



EXPONENTIAL Medicine

DRAFT SCHEDULE - *Subject to Change*

Monday, November 4th • **DAY 1**

11:45 AM - 1 PM	Platinum Participant & Faculty Luncheon
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1:00 PM	Session 1	Welcome + Reimagining The Future Of Medicine Welcome and framing to the four days Exponential Medicine (xMed): How is technology converging, and enabling the reinvention of health & medicine across the care continuum. Will Weisman, <i>Executive Director, Summits. Singularity University</i> Daniel Kraft MD <i>Founder & Chair, Exponential Medicine. Faculty Chair for Medicine, Singularity University.</i>
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1:45 PM	Session 2	Exponentials Essentials & Updates Tools to build the future. An update on how rapidly developing technologies are advancing, what is cutting edge today and implications for the future. Artificial intelligence & Machine Learning Neil Jacobstein, <i>Faculty Chair for AI & Robotics, Singularity University</i> Robotics, Humans & Hybridization: The New Surgical Team Catherine Mohr, M.D. <i>President, Intuitive Foundation</i> Big Data & Deep Learning Michael Gillam, MD. <i>CEO & Founder HealthLab</i> Genomics Rodrigo Martinez, <i>Chief Design Officer, Veritas Genetics</i>
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3:00 PM	Break: Merge, Meet, Mix And Recharge
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3:30 PM	Session 3	Exponentials Essentials & Updates Part II Integrating the Microbiome in Medicine Jack Gilbert PhD , <i>Professor of Pediatrics, UC San Diego</i> Blockchain in Healthcare - The Good the Bad and the Ugly Heather Flannery <i>Board Chair of Blockchain in Healthcare Global</i> Mariya Filipova, <i>VP of Innovation, Anthem Inc</i> Health Utility Network Founding Members Virtual, Augmented & Extended Reality Rafael Grossmann MD, <i>Surgeon & Virtualist</i> (im)Patient Innovation Richard Hanbury, <i>CEO Sana Health</i>
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5:00 PM	Session 4	<p>Convergence, Artistry & Adjacencies As adjacent fields are converging, new and unexpected approaches to solving biomedicine's grand challenges are emerging. How can novel forms of visualization enable a better understanding of human and environmental health.</p> <p>Convergence of Frontiers in Veterinary & Human Medicine. Eleanor M. Green DVM, <i>Dean Texas A&M University College of Veterinary Medicine & Biomedical Sciences</i></p> <p>Visualizing Health & Disease Alexander Tsiaris, <i>Founder & CEO, StoryMD</i></p> <p>Fantastic Fungi Louie Schwartzberg, <i>Film Director & Cinematographer</i></p> <p>Exponential Entrepreneurship Naveen Jain, <i>Founder & CEO of Viome</i></p>
6:15 PM	Session 5	<p>Keynotes</p> <p>Changing the Questions: From Healthcare to Health Rebecca Onie & Rocco Perla, <i>Co-founders of The Health Initiative</i></p> <p>Redesigning Healthcare Stacey Chang, <i>Executive Director of the Design Institute for Health Dell Medical School</i></p>
7:30 PM	<p>Dinner Under The Stars: Hotel del Coronado</p> <p>Windsor Lawn With Faculty Discussion Led Tables</p>	
9:00 PM	<p>Innovation Games</p>	

7:00 AM Breakfast In The Innovation Lab + Morning Activities:
Beach Run/Walk, Yoga, Meditation, Art

8:30 AM **Session 6** **The Neobiological Revolution**
The accelerating ability to both read and write DNA and to understand and manipulate human biology has major implications for the future of healthcare and humanity.

Jane Metcalfe, *Founder Neo.Life Cofounder WIRED*

Andrew Hessel, *CEO, Humane Genomics*

Kari Nadeau MD, PhD, *Director of the Sean Parker Center for Allergy & Asthma Research at Stanford University, Section Chief of Allergy and Asthma at the Stanford School of Medicine*

9:30 AM **Session 7** **Digital Health & Medicine. From Inception To Impact**
As mobile sensors, data and informatics converge, novel approaches to diagnosis, disease management and discovery are making their way to our wrists, and now physical and virtual clinics. What are the lessons, and potential going forward?

