

# Biologize the Future

## 2024 Event Agenda

As of May 3, 2024, Subject to Change

**Join us for Keynotes, Fireside Chats, Networking Events, Breakout Sessions & Panels, Roundtable Discussions, Lunch & Learns, Poster Sessions, and Innovative Exhibits**



**May 6-9, 2024 - San Jose Convention Center, California**



## Start Connecting!

SynBioBeta 2024 Networking App

Check out who's attending,  
Set up 1:1 meetings, and  
add sessions to your calendar.



## SynBioBeta 2024: The Global Synthetics Biology Awards Nominees!

### Lifetime Achievement

- Moira Gunn, Host at NPR / Bio Tech Nation
- Vinod Khosla, Founder & Partner at Khosla Ventures
- Paul Stamets, Founder & Member at MycoMedica

### Impact Award

- Victorien Dougnon, Professor of Microbiology at University of Abomey, Calavi
- Caitlin Frazier, Executive Director at National Security Commission on Emerging Biotechnology
- Mark Kotter, Founder & CEO at bit.bio

### Climate Industry Leader

- Tom Baruch, Founder at Baruch Future Ventures
- Tara Karimi, Co-founder & CSO at Cemvita
- Michael Koepke, Chief Innovation Officer at LanzaTech

### Pioneer Award

- Ginger Dosier, Co-Founder at Biomason
- Matthew Hill, CEO at Elegen
- Sang Yup Lee, Senior Vice President for Research at KAIST

### Rising Star Award

- Farren Isaacs, Professor at Yale University / Pearl Bio
- Marion Pepper, Co-Director at The Seattle Hub for Synthetic Biology
- Suveen Sahib, CEO & Co-founder at K18 Hair

### Biodesign

- Drew Berry, Molecular Animator
- Natsai Chieza, Founder & CEO at Faber Futures
- Daniel Grushkin, Founder at Biodesign Challenge

	Pre Conference Monday, May 6	Day 1 Tuesday, May 7		Day 2 Wednesday, May 8		Day 3 Thursday, May 9	
	Registration Open 8am-7pm	Registration Open 7am-6pm		Registration Open 7am-6pm		Registration Open 7am-4pm	
	Conference	Conference	Innovation Discovery	Conference	Innovation Discovery	Conference	Innovation Discovery
All Day	Introduction to Synthetic Biology	Breakfast Breakouts Main Stage Keynotes Fireside Chats Lunch & Learns Breakouts Spotlight Talks Lightning Talks	Exhibit Hall & Poster Sessions Open 10am-7pm  1:1 Meetings	Breakfast Breakouts Main Stage Keynotes Fireside Chats Lunch & Learns Breakouts Spotlight Talks Lightning Talks	Exhibit Hall & Poster Sessions Open 10am-7pm  1:1 Meetings	Breakfast Breakouts Main Stage Keynotes Fireside Chats Lunch & Learns Breakouts Spotlight Talks Lightning Talks	Exhibit Hall & Poster Sessions Open 10am-4pm  1:1 Meetings
Evening	Networking	Networking		Networking		Farewell Until 2025	
	New Attendee Reception	Expo Hall Cocktail Hour Welcome Reception Poetry Slam		Expo Hall Cocktail Hour Birds of a Feather			

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See the full list at [synbiobeta.com/attend/synbiobeta-2024/speakers](https://synbiobeta.com/attend/synbiobeta-2024/speakers)

## Featured Speakers



**Stephen Wolfram**  
Wolfram Research



**Vinod Khosla**  
Khosla Ventures



**Martine Rothblatt**  
United Therapeutics



**Thomas Südhof**  
Nobel Laureate



**Mary Lou Jepsen**  
Openwater



**Matt Mahan**  
Mayor of San Jose



**Packy McCormick**  
Not Boring



**Stephen Quake**  
Chan Zuckerberg Initiative



**Craig Venter**  
JCVI



**Paul Stamets**  
Fungi Perfecti



**Drew Berry**  
Animator



**Linda Avey**  
Humain Ventures



**Juan Benet**  
Protocol Labs



**Sang Yup Lee**  
KAIST



**Patrick Hsu**  
Arc Institute



**Kate Rubins**  
NASA

## + over 300 more



# 2024 Track Chairs

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**Erin Kim**  
Erin Kim Consulting  
Consumer Products



