritis Present Position: Postdoctoral Fellow
2016/7 - 2018/6 Principal Supervisor	Ercan Sevket Tunc (Completed) , University of Toronto Student Degree Start Date: 2016/7 Thesis/Project Title: Radiographic progression and clinical impact in ankylosing spondylitis patients Present Position: Postdoctoral Fellow
2015/12 - 2018/12 Principal Supervisor	Michael Zeng (Completed) , Krembil Research Institute Student Degree Start Date: 2015/12 Thesis/Project Title: Cellular trafficking abnormalities in ankylosing spondylitis Present Position: Post doctoral fellow

2015/11 - 2016/10 Co-Supervisor	Mansour Sayer Alazmi (Completed) , University Health Network Student Degree Start Date: 2015/11 Thesis/Project Title: Predictors of primary TNF inhibitor failure in ankylosing spondylitis Present Position: Post Doctoral Fellow
2015/9 - 2016/7 Principal Supervisor	Shirine Usmani (Completed) , University of Toronto Student Degree Start Date: 2015/10 Thesis/Project Title: Smoking and DiseaseProgression in AS Present Position: Resident in Medicine
2014/11 - 2015/10 Co-Supervisor	Jonathan Chan (Completed) , University of British Columbia Student Degree Start Date: 2014/11 Thesis/Project Title: Development of a novel CT scoring system for pelvis CT in ankylosing spondylitis. Present Position: Spondylitis Clinical Fellow, University of Toronto
2014/9 - 2016/12 Co-Supervisor	Ismail Sari (Completed) , University of Toronto Student Degree Start Date: 2014/7 Thesis/Project Title: Predictors of radiographic progression in AS Present Position: Post Doctoral Fellow
2014/9 - 2014/10 Principal Supervisor	Stephanie Yang (Completed) , University of Toronto Student Degree Start Date: 2014/1 Student Degree Received Date: 2014/2 Thesis/Project Title: Impact of smoking on TNF inhibitor therapy in ankylosing spondylitis Present Position: Selected for Rheumatology Fellowship in University of Toronto
2014/7 - 2016/6 Co-Supervisor	Ahmed Omar (Completed) , University of Toronto Student Degree Start Date: 2014/7 Thesis/Project Title: Differences between receptor and monoclonal TNF inhibitors in controlling uveitis attacks of AS patients. Present Position: Postdoc Fellow
2014/7 - 2017/6 Principal Supervisor	Vidya Ranganathan (Completed) , Toronto Western Research Institute Student Degree Start Date: 2014/6 Thesis/Project Title: The role of Macrophage Inflammatory Protein and CD-74 in new bone formation of ankylosing spondylitis Project Description: The role of bone homeostatic pathways in the pathogenesis of ankylosing spondylitis Present Position: Post Doctoral Fellow
2014/7 - 2015/6 Academic Advisor	Khawla Al Ghanim (Completed) , University of Toronto Student Degree Start Date: 2013/6 Thesis/Project Title: Longitudinal Rheumatic Disease Clinics Present Position: Rheumatology Fellow, University of Toronto
2013/11 - 2013/12 Principal Supervisor	Tristan Boyd (Completed) , Western University Student Degree Start Date: 2014/3 Thesis/Project Title: Predicting uveitis flares in ankylosing spondylitis Present Position: Research Fellow
2013/2 - 2013/4 Co-Supervisor	Arundip Azaduzzman (Completed) , University of Toronto Student Degree Start Date: 2014/7 Thesis/Project Title: Neurological adverseeffects of TNF-inhibitors. Present Position: Rheumatology Fellow in University of Toronto

2012/9 - 2015/12 Principal Supervisor	Zhenbo Zhang (Completed) , Krembil Research Institute Student Degree Start Date: 2012/9 Student Canadian Residency Status: Permanent Resident Thesis/Project Title: The impact of ERAP1 and ERAP2 variants on HLA-B27 misfolding and the unfolded protein response Project Description: The role of ERAP1 on unfolded protein response Present Position: Post Doctoral Fellow
2012/7 - 2013/6 Co-Supervisor	Dinny Wallis (Completed) , Toronto Western Hospital Student Degree Start Date: 2012/9 Thesis/Project Title: Risk of infections in AS patients on anti-TNF agents. Project Description: Assessing the infectious complications in Ankylosing Spondylitis patients exposed to TNF inhibitors Present Position: Rheumatologist, Southampton, UK.

Staff Supervision

Editorial Activities

2022/4 - 2026/3	Editorial Board, Canadian Rheumatology Association Journal, Journal
2022/9 - 2023/7	Guest Editor, Best Practice & Research Clinical Rheumatology, Journal
2018/1 - 2020/12	Advisor Editor, Arthritis and Rheumatology, Journal
2012/1 - 2020/12	Associate Editor, International Journal of Rheumatic Diseases, Journal

Mentoring Activities

	Program Committee Advisor, University of Toronto Number of Mentorees: 7 Mentorees: Joy Feld Tarimobo Otobo Vanessa Ocampo Paul Tsoukas Renuka Ramlogan Enoch Yau Addison Pacheco
2023/1	Faculty Mentor, University of Toronto Number of Mentorees: 1 Mentorees: Enrique Sanz Garcia Faculty mentor for new Clinician Investigator Oncology Staff, coming on faculty from fellow position.
2018/1	Mentor - Clinical Supervision, University of Toronto Number of Mentorees: 2 Clinical Supervision of Clinical Research Fellow (MD)- Spondylitis Program
2012/4	Summer Student Supervisor, University of Toronto Number of Mentorees: 5 Mentorees: Sandra Vijayan Jared Riviere Shaun Hanycz (2017) Xiaoyan Y Zhao Nasir Kharma Supervised for the SURP program of IMS
2010/6	Mentor, University of Toronto Number of Mentorees: 12 Summer Mentorship Program for high-school students, University of Toronto

2008/4	Facilitator, University of Toronto Number of Mentorees: 6 For undergraduate student discussion: Dying and Death: Multifaith Approaches, Interprofessional Sensitivity and Personal Awarenes
2004/7	Medicine Faculty, Manipal Academy of Higher Education Number of Mentorees: 10 In charge of teaching the MSc Yoga therapy students in Medicine (Manipal Academy of Higher Education, MAHE, 2004)
2004/1	Medicine Faculty, Manipal Academy of Higher Education Number of Mentorees: 10 In charge of teaching the MSc Yoga therapy students in Medicine (Manipal Academy of Higher Education, MAHE, 2004)
2003/7 - 2004/6	Assistant Professor of Medicine and Rheumatology, Manipal Academy of Higher Education, India Number of Mentorees: 5 Rounds, Clinical supervision, didactic lectures, ASCM sessions. Medical student, resident and fellow teaching.