Dave Albert, MD, *Founder, & Chief Medical Officer, AliveCor*

Suraj Kapa MD, *Director, Augmented and Virtual Reality Innovation, Professor of Medicine Mayo Clinic*

Yonatan Adiri, *Founder & CEO, Healthy.io*

Jennifer Goldsack, *Executive Director, Digital Medicine Society (DiMe)*

Nigam Shah MBBS, PhD, *Associate Professor of Medicine (Biomedical Informatics) and Biomedical Data Science, Stanford Medical School*

10:40 AM Break: Recharge, Refresh & Explore The xMed Innovation Lab

11:10 AM **Session 8** **Medicine And The Machine:**
Medscape editor-in-chief Eric Topol, MD, and master storyteller and clinician Abraham Verghese, MD, will explore 'Medicine and the Machine' and discuss the power and pitfalls of artificial intelligence and how technology will change modern medicine.

Eric Topol, MD, *Founder and Director, Scripps Research Translational Institute*

Abraham Verghese, MD, *Professor for the Theory and Practice of Medicine and Senior Associate Chair of the Department of Internal Medicine. Stanford Medical School*

	Session 9	<p>Reinventing The Regulator and Services For The Digital Age</p> <p>As medical devices, software and AI merge, how can novel solutions be demonstrate their safety and efficacy and be regulated effectively? How do governments leverage digital tools to create health equity and impact?</p> <p>Asif Dhar, MD, <i>Chief Health Informatics Officer & Principal, DeloitteConsulting</i></p>
12:30 PM	Lunch: Meet The xMed Faculty At Designated Tables	
1:30 PM	Breakout Sessions I	<p>70 minute interactive, breakout sessions:</p> <p><i>Includes deep dives with faculty from prior sessions.</i></p>
3:00 PM	Session 10	<p>Abundance, Bold Thinking & Massive Transformative Purpose</p> <p><i>An interactive session with Peter Diamandis.</i></p> <p>Peter Diamandis MD, XPRIZE <i>founder and Chairman, Co-founder of Singularity University</i></p>
3:30 AM	Session 11	<p>Vision.Health: Seeing Beyond & Future Of Diagnostics</p> <p>Beyond the standard labs and radiology, exponential technologies are enabling new forms of sensing and diagnostics. This session will focus on decoding the opportunities that machine vision promises over the decade ahead.</p> <p>Leerom Segal, <i>CEO, Co-founder, Klick Health</i></p> <p>Kamran Shah, <i>EVP Technology & Media Klick Health</i></p>
4:10 AM	Session 12	<p>Accelerating Cures & Future Of Pharma</p> <p>From Big Pharma to patients turned researchers, what are novel approaches and mindsets to discovering, testing and implementing therapies for common to rare diseases.</p> <p>Ameet Nathwani MD, <i>Chief Digital Officer, Chief Medical Officer and Executive Vice President, Sanofi</i></p> <p>David Fajgenbaum MD MBA, <i>Asst Professor, Division of Translational Medicine & Human Genetics, University of Pennsylvania School of Medicine. Author of 'Chasing My Cure: A Doctor's Race to Turn Hope Into Action'</i></p> <p>Sean Escola MD PhD, <i>Co-founder & CEO, System 1 Biosciences</i></p>
5:00 PM	Break: Recharge, Connect And Explore The xMed Innovation Lab	

5:30 PM	Session 13	Lifespan, Healthspan & the Future of Humanity <p>Is there an upstream basis that drives the hallmarks of aging? From epigenetics to sensolytics and CRISPR, what are the promises, perils and ethical challenges in altering or optimizing our biology.</p> <p>David Sinclair PhD. <i>Co-Director of the Paul F. Glenn Center for the Biology of Aging at Harvard Medical School</i></p> <p>Jamie Metzler JD PhD, <i>Senior Fellow, The Atlantic Council. Author of Hacking Darwin. Author of Hacking Darwin: Genetic Engineering & the Future of Humanity</i></p>
	Music	<p>Now Hear This: Music, Health & Medicine</p> <p>Brothers Koren: Issac & Thorald Koren introduction by Frank Fitzpatrick, <i>CEO EarthTones</i></p>
6:40 PM	Session 14	And In The End... <p>Until there is a 'cure' for aging, how we want to die represents one of the most important and costly conversations most of us are not having</p> <p>Michael Hebb, <i>Founder of Death Over Dinner</i></p>
	Session 15	Hippocratic Oath 2.0 <p>How will the roles, responsibilities and obligations of both industry and healthcare professionals evolve in our exponential age? Do we need a new Hippocratic Oath. Does Industry need one as well?</p> <p>Jordan Shlain MD. <i>Private Medical</i></p>
7:30 PM	Dinner Under The Stars - Hotel Del Coronado, Windsor Lawn	
	Faculty Discussion Tables	
	Death Over Dinner Discussion Tables	
	Evening Activities	
	Parallel Options Include -Platinum & Faculty Reception -Screening Of 'Fantastic Fungi' Movie -Shots & Moonshots -Sacred Cacao Ceremony	

