

**20th Anniversary Future of Health Technology Summit®
World Health Strategy**

May 2-3, 2016



at Bartos Theatre, Wiesner Bld E-15, Massachusetts Institute of Technology
20 Ames St, Cambridge, MA

**FHTI 2016 - UNITE SCIENCE, ART, TECHNOLOGY and MEDICINE
for Happier, Longer Lives**

**Remember, honor and build upon Marvin Minskys scientific work
2016 Future of Health Technology Award Honoree: Dr. Xiu-Min Li**

Produced by the Future of Health Technology Institute - FHTI
Conference Chair, Renata Bushko bushko@fhti.org

Updated on: 4/30/2016

Day I	Monday, May 2, 2016
8:00 - 8:30	Networking Breakfast and Introductions
8:30 - 8:45	Presentation of 2016 Art Work Wally Gilbert Ph.D. Nobel Prize, Chemistry Photographic Artist Christopher MacDonald Instructor, Graphic & Web Design New England Institute of Art Jehan Said Graphic Designer New England Institute of Art
8:45 - 9:00	New World Health Strategy: What fundamental changes and dramatic shifts do we need to prepare for? Renata Bushko M.S. Founder, Future of Health Technology Institute Editor, "Strategy for the Future of Health" & "World Health Strategy"
9:00 - 9:20	How do we treat patients like valued customers? Sanjay Sarma MPH Managing Partner Prosperata LLC Rahul Ghate Managing Partner Prosperata LLC

- 9:20 - 9:40** **Can terabytes of new data deepen our knowledge of the state of health care in the Commonwealth of Massachusetts?**
Sylvia Demetra Hobbs
Manager of Services and Strategy
Massachusetts Center for Health Information and Analysis
- 9:40 - 10:10** **What are novel strategies for enhanced predictive modelling and deep learning in the biosciences?**
Tom Chittenden Ph.D., DPhil
Vice President of Statistical Sciences
WuXi NextCODE Genomics
Lecturer on Pediatrics , Division of Genetics and Genomics
Boston Children's Hospital, Harvard Medical School
Visiting Lecturer , Department of Biomedical Engineering
Massachusetts Institute of Technology
- 10:10 - 10:30** **How to cure almost everything in brain disorder with light?**
Newton Howard DPhil OXON INSERM, PHP Sorbon
Professor of Computational Neuroscience and Functional Neurosurgery
University of Oxford,
Director, Computational Neuroscience Lab
Chairman, Brain Sciences Foundation
- 10:30 - 10:50** **Break**
- 10:50 - 11:10** **How should we communicate to the public about health technology?**
Shelagh Maloney BSc, CPHIMS-CA
Vice President, Consumer Health, Communications and Evaluation Services
Canada Health Infoway
- 11:10 - 11:30** **How can Big Data make a big difference in the end-of-life care?**
Shari Heath
Vice President, Product Management
Medalogix
Dan Hogan
CEO and Founder
Medalogix
- 11:30 - 12:00** **How should we honor and build upon Marvin Minsky's work?**
Renata Bushko M.S.
Founder, Future of Health Technology Institute
Editor, "Strategy for the Future of Health" & "World Health Strategy"
Aubrey de Grey Ph.D.
Chief Scientific Officer
SENS Foundation
Author of "Ending Aging"
Joshua Feast MBA
CEO
Cogito Corporation
Glenn Fields M.S.
Principal
Fields Consulting Services, LLC
Michael McDonald Dr.PH
Coordinator, Global Health Response and Resilience Alliance
Chairman , Oviar Global Resilience Systems, Inc.