Journal Review Activities

2016/1	Reviewer,Experimental and Molecular Medicine,Nature Number of Works Reviewed / Refereed: 1
2015/1	Reviewer,CMAJ Open Number of Works Reviewed / Refereed: 1
2014/1	Reviewer,Annals of Internal Medicine Number of Works Reviewed / Refereed: 3
2014/1	Reviewer,Rheumatology Oxford Number of Works Reviewed / Refereed: 1
2013/8	Reviewer,Arthritis and Rheumatology Number of Works Reviewed / Refereed: 19
2013/7	Reviewer,APLAR journal of Rheumatology Number of Works Reviewed / Refereed: 1
2013/7	Reviewer,Journal of Dermatological Science Number of Works Reviewed / Refereed: 1
2013/7	Reviewer,Arthritis Research and Therapy Number of Works Reviewed / Refereed: 1
2013/1	Reviewer,PLOS One Number of Works Reviewed / Refereed: 3
2013/1	Reviewer,Annals of Rheumatic Diseases Number of Works Reviewed / Refereed: 16
2012/1	Reviewer,Seminars of Arthritis and Rheumatism Number of Works Reviewed / Refereed: 2
2012/1	Reviewer,Arthritis Care and Research Number of Works Reviewed / Refereed: 5
2012/1	Associate Editor,International Journal of Rheumatic Diseases Number of Works Reviewed / Refereed: 136

2008/4	Reviewer,Journal of Rheumatology Number of Works Reviewed / Refereed: 30

Graduate Examination Activities

	PhD External Examiner, Mohammed Uddin, Memorial University of Newfoundland
2020/5	PhD Oral Exam Chair, Bassem Hamandi, University of Toronto
2018/10	PhD Oral Exam Chair, Richard Lo, University of Toronto
2017/10	PhD External Examiner, Stephanie Harvard, University of British Columbia
2017/8	Examiner, Adam Gibson, University of Toronto
2016/7	Examiner, Jonathan Chio, Institute of Medical Sciences, University of Toronto
2016/6	Examiner, Yue Chen Yao, Immunology, University of Toronto
2016/6	Examiner, Alicia Fisch, Immunology, University of Toronto
2015/6	Chair, Alanna Bridgman, Institute of Medical Sciecnes, University of Toronto
2014/6	Candidacy Committee Chair, Antigona Ulndreaj, Institute of Medical Sciences, University of Toronto
2013/9	Chair, Saber Ghadakzadeh, Institute of Medical Sciences, University of Toronto
2019/6 - 2019/7	Examiner, Dario Ferri, University of Toronto
2018/8 - 2018/8	Examiner, Leon Parsaud, University of Toronto

Research Funding Application Assessment Activities

2015/3	External Reviewer, Rheumafonds, Funder, Academic Reviewer, Dutch Arthritis Foundation, Dutch Arthritis Foundation Number of Applications Assessed: 1
2017/11 - 2018/3	External Reviewer, Centre Transdisciplinaire de Recherche sur la Longévité, Funder, Academic Reviewer, Institut Pasteur, Centre Transdisciplinaire de Recherche sur la Longévité Number of Applications Assessed: 1
2014/7 - 2015/6	External Reviewer, Sheikh Hamdan Award for Medical Sciences, Organization, Academic Reviewer, Sheikh Hamdan Award for Medical Science Number of Applications Assessed: 1
2012/7 - 2013/6	External Reviewer, Grants Review Committee, Funder, Academic Reviewer, Arthritis Research UK, Arthritis Research UK Number of Applications Assessed: 1

Knowledge and Technology Translation

2020/6 - 2020/6	Medical Expert, Community Engagement Target Stakeholder: General Public Outcome / Deliverable: Invited by famous playback singer Mr. G. Venugopal to answer livequestions from the public on COVID19 immunity, what the pandemic would looklike, precautions, how to protect our families, treatment and vaccines. Thiswas a program for the general lay public and it was **viewed over 20,000 times.**

2020/4 - 2020/4 Organizer and Moderator, Community Engagement
Target Stakeholder: Healthcare Personnel
Outcome / Deliverable: Organized one of the first international panel discussions on COVID-19including experts from USA, Italy, Singapore, India and Canada. This was doneprimarily to educate the countries where COVID19 had not made a major impactyet and help them prepare. This was inaugurated by the Chief Minister ofKerala, Mr. Pinarayi Vijayan and has been **viewed over 9000 times.**

2015/1 - 2015/12 Medical Expert, Community Engagement
Target Stakeholder: General Public
Outcome / Deliverable: Helped with content review for the Canadian Spondylitis Association (Patient Organization) Website.
Activity Description: Helped with content review for the Canadian Spondylitis Association (Patient Organization) Website.

2013/1 - 2015/12 Committee Member, Policy/Regulation Development
Target Stakeholder: Healthcare Personnel
Outcome / Deliverable: Member of the Canadian Spondyloarthritis Treatment Recommendations Committee.
Activity Description: Member of the Canadian Spondyloarthritis Treatment Recommendations Committee.

2013/7 - 2015/6 Committee Member, Policy/Regulation Development
Target Stakeholder: Healthcare Personnel
Outcome / Deliverable: Member of the American College of Rheumatology Spondyloarthritis Treatment Recommendations Committee
Activity Description: Member of the American College of Rheumatology Spondyloarthritis Treatment Recommendations Committee

2012/7 - 2014/6 Chair, Policy/Regulation Development
Group/Organization/Business Serviced: Canadian Rheumatology Association
Target Stakeholder: Healthcare Personnel
Outcome / Deliverable: I chaired the Wait Time Alliance Committee of the Canadian Rheumatology Association. We established the maximum acceptable patient wait times for assessment, investigations and treatment of 6 major rheumatic diseases. These recommendations have been accepted as the benchmark towards which Canadian Provinces will work for improving health care of Canadians with rheumatic diseases.
Activity Description: I chaired the Wait Time Alliance Committee of the Canadian Rheumatology Association. We established the maximum acceptable patient wait times for assessment, investigations and treatment of 6 major rheumatic diseases. These recommendations have been accepted as the benchmark towards which Canadian Provinces will work for improving health care of Canadians with rheumatic diseases.

International Collaboration Activities

2019/7 Lead Investigator, Korea, South
Studies on spinal fusion in axial spondyloarthritis, in collaboration with Hanyang University, Seoul.

2013/6 - 2018/12 Lead Investigator, Italy
Collaborating on immunopathogenesis studies in AS including autophagy, unfolded protein response, MIF, CX3CR1 and PGE2.

2013/1 - 2017/12 Co-Investigator, Australia
International Genetics of Ankylosing Spondylitis (IGAS) Consortium

2016/8 - 2017/7	Lead Investigator, France Collaborating on the use of fluorescent tagged HLA-B27 constructs for studying intracellular trafficking.
2010/1 - 2015/1	Co-Investigator, Germany Collaborating in a study looking at the effect of ERAP1 variants on the presentatin of peptides on HLA-B27
2012/3 - 2014/3	Lead Investigator, United States of America Lead investigator of a study looking at the effect of TNF-inhibitors on radiographic progression in AS. Participants: Univ. of Toronto, NIH, UCLA, Cedars-Sinai and UTHS Houston.

Committee Memberships

2022/4	Committee Member, Senior Advisory Council, University Health Network
2022/4	Committee Member, Medical Leadership Council, University Health Network
2017/3	Committee Member, Clinical Research Task Force, University Health Network Member of the CRTF charged with developing and streamlining a research strategy for the entire organization to improve efficiency and productivity.
2013/7	Committee Member, Canadian Rheumatology Association / Spondyloarthritis Consortium of Canada Treatment Guidelines for Spondyloarthritis., Canadian Rheumatology Association Participant in the CRA/SPARCC treatment guidelines committee. Development of Canadian guidelines for the management of SpA
2013/7	Committee Member, Treatment Guidelines for Spondyloarthritis, American College of Rheumatology Member of the ACR Literature Review Committee for developing treatment guidelines for SpA. Development of ACR guidelines for SpA treatment. ACR guidelines are used internationally for the management of SpA.
2012/12	Committee Member, Research Ethics Board, University Health Network
2021/1 - 2022/12	Committee Member, Physician Advisory Council, Synapse Digital Transformation, University Health Network
2016/1 - 2019/1	Chair, Abstracts Selection Committee, American College of Rheumatology Chair of the abstract selection committee in the section: 'Spondyloarthropathies and Psoriatic Arthritis – Clinical Aspects and Treatment'
2017/9 - 2018/8	Chair, AKMG Annual Convention 2018, Association of Kerala Medical Graduates Organized the 39th Annual Convention of AKMG in Ottawa. This was a large meeting with 500 attendees, a royal college accredited CME and a total budget of $500,000 CAD. The meeting was judged as the most successful meeting in the history of AKMG. It was attended by High Commissioner HE Vikas Swarup, Senior Minister of Ontario Hon. Lisa Macleod, Hon. Jim Watson Mayor of Ottawa, Hon. Mark Taylor Deputy Mayor of Ottawa, Deputy Premier of Yukon Hon. Ranj Pillai, Dr. Shashi Tharoor former External Affairs minister, government of India and Former Under Secretary general, United Nations. The meeting was also attended by Academy award winner Dr. Resul Pookutty who conducted the world premiere of his movie at AKMG 2018. Rosalyn Runte, CEO of CFI and Dr. Salim Yusuf, Order of Canada conducted a panel discussion on health innovation.
2011/7 - 2017/12	Committee Member, Abstracts Review, American College of Rheumatology
2015/7 - 2015/12	Committee Member, Abstract Review, American College of Rheumatology

