



The Second Annual HSS Research Day

May 9, 2024

Richard Menschel Conference Center

8:00 am – 8:40 am	Breakfast	12:10 pm – 1:10 pm	Keynote Speaker John Varga, MD Professor of Internal Medicine Chief, Division of Rheumatology University of Michigan “Scleroderma and Fibrosis: fresh insights informing future therapies”
8:40 am – 8:45 am	Welcome – Opening Remarks Lionel B. Ivashkiv, MD Chief Scientific Officer	1:10 pm – 1:20 pm	Break-attach posters of poster session 2
8:45 am – 8:50 am	Suzanne A. Maher, PhD Chief Research Officer	1:20 pm – 2:40 pm	Poster Session 2 & Lunch
8:50 am – 9:00 am	Sacha Lainovic, MBA Co-Chair, Research and Innovation Committee of the Board of Trustees	2:40 pm – 4:10 pm	Afternoon Session 2 7. Jackson Appelt, BA, Research Institute (Mentor: Laura Donlin, PhD, Autoimmune Rheumatic Diseases) Lost in translation: new RNA-centric insights into TGCT tumors 8. Samuel Beber, MSc, Pediatric Orthopedics (Mentor: Peter D. Fabricant, MD, MPH, Bone Health and Implant Integration) Strong association between growth hormone therapy and proximal tibial physeal avulsion fractures: a case-control study 9. Lingling Hu, PhD, Spine (Mentor: Sravisht Iyer, MD & Matthew B. Greenblatt, MD, PhD, Musculoskeletal Pain) Discovery of a Tendon/Ligament Stem Cell Causing Lumbar Spinal Stenosis 10. Isaiah Selkridge, BA, Hip and Knee Replacement (Mentor: Peter K. Sculco, MD, Inflammation and Arthritis) A High Rate of Falls and Traumatic Fracture occur after Extensor Mechanism Reconstruction: A Cohort Study including both Allograft and Synthetic Mesh Grafts 11. Emma Reznick, PhD, Biomechanics (Mentor: Carl Imhauser, PhD, Joint Preservation and Regeneration) Role of ACL slack on knee mechanics in young, female athletes: computational sensitivity analysis 12. Sarah Gottesman, BS, Rheumatology (Mentor: Lisa Mandl, MD, MPH, Inflammation and Arthritis) Feasibility and Acceptability of Geniculate Artery Embolization for the Treatment of Painful Knee 13. Gregory Paschal, MS, Spine (Mentor: Celeste Abjornson, PhD, Musculoskeletal Pain) Intravenous Acetaminophen Improves Patient Outcomes and Decreases Opioid Use in Lumbar Fusion Mentorship Talk (Moderators: TBD) Lionel B. Ivashkiv, MD Chief Scientific Officer “Advice to the Next Generation of Scientists”
9:00 am – 9:10 am	Bryan T. Kelly, MD, MBA President and CEO, Surgeon-in Chief Emeritus		
9:10am – 10:30 am	Morning Session 1 1. Morita Wataru, MD, DPhil, Research Institute (Mentor: Lionel B. Ivashkiv, MD, Inflammation and Arthritis) Dysregulated recruitment of macrophages in a murine model of anterior cruciate ligament reconstruction failure 2. Clarisse Zigan, MS, Biomechanics (Mentor: Fernando Quevedo Gonzalez, PhD, Joint Preservation and Regeneration) Medial Iliofemoral Ligament Strain and Orientation Following THA Implantation Correlate with its Contribution to Hip Stability 3. Emilie Lijesen, MS, Pediatric Orthopedics (Mentor: Daniel W. Green, MD, MS, FAAP, FACS, Musculoskeletal Pain) Abnormal Patellar Tracking and Patellofemoral Morphology is Associated with Patella Osteochondritis Dissecans in Pediatric Patients 4. Anastasia Oktarina, MD, Research Institute (Mentor: Mathias Bostrom, MD, Bone Health and Implant Integration) The Wingless/Integrated (WNT) Pathway Within Leptin-receptor Lineage Cells Plays a Pivotal Role in the Process of Peri-implant Bone Formation 5. Margaret Butler, BS, Rheumatology (Mentor: S. Louis Bridges, MD, PhD, Autoimmune Rheumatic Diseases) Changes in TCR/BCR Repertoires and Circulating Immune Cell Populations After CTLA4-Ig (abatacept) Treatment in Patients with Rheumatoid Arthritis 6. Philip Paschal, MS, Spine (Mentor: Frank P. Cammisa, MD, Bone Health and Implant Integration) The clinical survivorship of bacteria positive culture patients at time of index lumbar fusion surgery		
10:30 am – 10:40 am	Coffee Break- attach posters of poster session 1	4:10 pm – 4:30 pm	
10:40 am – 12:00 pm	Poster Session 1 & Coffee Break	4:30 pm – 6:00 pm	Closing Remarks, Award Ceremony, and Cocktail Hour Kyung-Hyun Park-Min, PhD Chair, The Second Annual HSS Research Day Committee
12:00 pm – 12:10 pm	Break-detach posters of poster session 1		