7:00 AM	Breakfast In The Innovation Lab + Morning Activities: Beach Run/Walk, Yoga, Meditation, Art	
8:30 AM	Session 16	<p data-bbox="578 359 927 380">Neuromedicine At The Frontier</p> <p data-bbox="578 394 1406 485">Our understanding of the brain and mind is accelerating. This session will explore the cutting edge, from consciousness, to preventing and treating neuro pathologies.</p> <p data-bbox="578 527 1325 579">Rudolph Tanzi PhD, <i>Professor of Neurology, Harvard Medical School. Co-Director Center for Brain Health at Massachusetts General Hospital.</i></p> <p data-bbox="578 621 1312 646">Divya Chander MD PhD, <i>Chair for Neuroscience, Singularity University</i></p> <p data-bbox="578 688 857 714">Guru Banavar, <i>CTO, Viome</i></p> <p data-bbox="578 747 1344 806">Shai Efrati MD, <i>Director of The Sagol Center for Hyperbaric Medicine and Research. Tel Aviv University</i></p>
10:10 PM	BREAK: Refresh, Recharge & Connect In The Innovation Lab	
10:40 AM	Session 17	<p data-bbox="578 936 1230 957">The Future Of Clinical Care: AnyTime, AnyWare, AnyBody.</p> <p data-bbox="578 972 1406 1094">Who does what, when and where? New tools for preparation and practice to upskilling and collaboration. The blending of in-person and virtual care, avatars, to AI enabled decision support is reshaping how and where healthcare happens.</p> <p data-bbox="578 1136 1377 1188">Jennifer Radin, <i>Healthcare Chief Innovation Officer & Future of Work Leader, Deloitte Consulting</i></p> <p data-bbox="578 1220 1211 1245">Shafi Ahmed MD, <i>Professor of Surgery Barts Medical School.</i></p> <p data-bbox="578 1278 1057 1304">Danny Thomsett <i>Digital Humans, CEO, UneeQ</i></p> <p data-bbox="578 1337 1024 1362">Marie Johnson, <i>Centre for Digital Business</i></p> <p data-bbox="578 1396 987 1421">Clinton Phillips, <i>Founder & CEO, Medici</i></p> <p data-bbox="578 1455 1146 1480">Rajeev Ronanki, <i>SVP and Chief Digital Officer, Anthem</i></p> <p data-bbox="578 1514 1097 1539">Ted Goldstein PhD, <i>Chief A.I. Officer, Anthem Inc.</i></p> <p data-bbox="578 1572 1122 1598">Kira Radinsky PhD, <i>Co-founder, Diagnostic Robotics</i></p>
12:30 AM	xMed Participants “Scrubs Photo”	
12:40PM	Lunch, Beachside With Faculty & Topic Discussion Tables	
1:30 PM	Breakout Sessions II	Interactive, deep-dive parallel breakout sessions