2014/10 - 2015/6	Committee Member, Abstract Review, European League Against Rheumatism
2014/7 - 2014/12	Committee Member, Abstract Review, American College of Rheumatology
2012/7 - 2014/3	Committee Member, Canadian Rheumatology Association National Council, Canadian Rheumatology Association I attended the national council meetings of the CRA, a board where all matters important to the membership are discussed and resolved.
2012/7 - 2014/3	Chair, Wait Time Alliance, Canadian Rheumatology Association Chair the WTA initiative of CRA for assessing and recommending measures to reduce wait times to see a rheumatologist in Canada. Part of the general WTA initiative of the CMA. Established wait times for all major rheumatic diseases and released in the WTA report card in Ottawa in June 2014.

Most Significant Contributions

2016/12	Functional interaction of ERAP2 and HLA-B27activates the unfolded protein response. My studies on the role of ERAP2 in AS, led to the first evidence of a functional significance of the ERAP2 polymorphisms associated with AS. In this study published in arthritis and rheumatology, we showed that polymorphisms that led to decreased ERAP2 function affected antigen processing and HLA-B27 expression in AS patients. The findings were validated using an in vitro system by knocking down ERAP2 in cell lines.
2017/9	MIF drives both inflammation and new bone formation in Ankylosing Spondylitis Till date we have not identified a common link between inflammation and new bone formation, the two cardinal features of AS. My lab showed for the first time that macrophage migration inhibitory factor (MIF) is a significant player in the pathogenesis of AS. My lab showed that Serum MIF can reliably predict progression in patients with AS. My postdoctoral fellow Dr. Ranganathan went on to show that MIF can activate immune cells to produce the pro-inflammatory cytokine TNF as well as drive osteoblasts to new bone formation. This study was published in Arthritis and Rheumatology and formed the basis of a recently funded CIHR grant on targeting MIF in an animal model of SpA.
2013/10	The Impact of TNF-inhibitors on radiographicprogression in Ankylosing Spondylitis. I led this landmark study by bringing together investigators from 5 North American centres. This was the first study to show that TNF inhibitors can slow progression in ankylosing spondylitis. This publication led to a paradigm shift in the management of AS patients as it was previously thought that disease modification is not possible in AS.
2012/4	Endoplasmic Reticulum Aminopeptidase 1 (ERAP1)has functionally significant interaction with HLA B27 and dictates subtypespecificity in ankylosing spondylitis. This is the first study to show that ERAP1 variants (recently identified as the second strongest genetic association with AS after HLA-B27) can affect the expression of HLA-B27.
2016/9	Development of a Screening Tool for the Identification of Sacroiliitis in Computed Tomography Scans of the Abdomen. We developed a new scoring system for evaluating sacroiliiac joints in the CT scans. Till date there was no validated system for evaluating and scoring SI joints for sacroiliitis in CT scans. This system has now been validated in a large inflammatory bowel disease (IBD) cohort. Around 10% of IBD patients have sacroiliitis and almost all get CT scans at some point of time for evaluating their bowel disease. With this scoring system we can reliably identify patients with sacroiliitis from these existing CT scans for further assessment by a rheumatologist.

2015/9 Ankylosing Spondylitis patients have a higher risk of cardiovascular and cerebrovascular mortality.
I have expertise in doing studies on large population databases. I published a large study on 25,000 AS patients, reporting a significant increase in the prevalence of AS especially in females. In a separate paper comparing 21,000 AS patients to 87,000 non-AS controls, I reported a 36% higher risk of dying from heart attacks and strokes in AS patients. This is the largest study of its kind and was published in the Annals of Internal Medicine, the highest ranked subspecialty internal medicine journal (impact factor: 16.59).

Presentations

1. (2025). Personalizing targeted therapies in SpA - influence of phenotype on outcomes. Indian Rheumatology Association Confernece 2025, New Delhi, India
   Main Audience: Knowledge User
   Invited?: Yes
2. (2025). HIF-1α and MIF Enhance Neutrophil-Driven Type 3 Immunity and Chondrogenesis in a Murine Spondyloarthritis Model. American College of Rheumatology, Chicago, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
3. (2025). Meet the Professor Session: Spondyloarthritis. IRACON 2025, New Delhi, India
   Main Audience: Knowledge User
   Invited?: Yes
4. (2025). The time to talk about neutrophils in spondyloarthritis. International Genetics of Axial Spondyloarthritis (IGAS), Rome, Italy
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
5. (2025). Axial PsA: what is new. GRAPPA Workshop, New Delhi, India
   Main Audience: Knowledge User
   Invited?: Yes
6. (2025). Recent updates on psoriatic arthritis management. GRAPPA Workshop, New Delhi, India
   Main Audience: Knowledge User
   Invited?: Yes
7. (2024). Year in Review, Spondyloarthritis. Indian Rheumatology Association Online Program. New Delhi, India, India
   Main Audience: Knowledge User
   Invited?: Yes, Keynote?: Yes
8. (2024). Mentorship. North American Young Rheumatology Investigator Forum (NYRIF), United States of America
   Main Audience: Knowledge User
   Invited?: Yes, Keynote?: No
9. (2024). Advances in Spondyloarthritis. Rheumatology Grand Rounds, UT Health, Houston, USA, United States of America
   Main Audience: Knowledge User
   Invited?: Yes, Keynote?: Yes
10. (2024). Neutrophils in spondyloarthritis. AROUND AND BEYOND THE JOINT 3rd edition, Rome, Italy., Italy
    Main Audience: Knowledge User
    Invited?: Yes, Keynote?: No

11. (2024). Chair's Address, Co-Chair. International Spondyloarthritis Congress, Gent, Belgium, Belgium
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

12. (2024). Advances in management of axial spondyloarthritis. Congress of Clinical Rheumatology, Destin, Florida, USA, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

13. (2023). Targeting Macrophage Migration Inhibitory Factor in axial spondyloarthritis. International Genetics of AS, Naples, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

14. (2022). Ankylosing Spondylitis: How Do Current & New Novel Therapeutic Targets Affect Radiographic Progression?. Congress of Clinical Rheumatology, Destin, Florida, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

15. (2022). MIF-neutrophil-bone axis in AS pathogenesis. International Congress on Spondyloarthritis, Ghent, Belgium
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

16. (2022). Early diagnosis of axial spondyloarthritis. Association of Kerala Medical Graduates 43rd Annual Convention, Toronto, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

