Keynote Speaker

Nigil Haroon, MD, PhD, DM, FRCPC, FRCP, MBA

Clinician Scientist, University Health Network
Senior Scientist, Schroeder Arthritis Institute, Krembil Research Institute
Associate Professor of Medicine and Rheumatology, University of Toronto

Dr. Nigil Haroon is a world-renowned rheumatologist and clinical immunologist located in Toronto, Canada. He is a Clinician Scientist at the University Health Network, the largest research hospital in Canada with over 17,000 active staff members (ranked top 5 in the world). He is an associate professor of medicine and rheumatology at the University of Toronto and a senior scientist at the Krembil Research Institute.

He is qualified in Internal Medicine, Clinical Immunology and Rheumatology and has a PhD in Functional Genomics and Immunology. He completed an MBA in Health and Life Sciences from the prestigious Rotman school of business.

His area of research includes predicting radiographic progression, identifying novel therapeutic targets and understanding the immunology and genetic basis of ankylosing spondylitis. He is well funded and has over 100 high impact publications in this area. Dr Haroon is a Vanier Scholar and has won several awards, including the Jane Bruckel Award of the Spondylitis Association of America.
TARC Research Day Program

7:30-8:00am  **Breakfast**  
*Blueberry Hill Room & Atrium Center  
*Morning food refreshments available until 10:30am*

8:00-8:20am  **Welcome Remarks**  
*Sunflower room  
Dr. Beth Jonas, Division Chief, Rheumatology, Allergy & Immunology  
Dr. Richard F. Loeser Jr., Director, Thurston Arthritis Research Center*

8:20-9:20am  **Short Talks**  
*Sunflower Room  
Moderated by: Kelli Allen, PhD & Lara Longobardi, PhD*

*Underlined names indicate the speaker for each presentation*


8:35  **Astia Allenzara**, Carolina Alvarez, Amanda Nelson, Galen Foulke. **Frequency of Atherosclerotic Cardiovascular Disease Following a Diagnosis of Idiopathic Inflammatory Myopathy: Data from a Large National Registry.**

8:50  **Ankita Gupta**, Uma Nair, Connor Thonen-Fleck, Santosh K. Mishra, B. Duncan X. Lascelles. **Differential Contribution of GFRα3 in Naive and Osteoarthritis-Associated Pain States**

9:05  **Chris Y. Lane**, Lauren Mihalek, Kelli D. Allen, Beth L. Jonas, Patricia Katz, Louise M. Thoma. **Underserved by Rehabilitation: Characteristics among Adults with Rheumatoid Arthritis**

9:20-9:45am  **Poster Pitches – Session 1**  
*Sunflower Room  
(All posters listed here will be available for viewing in the following poster viewing session)*

#1  **Thuyvan Phan**, Steven Takacs, and **Rumey C. Ishizawar**. **Implementation of the Clinical Disease Activity Index to Optimize Treat-to-Target Management of Rheumatoid Arthritis at the University of North Carolina Hospitals Rheumatology Specialty Clinic.**

#2  **Philip Coryell**, Kenneth Pearce, Paul Brian Hardy, Susan Chubinskya, Richard Loeser. **A Novel Small Molecule Screening Assay Toward Osteoarthritis Drug Discovery.**

#3  **Ashley Buck**, Caroline Lisee, Elizabeth Bjornsen, Todd Schwartz, Jeffrey Spang, Jason Franz, Troy Blackburn, Brian Pietrosimone. **Preoperative and Early Postoperative Habitual Walking Speeds Predict 6 Month Knee Osteoarthritis-Related Symptoms Following Anterior Cruciate Ligament Reconstruction.**

#4  **Jacqueline Shine**, Michaela E Copp, Hannon Lydia Brown, Brian O’Callaghan Diekman. **The Assessment of the Effects of Allosteric Modulation of SIRT6 Enzymatic Activity by in vivo Drug Delivery on DNA Damage Response and Overall Burden of Cellular Senescence in a Mouse Model of Cartilage Aging.**

