

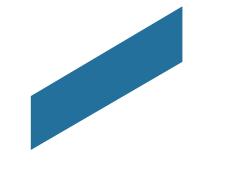
#HPI_Health

HPI - Mount Sinai **Digital Health Forum**



Hasso Plattner Institute Mount Sinai Health System

Potsdam 21-22 · November · 2019









Agenda

DAY 1

Thursday, November 21st

Opening Session 09.00 am

01.00 pm **Lunch**

Conference Opening and Welcome Erwin Böttinger

Hasso Plattner Institute for Digital Engineering Icahn School of Medicine at Mount Sinai

Research Strategic Plan of Icahn School of Medicine at Mount Sinai

Dennis S. Charney Icahn School of Medicine at Mount Sinai

Introduction of Hasso Plattner Institute for Digital Engineering

Christoph Meinel Hasso Plattner Institute for Digital Engineering

Keynote: Genetic Risk and Its Use in Disease Prevention

Health Monitoring: Sensing and Analytics 02.00 pm **Session Chair: Frank Mayer** University Potsdam

Keynote: Wearable AI for Health and Well Being Paul Lukowicz German Research Center for Artificial Intelligence

Internet of Health Things

Bert Arnrich Hasso Plattner Institute for Digital Engineering

Prescribing Apps and Bots: The Case of Diabetes Management in Trentino Oscar Mayora

Samuli Ripatti Institute for Molecular Medicine Finland

10.30 am Coffee Break

Platforms for Multimodal Health 11.00 am and Clinical Datasets

Session Chair: Felix Naumann Hasso Plattner Institute for Digital Engineering

Data Engineering for Big Data Analytics

Tilmann Rabl Hasso Plattner Institute for Digital Engineering

Scientific Computing/Research Clinical **Data Warehouse at ISMMS**

Farhan Mahmood Icahn School of Medicine at Mount Sinai **High-Fidelity Phenotyping to Enable Robust Machine Learning of Electronic Health Record Data** Ben Glicksberg Icahn School of Medicine at Mount Sinai

BioMe: Opportunities for Collaboration Judy H. Cho Icahn School of Medicine at Mount Sinai

The Mount Sinai Imaging Research Warehouse (MSIRW) As a Tool for AI Imaging Research

Bruno Kessler Foundation

Ubiquitous Health: Wearable Computing Systems that Increase Quality of Life and **Transform Health Care Bjoern Eskofier** Friedrich-Alexander-Universität Erlangen-Nürnberg

A Digital Health Cohort at Mount Sinai: A Framework for Clinical Trials, Clinical Studies and Transforming Healthcare Girish Nadkarni Icahn School of Medicine at Mount Sinai

Digital Health Innovation Germany: From Product to Reimbursement

Jörg F. Debatin hih – health innovation hub of the Federal Ministry of Health

Open discussion

04.00 pm Coffee Break

Panel Discussion: 04.15 pm **Co-Innovation in Digital Health** Moderator: Erwin Böttinger

Hasso Plattner Institute for Digital Engineering Icahn School of Medicine at Mount Sinai





Introduction to D4L and the "D4L **Insights Delivery Architecture**" **Christian-Cornelius Weiss** D4L data4life

Mount Sinai Al-ready Health Data **Platform Project** Péter Adorján D4L data4life

Open discussion

Dennis S. Charney Icahn School of Medicine at Mount Sinai

Katharina Hölzle Hasso Plattner Institute for Digital Engineering

Heyo K. Kroemer Charité – Universitätsmedizin Berlin

Erik Lium Icahn School of Medicine at Mount Sinai

Samuli Ripatti Institute for Molecular Medicine Finland



Agenda

DAY 2

Friday, November 22nd

Special Lecture: 08.30 am A Sneak Peak of IBM Research - From **Computing to Touching Health** Heike Riel **IBM** Research

Precision Medicine Use Cases 09.00 am

Session Chair: Jonathan Edelman Hasso Plattner Institute for Digital Engineering

Keynote: Big Data in Precision Medicine - Curse or Cure?

Roland Eils Berlin Institute of Health and Charité -Universitätsmedizin Berlin

Informing and Improving Imunotherapies with Analysis of High-Dimensional Immune **Monitoring Assays**

Machine Learning and Artificial 11.30 am **Intelligence in Human Health** Session Chair: Hanna Drimalla Hasso Plattner Institute for Digital Engineering

Keynote: Augmenting clinical intelligence with machine intelligence

Suchi Saria Johns Hopkins University School of Medicine

Applied Al: Better Together

Christoph Feest Helmholtz AI Cooperation Unit Central hosted by Helmholtz Center Munich

From Classification to Computation: Artificial **Intelligence Enabled Pathology**

Carlos Cordon-Cardo

Sacha Gnjatic Icahn School of Medicine at Mount Sinai

Opportunities for Innovation in Mental Health at HPI-Mount Sinai

Alexander Charney Icahn School of Medicine at Mount Sinai

Real-time NGS Analysis for the Human Microbiome and Beyond Bernhard Renard Robert Koch Institute

Process Mining in Personalized Medicine Mathias Weske Hasso Plattner Institute for Digital Engineering

Digital Endpoints: Development and Validation of Emerging Capabilities to Measure Disease **Ieuan Clay**

Novartis Institutes for BioMedical Research

Open discussion

Coffee and Networking Break 11.00 am



Deep Patient: Predict the Medical Future of Patients with Machine Learning and EHRs **Riccardo Miotto** Icahn School of Medicine at Mount Sinai

Personalized Vaccines - How Algorithms Shape Modern Cancer Therapy Benjamin Schubert

Helmholtz Center Munich

Machine Learning for Health Cohorts

Christoph Lippert Hasso Plattner Institute for Digital Engineering

Open discussion

Concluding Remarks 01.30 pm Erwin Böttinger, Dennis Charney, Christoph Meinel