17. (2022). Approach to diagnosing axial SpA. Memorial University Rounds, St Johns, Newfoundland, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

18. Rahman P, Garrido-Cumbrera M, Rohekar S, Mallinson M, Major G, Jovaisas, A, Haroon N, et al. (2020). Are Work-related Issues Related to Higher Burden of Disease in Canadian axSpA Patients? Results From the IMAS Survey. Canadian Rheumatology Association, VICTORIA, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

19. Ajrawat P, Touma Z, Martinez J, Sari I, Taheri C, Haroon N. (2020). The Effect of TNF-Inhibitor Therapy on Structural Progression in Ankylosing Spondylitis Patients: A Systematic Review and Meta-Analysis.Canadian Rheumatology Association, Online, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

20. (2020). How does spinal fusion happen in AS? Is this amenable to modification?. Pan American League of Association for Rheumtaology (PANLAR) Congress 2020, Miami, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

21. (2020). Factors Associated with Use of Biological Therapies for Axial Spondyloarthritis in Canada. Results from the IMAS survey.Annual European Conference of Rheumatology, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

22. (2020). Certolizumab Pegol Improves Work and Household Productivity and Social Participation over 1 Year of Treatment in Patients with Non-Radiographic Axial Spondyloarthritis.American College of Rheumatology, United States of America
Main Audience: Knowledge User
Invited?: No, Keynote?: No

23. (2020). How divergent thinking lead to a Novel discovery on Ankylosing Spondylitis.15th Grand Alumini Convention: Trivandrum Medical College, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

24. (2020). Recent Advances in AxSPA. Emirates Rheumatology Academy, Dubai, United Arab Emirates
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

25. (2020). Axial Spondyloarthritis: Knowledge, Screening and Referral Practices Amongst Primary Care Providers.Canadian Rheumatology Association, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

26. (2020). Comparison between Patients with Spondyloarthritis Managed in Community Based Care Settings tothose Managed in Tertiary Research Setting in Ontario: An OBRI-SPARCC Study. Canadian Rheumatology Association, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

27. (2020). Certolizumab Pegol-Treated Patients with Non-Radiographic Axial Spondyloarthritis Demonstrate Improvements in Sleep Quality and Other Patient Reported Outcomes.American College of Rheumatology, United States of America
Main Audience: Knowledge User
Invited?: No, Keynote?: No

28. (2020). Characterizing the Impact of Axial Spondyloarthritis on Daily Life: Gender and Patient-reported Outcomes associated with Functional Limitation in Canada. Results from the IMAS survey.Annual European Congress of Rheumatology, VIRTUAL, Belgium
Main Audience: Knowledge User
Invited?: No, Keynote?: No

29. (2020). Immunopathology and Cytokine Storm in Covid19. Qatar Rheumatology Webcast, Qatar
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

30. (2019). Bridging the Gap between Symptom Onset and Diagnosis in Axial Spondyloarthritis.Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

31. (2019). Biologic Therapy in SpA. 20th Singapore - Malaysia Society of Rheumatology, Singapore, Malaysia
Main Audience: Researcher
Invited?: Yes, Keynote?: No

32. (2019). Window of Opportunity in Axial Spondyloarthritis. Spondyloarthritis 2019 / Izmir, Turkey., Izmir, Turkey
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

33. (2019). Earlier Treatment of Non-Radiographic axial Spondyloarthritis with Certolizumab Pegol results in Improved Clinical Outcomes.American College of Rheumatology, Atlanta, United States of America
Main Audience: Knowledge User
Invited?: No, Keynote?: No

34. (2019). Early Diagnosis of AS. 20th Singapore - Malaysia Society of Rheumatology,, Singapore, Malaysia
Main Audience: Researcher
Invited?: Yes, Keynote?: No

35. (2019). T Cell Activation and Application in Therapeutics. Canadian Rheumatology Association Annual Meeting, Montreal, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

36. (2019). Anti IL17 therapy in axial SpA. Monsoon Rheumatology Summit, Cochin, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

37. (2019). Pathogenesis of Ankylosing Spondylitis; Beyond Genetics. Spondyloarthritis, Izmir, Turkey
Main Audience: Researcher
Invited?: Yes, Keynote?: No

38. (2019). Spondyloarthritis. State of the art: Treatment of axial spondyloarthritis.Korean College of Rheumatology Annual Meeting, Seoul, Korea, North
Main Audience: Researcher
Invited?: Yes, Keynote?: No

39. (2019). Factors Predictive of Radiographic Progression in Ankylosing Spondylitis.Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

40. (2019). Progression to Radiographic Sacroiliitis in Patients with Non-diagnostic Sacroiliac Joints: Results from a Longitudinal Observational Cohort of AxSpA Patients. Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

41. (2019). In search of a new therapeutic target for AS: trusting your gut.McMaster/Western University Rheumatology Research Day, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

42. Kuriya B, Tia V, Luo J, Vigod S, Widdifield J, Haroon N. (2019). The Risk of Acute Mental Illness Service Use in Rheumatoid Arthritis and Ankylosing Spondylitis: A Population-Based Cohort Study. Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

43. (2019). Additional Outcomes from the First 52-Week Randomized Placebo-Controlled Study(NCT02552212) in Patients with Non-Radiographic Axial Spondyloarthritis Treated with Certolizumab Pegol.Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

44. (2019). Creation of an Immunology Series Video Library in Facilitating Basic Immunology Knowledge Acquisition and Retention Amongst Adult Rheumatology Trainees.Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

45. (2019). Longitudinal Outcomes and Predictors of E-Learning Effectiveness in Patients with Axial Spondyloarthritis: A Randomized Controlled Trial.Canadian Rheumatology Association, Montreal, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

46. (2019). Is disease modification possible in AS?. IV International Italian Meeting on Ankylosing Spondylitis, Naples, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

47. (2019). Clinical Approach to SpA.Spondyloarthritis Research and Treatment Network, Annual Meeting, Boston, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

48. (2019). Meet the Professor: Axial Spondyloarthritis. American College of Rheumatology, Annual Meeting, Atlanta, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

49. (2019). Clinical cases in SpA. ASAS/SPARTAN/GRAPPA symposium, atlanta, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

50. (2019). Pathogenic basis of bone formation and disease modification in AS. Lecture: Hanyang University, Seoul, Korea, North
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

51. (2019). The role of SEC16A in the pathogenesis of AS. International Genetics of Ankylosing Spondylitis Meeting, Versailles, France
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

52. (2018). Axial Spondyloarthritis: New Insights from the Lab. SPARCC Scientific Day, Toronto, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

53. (2018). Pathogenesis of Axial SpA: Current Concepts. Monsoon Summit. Indian Rheumatology Association, Cochin, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

54. (2018). From NSAIDs to Biologic DMARDs: what is new in SpA. Annual Bahrain Rheumatology Conference, Bahrain, Bahrain
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

55. (2018). Immunology for clinicians. Academic Half Day for Rheumatology Residents. University of British Columbia, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
Description / Contribution Value: Teaching for Rheumatology fellows at the University of British Columbia

56. Marina Magrey, Walter P. Maksymowych. (2018). Biomarkers in Ankylosing Spondylitis. Spondyloarthritis Research and Treatment Network Annual Meeting, Cambridge, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
Description / Contribution Value: Workshop

57. (2018). Non-radiographic axial SpA: The concept, disease burden and principles of treatment. 6th World Congress on Controversies, Debates & Consensus in Bone, Muscle & Joint Diseases (BMJD), Bangkok, Thailand
Main Audience: Researcher
Invited?: Yes, Keynote?: No