**Paul Stamets**  
Fungi Perfecti  
Psychedelics



**Shelby Newsad**  
Compound.vc  
AI & Digital Biology



**Sarah Carter**  
Science Policy Consulting  
Biosecurity & Bioethics



**Yves Falanga**  
FyT Consulting  
Biopharma Solutions:  
Tools & Technologies



**Daniel Grushkin**  
Biodesign Challenge  
Biodesign



**Georgia Lagoudas**  
Former White House Office  
of Science and Technology Policy  
Bioeconomy & Policy



**Alex Colville**  
age1  
Longevity



**Mike Kamdar**  
SynBio Consultants  
Reading, Writing & Editing DNA



**Amanda Cashin**  
Startup Advisor  
Capital Markets



**Jake Glanville**  
Centivax  
Engineered Human Therapies



**Ginger Dosier**  
Biomason  
Chemicals & Materials



**Chris Udall**  
gener8tor  
Space Exploration



**Stephanie Michelsen**  
Jellatech  
Food & Agriculture



**Shannon Hall**  
Pow.Bio  
Biomanufacturing Scale Up



**Kit McDonnell**  
LanzaTech  
Climate Tech & Environment



**Alfred Brown**  
DeSci London | SynBioBeta  
DeSci - Decentralized Science



**Amy Kruse**  
Satori Neuro  
Neurotech



May 6-9, 2024 - San Jose Convention Center, California

# Agenda by Day

As of May 3, Subject to Change

## Human Health

Engineered Human Therapies | Biopharma: Tools & Technologies  
Neurotech | Psychedelics | Longevity

## Tools & Technology

AI & Digital Biology | Biomanufacturing Scale-Up | Reading, Writing & Editing DNA

## Planetary Health

Climate Tech & Environment | Chemicals & Materials | Food & Agriculture | Space Exploration

## Business of Biology & Society

Capital Markets | Bioeconomy & Policy | DeSci - Decentralized Science  
Biodesign | Biosecurity & Bioethics | Consumer Products

## Pre Conference

Mon, May 6, 2024



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Time	Location	Description
8am-7pm	Concourse	Registration Open
1-5pm	210A	Introduction to Synthetic Biology Alfred Brown, SynBioBeta
5-6:30pm	East Market Terrace	New Attendee Welcome Reception

# Day 1

Tues, May 7, 2024



THE GLOBAL  
SYNTHETIC BIOLOGY  
CONFERENCE

As of May 3, 2024, Subject to Change

Time	Location	Description
8:30am		<b>Main Stage</b>
8:30am	Welcome	<b>John Cumbers, SynBioBeta</b>
8:40-9am	Panel	<b>Interstellar Humans: Engineering Biology for Space Settlement</b> Kate Rubins, NASA   Chris Mason, Cornell University   Ivan R Jaubert, SynBioBeta
9-9:05am	Spotlight Talk	<b>Biocomputers: Transforming Our Work with Smarter Biology</b> Haotian Guo, Ailurus
9:05-9:50am	Panel	<b>From Complexity to Commercialization: The DNA Synthesis Saga Continues</b> Emily Leproust, Twist Bioscience   Larry Stambaugh, Molecular Assemblies, Inc.   Thomas Ybert, DNA Script   Julianna LeMieux, Genetic Engineering & Biotechnology News   Matthew Hill, Elegen Bio   Jodi Barrientos, Ribbon Biolabs   Jason Gammack, Ansa Bio
9:50-9:55am	Spotlight Talk	<b>From AI Hallucinations to Standardized Biomachines: The Solution for Generative Biology</b> Chengwei Luo, Quantum Sky
9:55-10am	Spotlight Talk	<b>Unlocking Possibility: Leveraging AI to Accelerate Novel Protein Solutions that Scale</b> Jasmin Hume, Shiru
10-10:30am		<b>Coffee Break   Exhibit Hall</b>
10am-7pm		<b>Exhibit Hall and Poster Sessions   Exhibit Hall</b>