- 12:00 - 12:15** **Remarks**
Dr. Ray Kurzweil
 Inventor, Author, and Computer Scientist
 Author of "Singularity is Near" and "How to Create a Mind"
 Recipient of National Medal of Technology
 National Inventor's Hall of Fame
- 12:15 - 12:45** **Networking Lunch**
- 12:45 - 1:10** **2016 Future of Health Technology Award Lecture: Can Chinese herb-based medicines heal the immune system and cure allergies?**
Xiu-Min Li M.D., M.S.
 Honoree Future of Health Technology Award 2016
 Professor of Pediatrics, Division of Allergy and Immunology
 Jaffe Food Allergy Institute
 Director, Center for Integrative Medicine for Allergies and Wellness
 Icahn School of Medicine at Mount Sinai
 Author of "Traditional Chinese Medicine, Western Science, and the Fight Against Allergic Disease"
- 1:10 - 1:30** **Will healthcare be delivered by George Jetson in the future?**
Nick van Terheyden M.D.
 Chief Medical Officer,
 Dell Services, Healthcare
- 1:30 - 1:50** **How can we chart the future for digital health information systems?**
Gary Kreps Ph.D., FAAHB
 University Distinguished Professor, Department of Communication
 Director, Center for Health and Risk Communication
 George Mason University
- 1:50 - 2:10** **What are seven secrets to staying young?**
Aubrey de Grey Ph.D.
 Chief Scientific Officer
 SENS Foundation
 Author of "Ending Aging"
- 2:10 - 2:25** **Break**
- 2:25 - 2:45** **How can we harness healing power from plants?**
Jing-Ke Weng Ph.D.
 Member, Whitehead Institute for Biomedical Research
 Assistant Professor of Biology, Massachusetts Institute of Technology
- 2:45 - 3:05** **Can we forecast changes in mood and mental health, like we forecast a storm?**
Rosalind Picard ScD
 Professor, MIT Media Laboratory
 Director, Affective Computing Research Faculty Chair, MIT
 Mind+Hand+Heart
 Co-founder & Chief Scientist, Empatica Inc., Co-founder, Affectiva Inc.
- 3:05 - 3:40** **What is the future of pain management?**
Darin Correll M.D.
 Director, Acute Postoperative Pain Management Service
 Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital

Assistant Professor of Anaesthesia, Harvard Medical School

Navil Sethna MD, FAAP

Clinical Director, Mayo Family Pediatric Pain Rehabilitation Center
Boston Childrens Hospital in Waltham

Associate Professor of Anaesthesia, Harvard Medical School

Daniell Carr MD MA

Professor of Public Health and Community Medicine

Program Director, Pain, Research Education & Policy

Tufts University School of Medicine

3:40 - 4:00

How can we reduce opioid misuse among chronic pain patients and what is the role of risk assessment and innovative technology?"

Robert Jamison Ph.D.

Professor of Anesthesia, Psychiatry, and Physical Medicine and Rehabilitation, Harvard Medical School & Chief Psychologist, Pain Management Center, Brigham and Womens Hospital

4:00 - 4:15

Break

4:15 - 4:35

Future. Computation. Health.

Stephen Wolfram Ph.D.

Founder & CEO of Wolfram Research,
creator of Mathematica & Wolfram|Alpha and
author of A New Kind of Science

4:35 - 4:55

Big Data and Health - how can it help you in work and life?

Professor Alex (Sandy) Pentland

Author of "Honest Signals" and "Social Physics"

Director, Human Dynamics Group, MIT Media Laboratory

Co-leader the World Economic Forum Big Data and Personal Data initiatives

Most quoted computational scientist in the world

4:55 - 5:30

Future Care Panel: How will healthcare look like in 10-20 years?

Moderator: Renata Bushko, Founder, Future of Health Technology Institute

Mr. Xing Jijun Ph.D.

Counselor Consul for Science and Technology,
Consulate General of P.R. China in New York

Joseph Kvedar M.D.

Vice President, Connected Health, Partners HealthCare System, Inc.

Associate Professor of Dermatology

Harvard Medical School

Guergana Savova Ph.D.

Associate Professor, Harvard Medical School

and Children's Hospital Informatics Program (CHIP)

Boston Childrens Hospital

Robert Teague M.D.

Vice President, Medical Transformation

Quorum Health Resources

5:30 - 5:50

What is the healing story of Dr. Xiu-Min Li?