58. (2018). Role of conventional Xray in axial SpA: how relevant is it ?. Monsoon Summit. Indian Rheumatology Association, Cochin, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

59. (2017). Cardiovascular risk and co-morbidities in axial spondyloarthritis. SPARTAN-GRAPPA-ASAS Educational Symposium on Axial Spondyloarthritis (axSpA) and Psoriatic Arthritis (PsA), San Diego, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

60. (2017). Biomarkers in AS: Predictors of Progression. SpA Research Workshop. University of Calgary., Calgary, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

61. (2017). Recent advances in pathogenesis of Ankylosing Spondylitis. 2017 BRIESE: BC Rheumatology Invitational Education Series, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

62. (2017). Disease modification in AS. BC Rheumatology Invitational Education Series: BRIESE 2017, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

63. (2017). Novel SPARCC discovery from a family study: Functional Genomics and AS. SPARCC Scientific Meeting, Calgary, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

64. (2017). Pathogenesis of Spondyloarthritis. Spondyloarthritis Forum, King Khalid University, Riyadh, Saudi Arabia
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

65. (2017). Changing paradigm of inflammation and new bone formation in AS. RHEUMATOLOGY ROUNDS: Western University, London, Ontario, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

66. (2017). Biomarkers in AS: Predictors of Progression. University of Calgary: Precision Medicine Approach to Immune-Mediated Inflammatory Diseases, Calgary, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

67. (2017). Role of MIF in Ankylosing Spondylitis pathogenesis. International Genetics of Ankylosing Spondylitis 2017, Palermo, Sicily, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

68. (2017). Novel SPARCC discovery from a family study: Functional Genomics and AS. Spondyloarthritis Research Consortium of Canada Annual Scientific Meeting, Calgary, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

69. (2017). Non-Radiographic Axial Spondyloarthritis: Clinical and Therapeutic Advances. Spondylitis Forum, King Khalid University, Riyadh, Saudi Arabia
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

70. (2017). Recent advances in management of psoriatic arthritis. Association des medecins rhumatologues du Quebec: AMRQ 2017, Estereel, Quebec, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

71. (2017). Biomarkers in AS: Predictors of Progression. University of Calgary Spondyloarthritis Research Workshop, Calgary, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

72. (2017). Immunology 101. Canadian Rheumatology Association Residents Course, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

73. (2017). Spondyloarthritis Assessment. Canadian Rheumatology Association Residents' Course, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

74. (2017). Radiography in early Spondyloarthritis. Indian Rheumatology Association Conference, Lucknow, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

75. (2017). Can We Halt Radiographic Progression in AS?. Canada-Mexico Symposium in AS, Guadalajara, Mexico
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

76. (2016). Inflammation, New bone formation and Disease Modification in Ankylosing Spondylitis. Medical grand rounds Queen's University, Kingston, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

77. (2016). Tomorrow's Treatment of Spondyloarthritis. Ontario Rheumatology Association Annual Conference, Muskoka, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

78. (2016). Inflammatory Back Pain. Inter-professional Approach to Back Pain Assessment and Rehabilitation, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

79. (2016). Recent advances in immunopathogenesis of Ankylosing spondylitis and implications on treatment in the next decade.Université de Montréal, Hôpital Notre-Dame du CHUM. Grand Rounds, Montreal, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

80. (2016). Recent advances in immunopathogenesis of Ankylosing spondylitis and implications on treatment in the next decade.Rounds, Centre Hospitalier de l’Université de Montréal, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

81. (2016). Radiology in Axial Spondyloarthritis. Dokuz Eylül University. National Consensus Meeting on Imaging in SpA, Izmir, Turkey
Main Audience: Researcher
Invited?: Yes, Keynote?: No

82. (2016). Advances in Pathogenesis of AS. Turkish Rheumatology Association, Izmir, Turkey
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

83. (2016). Tales from translational studies in Ankylosing Spondylitis. Spondyloarthritis Research Consortium of Canada Annual Meeting, Toronto, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

84. Nigil Haroon Xenofon Baraliakos (Germany) Anne Grethe Jurik (Denmark). (2015). Interpretation of X-rays for assessment of back pain.Imaging Workshop in AS: Training Turkish Rheumatologists in X-ray, CT and MRI interpretation for standardizing assessment in AS., Turkey
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

85. (2015). Radiographic progression in AS: From Molecules to Modification.International Spondyloarthritis Meeting, Palermo, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

86. (2015). Recent advances in pathogenesis and management of axial spondyloarthritis. Grand Rounds, Division of Rheumatology. Western University, London, Ontario., Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

87. (2015). Antigen presentation, MHC-TCR interaction.Immunology Workshop for Clinicians. Asia Pacific League Against Rheumatism (APLAR)., Chennai, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

88. (2015). Autophagy in Ankylosing Spondylitis.Spondyloarthritis Research and Training Network (SPARTAN), Denver, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

89. (2015). Disease Modification in Ankylosing Spondylitis.Asia Pacific League Against Rheumatism (APLAR)., Chennai, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

90. (2015). Biologic Response Modifiers: Mechanism of action. Immunology Workshop for Clinicians. Asia Pacific League Against Rheumatism (APLAR)., India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

91. Vinod Chandran. (2014). Making Sense of Spondyloarthritis. Canadian Rheumatology Association 2014, Whistler, Whistler, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

92. (2014). Recent Advances in the Pathogenesis and Treatment of Axial Spondyloarthritis. University of Manitoba Arthritis Centre Rounds, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

93. (2014). Update on Ankylosing Spondylitis. Ontario Rheumatology Association, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

94. (2014). ERAP1 Variants Associated with Ankylosing Spondylitis Alter the Unfolded Protein Response in Cells Expressing HLA-B27. Canadian Rheumatology Association 2014, Whistler, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No

95. (2014). Osteoproliferation in AS and PsA: Challenges and Advances.Spondyloarthritis Research and Training Network (SPARTAN) and Group for Research and Assessment of Psoriasis and Psoriatic Arthritis (GRAPPA) combined meeting, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

96. (2013). Advances in pathogenesis and treatment of ankylosing spondylitis.All Kerala Medical Graduates Convention CME, Houston, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

97. (2013). Pathogenesis and Management of Ankylosing Spondylitis. Sanjay Gandhi Postgraduate Institute of Medical Sciences, 25th Anniversary CME, Lucknow, India
Main Audience: Researcher
Invited?: Yes, Keynote?: No

98. (2013). Recent Advances in Spondyloarthritis.Trivandrum Orthopedic Club - Kerala Orthopedic Society., Trivandrum, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

99. (2013). Recent advances in pathogenesis and treatment of ankylosing spondylitis. Rheumatology Grand Rounds, McMaster University, Hamilton, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

100. (2013). What is coming after TNFi in axial SpA? NSAIDs again or new drugs?. European League Against Rheumatism, Madrid, Spain
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

101. (2013). Treatment of non-radiographic axial spondyloarthritis. Indian Rheumatology Association Annual Scientific Meeting, Calcutte, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

102. (2013). Radiographic progression in ankylosing spondylitis. Taiwan Rheumatology Association Symposium, Taichung, Taiwan
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

103. (2013). Can we prevent osteoproliferation in AS.Spondyloarthritis Research and Treatment Network 2013, San Francisco, United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

104. (2013). Recent advances in pathogenesis and treatment of axial spondyloarthritis (Ranked Best Rounds of the Year). Rheumatology Grand Rounds, University of Western, London, Ontario, London, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

105. (2012). Advances in pathogenesis and treatment of ankylosing spondylitis.Indian Rheumatology Association. Annual Scientific Meeting, Ahmedabad, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

