

Wednesday,  
March 29, 2023

**11:00 am to 1:00 pm | Virtual Poster Session**

**2:00 pm to 2:45 pm | Welcome and Introduction**

Merit Cudkowicz MD, MSc, Chair of the Executive Committee on Research (ECOR)

**2:45 pm to 3:10 pm | Howard M. Goodman Fellowship**

*Protective T cell Responses and Rational T cell-based Vaccines for Infectious Diseases*

Gaurav Gaiha, MD, PhD, Assistant Professor, Department of Medicine/Ragon Institute

**3:10 pm to 3:35 pm | Howard M. Goodman Fellowship**

*Deciphering the Immunologic and Antigenic Drivers of ICI-associated Myocarditis*

Chloe Alexandra-Chloé Villani, PhD, Assistant Professor, Department of Medicine/Center for Immunology and Inflammatory Diseases/Cancer Center

**3:35 pm to 3:45 pm | BREAK**

**3:45 pm to 4:10 pm | Martin Prize for Fundamental Research**

*Targeting TBK1 to Overcome Resistance to Cancer Immunotherapy*

Russell Jenkins, MD, PhD, Assistant Professor, Department of Medicine/Hematology-Oncology/Cancer Center

**4:10 pm to 4:35 pm | Martin Prize for Clinical Research**

*Distinct Cellular Dynamics Associated with Response to CAR-T Therapy for Refractory B Cell Lymphoma*

Marcela Maus, MD, PhD, Associate Professor, Department of Medicine/Cancer Center

**4:35 to 5:00 pm | Martin Prize for Population Health Sciences**

*Efficacy of Single-Dose Human Papillomavirus Vaccination among Young African Women*

Ruanne Barnabas, MBChB, MSc, DPhil, Professor, Department of Medicine/Chief, Infectious Diseases

Thursday,  
March 30, 2023

**8:35 am to 9:55 am – The Power of AI to Transform Healthcare**

### **Welcome and Introduction**

Merit Cudkowicz, MD, MSc, Chair of ECOR

### **Cancer Genomics and AI**

Gaddy Getz, PhD, Pathology, Director of Bioinformatics, Massachusetts General Hospital Cancer Center

### **Temporal Degradation of AI Algorithms in Medicine and Other Industries**

Oleg Pianykh, PhD, Director of Medical Analytics, Department of Radiology, Massachusetts General Hospital

### **Advancing Genomic Medicine through Global Collaboration**

Heidi Rehm, PhD, Director, Genomic Medicine Unit, Center for Genomic Medicine, Chief Genomics Officer, Department of Medicine, Massachusetts General Hospital

### **AI Activities at the MGB Data Science Office**

Keith J. Dreyer, DO, PhD, FACR, FSIIM,  
Chief Data Science Officer, Mass General Brigham

### **Q and A**

Moderator: Judy Hung, MD, Director, Division of Clinical Research

**9:55 am to 10:15 am | BREAK**



Thursday,  
March 30, 2023

**10:15 am to 12:00 pm | How Can AI Transform Health Care? Real World Examples**

### **Predicting Breast Cancer**

Constance Lehman, MD, PhD, Director of Breast Imaging Research Center, Massachusetts General Hospital

### **Conducting Target Trials in Electronic Health Records on Two Continents: Drug Repurposing for Neurodegenerative Disease**

Mark Albers, MD, PhD, Frank Wilkens Jr. and Family Endowed Scholar in Alzheimer's Disease Research, Mass General Institute of Neurodegenerative Disease

### **FDA Approved AI Algorithm for Diabetic Retinopathy Via Color Fundus Photographs**

Grayson Armstrong, MD, MPH, Director, Ophthalmology Emergency Service, Massachusetts Eye and Ear

### **AI Work in Collaboration with BWH Engineers Looking at Embryo and Gamete Selection for IVF**

Irene Dimitriadis, MD, Obstetrics, Gynecology, Massachusetts General Hospital, Medical Director, Third Party Reproduction

### **Predicting Lung Cancer Risk with AI**

Lecia V. Sequist, MD, MPH, Director, Center for Innovation in Early Cancer Detection, Massachusetts General Hospital, The Landry Family Professor of Medicine, Harvard Medical School

### **Q and A:**

Moderator: Bruce Rosen, MD, PhD, Director of Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital

**12:00 pm to 1:15 p.m. | SAC Member Lunch with MGH Faculty**

Thursday,  
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**1:15 pm to 2:45 pm | Novel Technologies**

### **Wearables**

Rosalind Picard, ScD, FIEEE, Director of Affective Computing Research, Massachusetts Institute of Technology, Faculty Chair, MIT Mind Hand Heart

### **Mobile Phone-based Interventions for Mental Health**

Sabine Wilhelm, PhD, Director, Center for Digital Mental Health, Director, Center for OCD and Related Disorders, Massachusetts General Hospital

### **Legal and Ethical Issues in Medical AI**

Glenn Cohen, JD, Deputy Dean and James A. Attwood and Leslie Williams Professor of Law, Harvard Law School, Faculty Director, Petrie-Flom Center for Health Law Policy, Biotechnology & Bioethics

### **Panel Discussion: Challenges of AI in Health Care**

Rosalind Picard, ScD, FIEEE

Sabine Wilhelm, PhD

Glenn Cohen, JD

Benjamin Silverman, MD, Senior IRB Chair, Mass General Brigham,

Adam Landman, MD, MS, MIS, MHS, Chief Information Officer; Digital Innovation Officer, Brigham and Women's Hospital

#### **Moderator:**

Collin Stultz, MD, PhD, Co-Director, Harvard-MIT Health Sciences & Technology, Massachusetts Institute of Technology, Nina T. and Robert Rubin Professor in Medical Engineering and Science, MIT, Professor, Electrical Engineering and Computer Science, MIT

### **2:45 pm – 2:50 pm Concluding Remarks**

Merit Cudkowicz MD, MSc, Chair of ECOR