Barbara Winston

President

Bruce Winston Gem Corporation

- 5:50 - 6:10** **FHTI Award Ceremony and Interview with Dr. Xiu-Min Li**
 Dr. Li's compassion and ground-breaking discoveries immensely improve the quality of her patients' lives. How can we use her wisdom to conquer pandemic of diseases of the immune system around the world?
Xiu-Min Li M.D., M.S.
 Honoree Future of Health Technology Award 2016
 Professor of Pediatrics, Division of Allergy and Immunology
 Jaffe Food Allergy Institute
 Director, Center for Integrative Medicine for Allergies and Wellness
 Icahn School of Medicine at Mount Sinai
 Author of "Traditional Chinese Medicine, Western Science, and the Fight Against Allergic Disease"
Renata Bushko M.S.
 Founder, Future of Health Technology Institute
 Editor, "Strategy for the Future of Health" & "World Health Strategy"
- 6:10 - 6:15** **Musical Award to Dr. Xiu-Min Li**
 Shepherd's Song based on a Chinese folk song by Sa Han-Quan by amazing violinist Yuan Mei Xing celebrating 20th performance at FHTI Summits.
Yuan Mei Xing
 Violin
- 6:15 - 7:05** **Gala Dinner with Artwork by Wally Gilbert**
 Thanks to Robert Planutis General Manager Aramark @MIT for 20 years of wonderful celebrations of health and good food.
Yuan Mei Xing
 Violin
Steven Jackson
 Piano, Member of the orchestra
 Boston Lyric Opera
 Principal Clarinetist, Orchestra of Indian Hill, Symphony New Hampshire, and the Boston Landmarks Orchestra.
 Teacher, Indian Hill Music Center.
- 7:05 - 7:25** **Original Solo Dance Performance Illustrating Ideas in the FHTI Summit**
 Talented dancer and genius of choreography - Maria Caruso is using dance as a platform to communicate scientific, medical, and educational advances.
Maria Caruso
 Founding Artistic Director, Bodiography
 Chair, La Roche College Performing Arts Department

Day II	Tuesday, May 3, 2016
8:00 - 8:30	Networking Breakfast
8:30 - 8:50	World Health Strategy: What is the road from Artificial Intelligence to Intelligent Health? Renata Bushko M.S. Founder, Future of Health Technology Institute Editor, "Strategy for the Future of Health" & "World Health Strategy"
8:50 - 9:10	Why Minsky's Ideas are Important for Medicine? From Society of Mind to Society of Body Henry Lieberman

Visiting Scientist
MIT Media Laboratory

9:10 - 9:30 **What are new innovative offerings to the consumer in the cancer treatment area?**

Lorraine Gudas Ph.D.

Chairman, Department of Pharmacology,
and Revlon Pharmaceutical Professor of Pharmacology and Toxicology,
Weill Cornell Medical College of Cornell University
Founder, Sveikatal, Inc.

9:30 - 9:50 **What would best catalyze 100% renewable energy distributed collectively through intelligent grids globally? Energy, Collective Intelligence, and Health Status Under Climate Change**

Michael McDonald Dr.PH

Coordinator, Global Health Response and Resilience Alliance
Chairman , Oviar Global Resilience Systems, Inc.

9:50 - 10:10 **Can we repair a broken brain with movement therapy approach?**

Hermano Igo Krebs Ph.D.

Principal Research Scientist & Lecturer, MIT
Co-founder, Interactive Motion Technologies

10:10 - 10:30 **Is a hospital a place? The future of hospital care.**

Robert Teague M.D.

Vice President, Medical Transformation
Quorum Health Resources

10:30 - 10:50 **Break**

10:50 - 11:35 **How can we accelerate formation and success of biotechnology startups?**

Albert Di Rienzo

Panel Moderator
President, CEO & Founder at Radicle Innovation, LLC

Adam Greenspan

Director, Business Incubation
University City Science Center, Philadelphia

Eric Elenko Ph.D.

Executive Vice President
Pure Tech

Scott Tenenbaum Ph.D.

Associate Professor of Nanobioscience
SUNY-Polytechnic Institute
College of Nanoscale Science and Engineering

11:35 - 11:50 **New Book Announcement: Traditional Chinese Medicine, Western Science, and the Fight Against Allergic Disease.**

Henry Ehrlich

Editor asthmaallergieschildren.com
Co-author Traditional Chinese Medicine, Western Science, and the Fight
Against Allergic Disease.

11:50 - 12:10 **What's next in the Application of Nanotechnology-based Molecular Delivery Systems?**

Guillermo Ulises Ruiz Esparza MD, PhD, FRSA

Post-Doctoral Associate
Harvard-MIT Division of Health Sciences and Technology
Brigham and Women's Hospital.