106. (2012). Pathogenesis and Management of Axial Spondyloarthritis.Indian Institute of Spinal Injuries CME, New Delhi, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

107. (2012). Advances in the pathogenesis of ankylosing spondylitis. Amrita Institute of Medical Sciences Workshop, Cochin, India
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

Broadcast Interviews

2018/07/23 - 2018/07/23	Identifying Axial Spondyloarthritis among low back pain patients, Doctor Live, Asianet News
2013/08/01 - 2013/08/01	The differential diagnosis of back pain, National Rural Health Mission (NRHM) Radio, NRHM Radio and All India Radio (AIR)
2013/07/28 - 2013/07/28	General approach to diagonsing common rheumatic diseases, Better Life, Kairali Television
2012/12/30 - 2012/12/30	How can we identify rheumatoid arthritis?, Better Life, Kairali TV
2012/12/23 - 2012/12/23	Early recognition and treatment of spondyloarthritis, Better Life, Kairali TV

Text Interviews

2018/09/01	Ankylosing Spondylitis, Lismi Anthony, Manorama Arogyam Magazine Description / Contribution Value: Patient information on early diagnosis and treatment of AS.
2013/11/20	Disease modification in AS, Featured our study in the globe and mail

Publications

Journal Articles

1. Haroon N, Baskurt Z, Chim T, Inman RD, Kumke T, Tham R, Kim M, van der Horst-Bruinsma I, Gensler LS. (2026). Certolizumab Pegol Reduced Anterior Uveitis Flares Compared With Standard Non-Biologic Treatment: Results From an Overlap Weighting Analysis in High-Risk Patients With Axial Spondyloarthritis.Int J Rheum Dis.29(4): e70621..
Published,
Refereed?: Yes

2. Sari I, Lee S, Johnson SR, Inman RD, Haroon N. (2026). Segmental spinal damage predicts mobility restriction and functional decline in radiographic axial spondyloarthritis: a longitudinal study.Rheumatology (Oxford).Epub(ahead): of print.
Published,
Refereed?: Yes

3. Richard N, Pardo Pardo J, Mirza R, Aydin SZ, Bessette L, Mosher D, Boyd T, Chan J, Eder L, Passalent L, Karam E, Nair B, Hazlewood GS, Tse SML, Rumsey DG, Zummer M, Haroon N, Inman R, Gladman DD, Rohekar S. (2026). Canadian Rheumatology Association/Spondyloarthritis Research Consortium of Canada Living Treatment Recommendations for the Management of Axial Spondyloarthritis: Update #1. J Rheumatol.Epub(ahead): of print.
Published,
Refereed?: Yes

4. Gendron E, Maguire S, Anderson M, Johnson SR, Inman RD, Haroon N. (2025). The effect of alcohol consumption on clinical outcomes and structural damage in patients with axial spondyloarthritis: A systematic literature review and meta-analysis.Joint Bone Spine.92(1): 105794.
Published,
Refereed?: Yes

5. Hurtubise R, Rohekar S, Haroon N, Baskurt Z, Chim T, Zummer M, Inman RD, Richard N. (2025). SpondyloArthritis Research Consortium of Canada (SPARCC). Impact of disease manifestations on first biologic drug survival in axial spondyloarthritis: a real-life Canadian study.Rheumatol Adv Pract.9(1): rkaf004.
Published,
Refereed?: Yes

6. Remalante-Rayco P, Baja ES, Baskurt Z, Chim T, Panelo CIA, Osio-Salido E, Inman RD, Dans LF, Haroon N. (2025). Impact of clinical subtype and sex on first-line biologic therapy discontinuation in axial spondyloarthritis. Ann Rheum Dis.84: Epub.
Published,
Refereed?: Yes

7. Brown M, Li Z, Wu X, Harvey N, Garrido-Mesa J, Wang X, Xu Z, Wang G, Marzo-Ortega H, McGonagle D, Morgan A, Akkoc N, Artin GK, Macfarlane G, Jones G, Bradbury L, Leo P, Zimmerman K, Duncan E, Brown J, Merriman T, Stebbings S, Mahmoudi M, Jamshidi A, Farhadi E, Haroon N, Inman R, Breban M, Lianne G, Ward M, Wordsworth B, Weisman M, Evans D, Kenna T, Kim TH, Reveille J, Xu H. (2025). Multi-omic insights from a multi-ancestry genome-wide meta-analysis of ankylosing spondylitis reveal novel pathways of disease susceptibility.Res Sq [Preprint]. pre: print. ,

8. Remalante-Rayco P, Daghistani Y, Chim T, Baskurt Z, Keshavarzi S, Passalent L, Poddubnyy D, Inman RD, Haroon N. (2025). Inflammatory bowel disease does not confer higher disease activity or greater radiographic progression in axial spondyloarthritis.Rheumatology (Oxford). 64(12): 6302-6308. http://dx.doi.org/10.1093/rheumatology/keaf420.
Published,
Refereed?: Yes

9. Pacheco A, Maguire S, Qaiyum Z, Tang M, Bridger A, Lim M, Tavasolian F, Yau E, Crome SQ, Haroon N, Inman RD. (2025). Enhanced Type 1 Interferon Signature in Axial Spondyloarthritis Patients Unresponsive to Secukinumab Treatment.Arthritis Rheumatol.77(1): 34-46.
Published,
Refereed?: Yes

10. Rohekar S, Pardo JP, Mirza R, Aydin SZ, Bessette L, Richard N, Mosher D, Boyd T, Chan J, Eder L, Passalent L, Karam E, Nair B, Hazlewood GS, Tse S, Rumsey D, Zummer M, Haroon N, Inman R, Gladman DD. (2025). Canadian Rheumatology Association/Spondyloarthritis Research Consortium of Canada Living Treatment Recommendations for the Management of Axial Spondyloarthritis.J Rheumatol.52(1): 10-22.
Published,
Refereed?: Yes

11. Brown MA, Rudwaleit M, van Gaalen FA, Haroon N, Gensler LS, Fleurinck C, Marten A, Massow U, de Peyrecave N, Vaux T, White K, Deodhar A, van der Horst-Bruinsma I. (2024). Low uveitis rates in patients with axial spondyloarthritis treated with bimekizumab: pooled results from phase 2b/3 trials.Ann Rheum Dis.83(12): 1722-1730.
Published,
Refereed?: Yes

12. Srinath A, Nakamura A, Haroon N. (2024). Sequence of Events in the Pathogenesis of Axial Spondyloarthritis: A Current Review-2023 SPARTAN Meeting Proceedings.Curr Rheumatol Rep.2024: Epub ahead of print.
Published,
Refereed?: Yes, Open Access?: No

13. Rahman P, Garrido-Cumbrera M, Rohekar S, Mallinson MG, Karam E, Jovaisas AV, Haroon N, Beach J, de Brum-Fernandes AJ, Cohen M, Chan J, Correa-Fernández J, Leclerc P, Inman RD. 2024 Dec;22(4):e70010. PMID: 39658831; PMCID: PMC11632139. (2024). Canadian Patients With Axial Spondyloarthritis Require Almost a Decade To Be Diagnosed, Leading to Severe Functional Limitation. Results From the International Map of Axial Spondyloarthritis (IMAS).Musculoskeletal Care.22(4): e70010..
Published,
Refereed?: Yes

14. Colbert RA, Carroll E, Dubreuil M, Gensler LS, Haroon N, Howard R, Ogdie AR, Shafer C, Weiss PF, Kuhn KA. (2024). Prologue: Spondyloarthritis Unmet Research Needs Conference IV.J Rheumatol.51(12): 1226-1228.
Published,
Refereed?: Yes