3:00 PM	Session 18	<p>Nutrition, Health And Food Of The Future</p> <p>“Let Food be Thy Medicine” (Hippocrates). The science of nutrition is rapidly evolving, as are new forms of FoodTech. What are the implications for the environment, to prevention to treatment of disease.</p> <p>William Li MD, <i>Founder, Angiogenesis Foundation</i></p>
3:40 PM	Session 19	<p>Planetary And Global Health</p> <p>From climate change to pandemic disease, novel approaches are needed to address these grand challenges and to apply technologies that democratize and improve healthcare at a global level.</p> <p>Moira Gunn, <i>Tech Nation</i></p> <p>Michelle A. Williams, SM, SD, <i>Dean, Harvard T.H. Chan School of Public Health</i></p> <p>Paul Auerbach MD. <i>Emeritus Professor. Stanford, Dept of Emergency Medicine. Founder, Wilderness Medical Society. Author of Enviromedics</i></p> <p>Stephen Hunt MD PhD, <i>Professor, University of Pennsylvania</i></p>
4:40 PM	Break: Refresh & Recharge In The Innovation Lab	
5:10 PM	Session 20	<p>The Things That Kill Us: #ThisIsOurLane</p> <p>Clinicians and patients are increasingly becoming activists at the social and policy level on matters of public health addressing a range of issues including gun violence, vaccination rates and clinician well-being and burnout. Hear from those on the frontlines of hashtags making a difference.</p> <p>Megan Ranney, MD MPH, <i>Brown University Associate Professor of Emergency Medicine, Health Services, Policy & Practice. Chief Research Officer of American Foundation for Firearm Injury Reduction in Medicine</i></p> <p>Kristina Saffran. <i>Co-founder and CEO, Project HEAL</i></p> <p>Lori Boyle RN. <i>Nurses Who Vaccinate</i></p> <p>Stephen Eisenberg, DO. <i>Oncologist.</i></p>
Music	Brothers Koren	
6:10 PM	Session 21	<p>The Things That Save Us: Mushrooms, Mycology & Medicine</p> <p>A keynote from the world’s leading mycologist and medical researcher on the role of fungi in environmental and human health.</p> <p>Paul Stamets, <i>Founder, Fungi Perfecti</i></p>
7:00 PM	Session 22	<p>MEDy (M.edical E.ntrepreneurship & D.isruption) Startup Awards</p> <p>Selected winners share their innovative startups</p> <ul style="list-style-type: none"> -Most Disruptive -One To Watch -Best Pitch -Most Likely to Scale
7:30 PM	Beach Celebration, Dinner & Bonfire	
9:30 PM till late	Silent Disco	

07:00 AM	Breakfast In The Innovation Lab + Morning Activities: Beach Run/Walk, Yoga, Meditation, Art
9:00 AM	<p>Session 23 Breakthrough, Follow Through and Systems Innovation: Lessons from Around The Globe:</p> <p>What's worked, what's failed ... implementing and scaling innovation is hard. This session will share examples of success, challenges, lessons learned, and implications of moving from What to How in cross-catalyzing and scaling progress around the world. .</p> <p>Lucien Engelen, <i>CEO, Transform Health</i></p> <p>Shawna Butler RN, MBA. <i>Nurse Economist. Singularity University</i></p> <p>John Mattison MD, <i>Assistant Medical Director, Chief Health Information Officer, Emeritus. Kaiser Permanente.</i></p> <p>Robert Wah MD, <i>Co-chair Health Information Tech Advisory Committee at HHS</i></p> <p>Stretch & Connect / Discussion & Feedback</p>
10:40 AM	<p>Session 24 Reimagining Health Equity</p> <p>Expanding Health Equity</p> <p>What can organizations, individuals and society do to reduce disparities, and expand access and health equity throughout practice, process, and innovation?</p> <p>Aletha Maybank MD MPH, <i>Chief Health Equity Officer, AMA</i></p> <p>Health Plan Innovation, What's Next?</p> <p>In an ever more connected, mobile, personalized and data-driven world, how are healthcare companies digitizing and reimagining their role across the healthcare continuum? A fireside chat with the CEO of Anthem.</p> <p>Gail Boudreaux, <i>CEO of Anthem Inc.</i></p>
11:45	<p>Session 25 Healthcare Heroes</p> <p>We are on the cusp of a dramatic transformation in healthcare. New technology, science and data is driving exponential advances in medicine to ultimately improve the lives of patients. Now more than ever we need healthcare's unsung heroes, who are working with passion, purpose and determination to improve patient's lives globally.</p> <p>David Hunt, <i>CEO West, Havas Health & You</i> Jessica Fogelsong MD, <i>MD Anderson Cancer Center</i> Mike Porath, <i>Founder, The Mighty</i> Godfrey Nazareth, <i>President & CEO, X-Biomedical</i></p>
12:30	<p>Session 26 xMed Synthesis: Catalyzing and Building the Collaboratory of The Future</p> <p>Jack Kreindler, MD <i>Founder, The Centre for Health & Human Performance</i> Daniel Kraft MD, <i>Founder & Chair, Exponential Medicine</i></p>