- 12:10 - 12:30** **Does your smartphone know more about your mental health than your doctor?**
Skyler Place Ph.D.
 Vice President, Digital Health,
 Cogito Corporation
- 12:30 - 1:00** **Networking Lunch**
- 1:00 - 1:20** **How can Google Glass remotely integrate with microfluidic biosensors and actuators?**
Yu Shrike Zhang Ph.D.
 Instructor of Medicine, Associate Bioengineer
 Brigham and Women's Hospital, Harvard Medical School
 Harvard-MIT Division of Health Sciences and Technology
 Wyss Institute for Biologically Inspired Engineering
- 1:20 - 1:25** **How will fashion industry change healthcare? How will high-tech fashion and wearable technology market impact consumers' health? Will garment be a new health app development platform?**
Renata Bushko M.S.
 Founder, Future of Health Technology Institute
 Editor, "Strategy for the Future of Health" & "World Health Strategy"
- 1:25 - 1:45** **Beauty Technology: When Technology meets Cosmetics**
Katia Vega Ph.D.
 Postdoc Associate & Designer
 MIT Media Lab
- 1:45 - 2:05** **Are exoskeletons a solution to physical disparity?**
Ernesto Rodriguez Leal Ph.D.
 Professor in Robotics at Tecnológico de Monterrey, Mexico
 CEO, WeaRobot
- 2:05 - 2:20** **Can you imagine cities that feel, understand, and take care of your wellbeing?**
Agnis Stibe Ph.D.
 Changing Places Research Group
 MIT Media Lab
- 2:20 - 2:35** **How can network science be applied for an expanded understanding of large online network information structures and behaviors to modernize public health communication strategies for improved health outcomes?**
Brittany Seymour, DDS, MPH
 Department of Oral Health Policy and Epidemiology
 Harvard School of Dental Medicine
- 2:35 - 2:55** **Break**
- 2:55 - 3:10** **Can herbal flavonoids reduce inflammation? How does Arctigenin isolated from *Arctium lappa* L. inhibit IgE production?**
Renna Bushko
 Neuroscience, Smith College
 Research Intern, Department of Pediatrics,
 Icahn School of Medicine at Mount Sinai
- 3:10 - 3:25** **How can we implement personalized positive psychology interventions in the form of interactive journaling?**
Sooyeon Jeong

Research Assistant, Personal Robots Group
MIT Media Lab

- 3:25 - 3:40** **How can we reduce the economic burden of Type 2 Diabetes management through smartphone technology and Big Data?**
Todd Reid ScD MBA MPH MSc
CATCH, Massachusetts General Hospital
MIT Connection Science
Ian Pentland
Computer Science
Northeastern University
- 3:40 - 3:55** **What is the future of depression prediction based on self-report diary via smartphone applications?**
Yoshihiko Suhara
MIT Media Lab
Recruit Institute of Technology
- 3:55 - 4:10** **How can 3-D printing help with epithelial wound healing?**
Luis Alonso Pastor Ph.D.
Research Scientist
at Changing Places, MIT Media Lab
- 4:10 - 4:15** **How can we build trustworthy, secure and transparent Health-Apps?**
Virtual Participation
Urs-Vito Albrecht M.D. MPH
Deputy Director (Hannover) / PI PLRIMedAppLab
Peter L. Reichertz Institute for Medical Informatics
University of Braunschweig - Institute of Technology
and Hannover Medical School
- 4:15 - 4:20** **What is the future of eHealth?**
Virtual Participation
Claudia Pagliari Ph.D.
Global eHealth,
The University of Edinburgh
- 4:20 - 4:25** **What is the action plan for redefining World Health Strategy? 2016 FHTI Project/Product Recognition**
Renata Bushko M.S.
Founder, Future of Health Technology Institute
Editor, "Strategy for the Future of Health" & "World Health Strategy"
- 4:25 - 4:35** **Ideas Generation and Discussion**
- 4:35 - 4:45** **Reflections, Insights, Synthesis and Improvisation #1**
- 4:45 - 4:55** **Reflections, Insights, Synthesis and Improvisation #2**
- 4:55 - 5:05** **Planning Coordinated Global Communications Outreach**