15. Nakamura A. Jo S, Nakamura S, Aparnathi M, Foroozan S, Korshko M, Park YS, Gupta H, Vijayan S, Rockel JS, Kapoor M, Jurisica I, Kim TH, Haroon N. (2024). HIF-1 alpha and MIF enhances neutrophil-driven type 3 immunity and chondrogenesis in murine spondyloarthritis.Cell Mol Immun.21(7): 770-786.
Published,
Refereed?: Yes

16. D'Agostino MA, Haroon N, Elewaut D, Van den Bosch F. (2024). Fourteenth International Congress on Spondyloarthritides. Clin Exp Rheumatol.42(9): 1889-1997.
Published,
Refereed?: Yes

17. Cheung MW, Dayam RM, Shapiro JR, Law JC, Chao GYC, Pereira D, Goetgebuer RL, Croitoru D, Stempak JM, Acheampong L, Rizwan S, Lee JD, Jacob L, Ganatra D, Law R, Rodriguez-Castellanos VE, Kern-Smith M, Delgado-Brand M, Mailhot G, Haroon N, Inman RD, Piguet V, Chandran V, Silverberg MS, Watts TH, Gingras AC. (2023). Third and Fourth Vaccine Doses Broaden and Prolong Immunity to SARS-CoV-2 in Adult Patients with Immune-Mediated Inflammatory Diseases.J Immunol. 211(3): 351-364.
Published,
Refereed?: Yes, Open Access?: No

18. Otobo TM , Tolend M , Meyers AB , Sudol-Szopinska I , Joshi S , Stimec J , Herregods N , Jaremko JL , Tse SML , Haroon N , Moineddin R , Tzaribachev N , Appenzeller S , Znajdek M , Perez M , Ligha AE , Jans L , Inarejos Clemente EJ , Weiss P , Papakonstantinou O , Kirkhus E , van Rossum MAJ , Rumsey DG , Carrino J , Akikusa JD , Conaghan PG , Doria AS. (2023). Determination of Relative Weightings for Sacroiliac Joint Pathologies in the OMERACT Juvenile Arthritis Magnetic Resonance Imaging Sacroiliac Joint Score.Journal of clinical medicine. 12(7): 2729.
Published,
Refereed?: Yes

19. Remalante-Rayco P, Espiritu AI, Daghistani Y, Chim T, Atenafu E, Keshavarzi S, Jha M, Gladman DD, Oh J, Haroon N, Inman RD. (2023). Incidence and predictors of demyelinating disease in spondyloarthritis: data from a longitudinal cohort study.Rheumatology (Oxford). Epub: ahead of print.
Published,
Refereed?: Yes, Open Access?: No

20. Ramiro S, Haroon N. (2023). Advances in axial spondyloarthritis: Learning from the leaders.Best Pract Res Clin Rheumatol.37(3): 101877.
Published,
Refereed?: Yes, Open Access?: No

21. Navarro-Compan V, Boel A, Boonen A, Mease PJ, Dougados M, Kiltz U, Landewe RBM, Baraliakos X, Bautista-Molano W, Chiowchanwisawakit P, Dagfinrud H, Fallon L, Garrido-Cumbrera M, Gensler L, ElZorkany BK, Haroon N, Kwan YH, Machado PM, Maksymowych W, Molto A, de Peyrecave N, Poddubnyy D, Protopopov M, Ramiro S, Song IH, van Weely S, van der Heijde D. (2023). Instrument selection for the ASAS core outcome set for axial spondyloarthritis.Ann Rheum Dis.82(6): 763-772.
Published,
Refereed?: Yes

22. Mauro D , Srinath A , Guggino G , Nicolaidou V , Raimondo S , Ellis JJ , Whyte J , Nicoletti MM , Romano M , Kenna TJ , Cañete JD , Alessandro R , Rizzo A , Brown MA , Horwood NJ , Haroon N , Ciccia F. (2023). Prostaglandin E2/EP4 axis is upregulated in Spondyloarthritis and contributes to radiographic progression.Clinical immunology (Orlando, Fla.). 251: 109332.
Published,
Refereed?: Yes

23. Machado PM, Schäfer M, Mahil SK, Liew J, Gossec L, Dand N, Pfeil A, Strangfeld A, Regierer AC, Fautrel B, Alonso CG, Saad CGS, Griffiths CEM, Lomater C, Miceli-Richard C, Wendling D, Alpizar Rodriguez D, Wiek D, Mateus EF, Sirotich E, Soriano ER, Ribeiro FM, Omura F, Rajão Martins F, Santos H, Dau J, Barker JN, Hausmann J, Hyrich KL, Gensler L, Silva L, Jacobsohn L, Carmona L, Pinheiro MM, Zelaya MD, Severina MLÁ, Yates M, Dubreuil M, Gore-Massy M, Romeo N, Haroon N, Sufka P, Grainger R, Hasseli R, Lawson-Tovey S, Bhana S, Pham T, Olofsson T, Bautista-Molano W, Wallace ZS, Yiu ZZN, Yazdany J, Robinson PC, Smith CH. (2023). Characteristics associated with poor COVID-19 outcomes in people with psoriasis, psoriatic arthritis and axial spondyloarthritis: data from the COVID-19 PsoProtect and Global Rheumatology Alliance physician-reported registries.Ann Rheum Dis. 2023 Feb 14:ard-2022-223499.Epub: ahead of print.
Published,
Refereed?: Yes

24. Eder L, Croxford R, Drucker AM, Mendel A, Kuriya B, Touma Z, Johnson SR, Cook R, Bernatsky S, Haroon N, Widdifield J. (2023). Understanding COVID-19 Risk in Patients with Immune Mediated Inflammatory Diseases: A Population-based analysis of SARS-CoV-2 Testing. Arthritis Care Res (Hoboken). 75(2): 317-325.
http://dx.doi.org/10.1002/acr.24781.
Published,
Refereed?: Yes

25. Haroon N, Inman RD. (2023). ERAP1 and the return of the UPR in ankylosing spondylitis.Nat Rev Rheumatol. 19: 134-135.
Published,
Refereed?: Yes

26. Inman RD, Garrido-Cumbrera M, Chan J, Cohen M, de Brum-Fernandes AJ, Gerhart W, Haroon N, Jovaisas AV, Major G, Mallinson MG, Rohekar S, Leclerc P, Rahman P. (2023). Work-related Issues, Physical and Psychological Burden in Canadian Axial Spondyloarthritis Patients. Results From the International Map of Axial Spondyloarthritis.J Rheumatol.50(5): 625-633.
Co-Author
Published,
Refereed?: Yes

27. van der Heijde D, Deodhar A, Baraliakos X, Brown MA, Dobashi H, Dougados M, Elewaut D, Ellis AM, Fleurinck C, Gaffney K, Gensler LS, Haroon N, Magrey M, Maksymowych WP, Marten A, Massow U, Oortgiesen M, Poddubnyy D, Rudwaleit M, Shepherd-Smith J, Tomita T, Van den Bosch F, Vaux T, Xu H. (2023). Efficacy and safety of bimekizumab in axial spondyloarthritis: results of two parallel phase 3 randomised controlled trials.Ann Rheum Dis.Epub: ahead of print.
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28. Cheung MW , Dayam RM , Shapiro JR , Law JC , Chao GYC , Pereira D , Goetgebuer RL , Croitoru D , Stempak JM , Acheampong L , Rizwan S , Lee JD , Jacob L , Ganatra D , Law R , Rodriguez-Castellanos VE , Kern-Smith M , Delgado-Brand M , Mailhot G , Haroon N , Inman RD , Piguet V , Chandran V , Silverberg MS , Watts TH , Gingras AC. (2023). Third and Fourth Vaccine Doses Broaden and Prolong Immunity to SARS-CoV-2 in Adult Patients with Immune-Mediated Inflammatory Diseases.Journal of immunology (Baltimore, Md. : 1950). 211(3): 351-364.
Published,
Refereed?: Yes