#5  **Eleanor Saunders**, Diana Zychowski, Emily Owens Pickle, Carolina Alvarez, J. Vorobiov, S. Choudhary, M. S. Nolan, Amanda Nelson, Scott P. Commins. **Alpha-gal Seropositivity Among Screened Cohorts in NC and SC.**
#6 Selima Siala, Nicolas Fiacco, Shruti Saxena Beem, Thad Benefield, Stephen DeCherney, Rumey Chang Ishizawar, Yueh Z. Lee. **Immune Checkpoint Inhibitor-Induced Hypophysitis: A Spectrum of MRI Changes.**


#8 Saira Z. Sheikh, Tessa Englund, Andrew Simkus, Nicole Wanty, Annie McNeill, Kristen Holtz, Tenesha Hood, Starla Blanks, Maria Allen, and Allen Anandarajah. **A Novel, Community-Engaged Approach to Encourage Diverse Patient Participation in Lupus Clinical Trials.**

#9 Christin Büttner, Caroline Lisee, Ashley Buck, Elizabeth Bjornsen, Jeffrey Spang, Troy Blackburn, Brian Pietrosimone. **Early Sagittal Knee Biomechanics Differ in Individuals with and Without Knee-Related Symptoms 12 Months Following Anterior Cruciate Ligament Reconstruction.**


#11 Helen Willcockson, Huseyin Ozkan, Miguel Echanove Gonzalez de Anleo, Jonathan E. Frank, Hong Yuan, Morika D. Williams, Philip S. Low, and Lara Longobardi. **Imaging Activated Macrophages Using a Folate Receptor-Targeted Near-Infrared Molecular Contrast Agent in Injured Knees.**

#12 Katherine Collins, Caroline Lisee, Elizabeth Bjornsen, Cortney Armitano-Lago, Ashley Buck, Christin Büttner, Troy Blackburn, Brian Pietrosimone. **Development of Dynamic and Sustained Limb Loading Profiles in the First 2 to 6 Months Following Anterior Cruciate Ligament Reconstruction.**


#14 Ashley Abbott and Abigail L Gilbert. **ANA Educational Stewardship.**


#16 Mayuran Ravindran, J. Andrew Bird, Corinne A. Keet, Yamini V. Virkud, Lauren Herlihy, Michael D. Kulis, A. Wesley Burks, Edwin H. Kim. **Effect of Pre-existing Atopic Disease on Pediatric Peanut Sublingual Immunotherapy (SLIT) Outcomes.**

#17 Yinghui Wang, Yugen Zhang, Soorya Vasan, LaKeya C. Hardy, Evelyn Campbell, Robert Li, Joseph F. Urban, Jr., Cathryn R. Nagler, Onyinye I. Iweala. **T-cell Specific Utx Deficiency Impairs Regulatory Immunity Associated with Intestinal Helminth Infection.**

10:45-11:00am **Break**
11:00am-12:00pm  **Keynote Presentation**
Sunflower Room

*Dr. Nigil Haroon*

**A 50-year Journey Beyond HLA-B27: Decoding the Next Frontier of Spondyloarthritis Pathogenesis**

12:00-1:00pm  **Lunch**
Trillium AB

1:10-1:40pm  **Poster Pitches – Session 2**
Sunflower Room

(All posters listed here will be available for viewing in the following poster viewing session)


#20  Alex Nilius 1, Derek Dewig 2, Christopher Johnston 3, Troy Blackburn. *Quadriceps Function and Morphology Contribute To Aberrant Downhill Gait Biomechanics In Individuals With ACL Reconstruction.*


*1:40-2:30pm  Poster Viewing – Session B*  
Willow Lounge


#23  Prarthana Jain, Rumey Ishizawar, Eli Tiller, John Doughton, Alfredo Rivadeneira. *Optimizing Rural Rheumatology Access: Collaborative Tele-Health Clinic Between University of North Carolina and Piedmont Health 1 Year Extension and Opportunities for Improvement.*


#26  Justin D. Dennis, Alex E. Nilius, Tom B. Birchmeier, Troy Blackburn. *Gait Biomechanics Influence on Vertical Ground Reaction Force Linear and Instantaneous Loading Rates.*


#31 Joel Robert Thompson. *The Role of Kinesiophobia on Ankylosing Spondylitis Disease Activity, Exercise Habits, and Quality of Life.*

#32 Connor Thonen-Fleck, Ankita Gupta, Uma Nair, Santosh K. Mishra, B. Duncan X. Lascelles. *Osteoarthritis Associated Pain and Limb Asymmetry is Dependent on GFRa3.*