29. Fitzgerald GE, Maguire S, Lopez-Medina C, Dougados M, O'Shea FD, Haroon N. (2022). Tender to touch-Prevalence and impact of concomitant fibromyalgia and enthesitis in spondyloarthritis: An ancillary analysis of the ASAS PerSpA study.Joint Bone Spine.89(6): 105420.
Published,
Refereed?: Yes

30. Robinson PC, Machado PM, Haroon N, Gensler LS, Reveille JD, Taieb V, Vaux T, Fleurinck C, Oortgiesen M, de Peyrecave N, Deodhar A. (2022). Minimal Impact of the COVID-19 Pandemic on Disease Activity and Health-Related Quality of Life in Patients With Ankylosing Spondylitis Receiving Bimekizumab: Exploratory Analyses From a Phase 2b Open-Label Extension Study.ACR Open Rheumatol.Epub: ahead of print.
Published,
Refereed?: Yes

31. Mauro D, Nakamura A, Haroon N, Ciccia F. (2022). The gut-enthesis axis and the pathogenesis of Spondyloarthritis.Semin Immunol.Epub: ahead of print.
Published,
Refereed?: Yes

32. Passalent L, Inman RD, Haroon N. (2022). Nonspecific Low Back Pain.N Engl J Med.387(5): 478-9.
Published,
Refereed?: Yes

33. Eder L, Croxford R, Drucker AM, Mendel A, Kuriya B, Touma Z, Johnson SR, Cook R, Bernatsky S, Haroon N, Widdifield J. (2022). COVID-19 Hospitalizations, Intensive Care Unit Stays, Ventilation, and Death Among Patients With Immune-mediated Inflammatory Diseases Compared to Controls.J Rheumatol.Epub: ahead of print.
Published,
Refereed?: Yes

34. Passalent L, Cyr A, Jurisica I, Mathur S, Inman RD, Haroon N. (2022). Motivators, Barriers, and Opportunity for E-Health to Encourage Physical Activity in Axial Spondyloarthritis: A Qualitative Descriptive Study.Arthritis Care Res (Hoboken). 74(1): 50-58.
Published,
Refereed?: Yes

35. Kwok TSH, Sutton M, Pereira D, Cook RJ, Chandran V, Haroon N, Inman RD, Gladman DD. (2022). Isolated axial disease in psoriatic arthritis and ankylosing spondylitis with psoriasis.Ann Rheum Dis.epub: ahead of print.
Published,
Refereed?: Yes, Open Access?: No

36. Dayam RM, Law JC, Goetgebuer RL, Chao GY, Abe KT, Sutton M, Finkelstein N,Stempak JM, Pereira D, Croitoru D, Acheampong L, Rizwan S, Rymaszewski K, Milgrom R, Ganatra D, Batista NV, Girard M, Lau I, Law R, Cheung MW, Rathod B, Kitaygorodsky J, Samson R, Hu Q, Hardy WR, Haroon N, Inman RD, Piguet V, Chandran V, Silverberg MS, Gingras AC, Watts TH. (2022). Accelerated waning of immunity to SARS-CoV-2 mRNA vaccines in patients with immune-mediated inflammatory diseases.JCI Insight.7(11): e159721.
Published,
Refereed?: Yes

37. Akihiro Nakamura, Faxing Zeng , Sayaka Nakamura, Kyle Reid, Eric Gracey, Melissa Lim, Lin Leng, Masaki Kusuda, Rohan Machhar, Shaghayegh F. Boroojeni , Brian Wu, Evgeny Rossomacha, Tae-Hwan Kim, Francesco Ciccia, Jason S. Rockel, Mohit Kapoor, Robert D. Inman, Igor Jurisica, Sarah Crome, Richard Bucala, Nigil Haroon. (2021). Macrophage migration inhibitory factor drives the immunopathology of type 3 immunity-mediated arthritis. Science Translational Medicine. 13(616): eabg1210.
Last Author
Published,
Refereed?: Yes

38. Otobo TM, Herregods N, Jaremko JL, Sudol-Szopinska I, Maksymowych WP, Meyers AB, Weiss P, Tse S, Paschke J, Moineddin R, Haroon N, Tzaribachev N, Appenzeller S, Papakonstantinou O, Kirkhus E, van Rossum MAJ, Carrino J, Conaghan PG, Tolend M, Stimec J, Jans L, Lambert RG, Rumsey D, Doria AS. (2021). Reliability of the Preliminary OMERACT Juvenile Idiopathic Arthritis MRI Score (OMERACT JAMRIS-SIJ).J Clin Med.10(19): 4564.
Co-Author
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Refereed?: Yes

39. Fitzgerald GE, Maguire S, Haroon N. (2021). COVID-19: What Do Rheumatologists Need to Know?. Curr Rheumatol Rep.23(1): 5.
http://dx.doi.org/10.1007/s11926-020-00971-y
Last Author
Published,
Refereed?: Yes
Number of Contributors: 3

40. Nakamura A, Haroon N. (2021). Recent Updates in the Immunopathology of Type 3 Immunity-Mediated Enthesitis.Curr Rheumatol Rep.23(5): 31.
Last Author
Published,
Refereed?: Yes
Number of Contributors: 2

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1. Co-Author and Guidelines Committee Member. 2018 Update of the American College of Rheumatology/ Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Non-radiographic Axial Spondyloarthritis. (2018).
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   Description of Contribution Role: Co-Author and Guidelines Committee Member. Member of the final voting panel.
   Description / Contribution Value: Member of the voting panel and author of final guidelines manuscript.
2. Member, Co-Author. Canadian Rheumatology Association Management Guidelines for Spondyloarthritis. (2015).
   Contributors: Rohekar S, Chan J, Tse SM, Haroon N, Chandran V, Bessette L, Mosher D, Flanagan C, Keen KJ, Adams K, Mallinson M, Thorne C, Rahman P, Gladman DD, Inman RD.
   Description / Contribution Value: Member of the Management Guidelines Committee
3. Contributing member. Literature Review Committee. Co-author.American College of Rheumatology Management Guidelines for Axial Spondylarthritis. (2014).
   Contributors: Ward, Deodhar, Akl, Lui, Ermann, Gensler, Smith, Borenstein, Hiratzka, Weiss, Inman, V Majithia, Haroon, Maksymowych, Joyce, Clark, Colbert, Mark Figgie, Hallegua, Prete, Rosenbaum, Stebulis, Yu,
   Description / Contribution Value: Member of the Treatment Guidelines Committee. ACR guidelines are used internationally for themanagement of SpA.
4. Chair. Wait Time Benchmarks for Rheumatic Diseases. (2014).
   Contributors: I chaired 5 separate teams of Canadian rheumatologists who developed guidelines for 5 rheumatic diseases.
   Description / Contribution Value: Chair of the Canadian Rheumatology Association Wait Timee Alliance committee that developed the benchmarks for ideal management of patients with ankylosing spondylitis, psoriatic arthritis, rheumatoid arthritis, systemic lupus erythematosus and juvenile arthritis.

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Intellectual Property

Patents

1. MIF as a novel therapeutic target in Spondyloarthritis. United States of America. No. 43 63/106,859. 2020/10/28.
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Inventors: HAROON, N NAKAMURA, A