Time	Location	Description				
10:30am		<b>Main Stage</b>				
10:30-11am	Fireside Chat	<b>Conscious Convergence: Melding Mycology, Biotech, and the Philosophy of Interconnectedness</b> Paul Stamets, Fungi Perfecti   Martine Rothblatt, United Therapeutics Corp				
11-11:45am	Lightning Talks	<b>The Sequencing Launchpad for the Microbe-Powered Bioeconomy</b> Yuji Suzuki, bitBiome	<b>Scaling Synbio Products: Know Your Road to Market</b> Kris Chatrathi, Black & Veatch	<b>Harnessing Nature: The Power of Molecular Farming to Revolutionize Our Food System</b> Alan Berry, Elo Life Systems	<b>Synthetic Biology vs Antibiotic Resistance: New Allies in an Age-Old Battle</b> Kentaro Hayashi, Synplogen	<b>Breaking the SynBio Bottleneck: Ultra-High Throughput Sequencing for Synthetic Biology Discovery</b> Jack Leonard, seqWell
		<b>Gene Synthesis: The Workflow Risks You Didn't Know You Needed to Know</b> Michael Cannieux, DNA Script	<b>Driving Sustainable Change Through SynBio Research and Innovation</b> Erkka Seraste, VTT	<b>Managing Risks and Defining Unknowns When Releasing Genetically Engineered Microbes</b> Bentley Shuster, ZBiotics	<b>Engineering Biology with Unified CAD: Introducing Kernel</b> Kevin LeShane, Lattice Automation	<b>Unlocking the Biological Complexity of Skin and Hair for Next-Gen Consumers</b> Johnny Cordiner, PhenoDynamics
11:45-12:05pm	Fireside Chat	<b>The Scale-Cost Paradox: Navigating Biomanufacturing's Biggest Challenge</b> Jean-Francois Bobier, Boston Consulting Group (BCG)   Joshua Lachter, Synonym				
12:05-12:15pm	Spotlight Talk	<b>Expand Your Design Space: Ask Bigger Questions with Complex DNA Synthesis Service</b> Jason Gammack, Ansa Bio				
12:15-1:30pm		<b>Lunch Break</b>				
12:15-1:30pm	Various	<b>Conference Lunch Networking Hub</b>	<b>Investors Luncheon   Invite Only (Grand Ballroom)</b> Presented by Cowen, Mayfield, and Build Your Future - Australia	<b>Press Conference   Invite Only</b> 12:45-1:30pm		
12:15-1:00pm	Lunch & Learns Various	<b>Ranger Technology Accelerates Genetic Engineering Workflows</b> Jacqueline Pierce, Yourgene Health	<b>Harnessing Synthetic Biology to Increase Nutrient Density</b> Adam Drewnowski, Center for Public Health Nutrition   Weslee Glenn, Ayana Bio   Maricel Saenz, Compound Foods	<b>Code to Strand: Transforming Your Digital Sequences into Pristine Synthetic DNA</b> Lukas Leiendecker, Ribbon Biolabs   Patrick Sykala, Ribbon Biolabs		



Time	Location	Description			
1:45-2:30pm		<b>Parallel, Breakout Sessions &amp; Workshops</b>			
	<b>Parallel Main Stage</b>	<p><b>Accelerating Revolution in Biotech and BioPharma: The Power of Precision Mutant Libraries</b> Cedric Wu, GenScript USA Inc   Possu Huang, Stanford University   Xing Gao, GenScript USA Inc   Audrey Robic, Allozymes Pte Ltd</p>			
	<b>Breakout Sessions &amp; Workshops</b>	<p><b>Next Frontiers in Nucleic Acid Medicines and Protein Folding: Unleashing a New Class of Therapeutics</b> Chris Gregg, GRO Biosciences   Bharath Takulapalli, SPOC Proteomics   Raik Grünberg, KAUST-King Abdullah University of Science and Technology   Ian Edvalson, Wilson Sonsini   Taleen Afeyan   Bharath Takulapalli, SPOC Proteomics</p>	<p><b>New Funding Models for Scientific Breakthroughs</b> Vega Shah, Benchling   Seemay Chou, Arcadia Science   Sam Rodrigues, FutureHouse   Chris Raggio, Federov</p>	<p><b>Scaling Biological Solution Capacity</b> Edward Shenderowich, Synonym   Sang Yup Lee, KAIST (Korea Advanced Institute of Science and Technology)   Andy Bass, Popular Biology   Grant Aarons, FabricNano   Elliot Hershberg, Not Boring   Michelle Ruiz, Hyfé</p>	<p><b>SynBio-Enhanced Supply Chain Security: Feedstocks and Distributed Manufacturing for Global Climate Resilience</b> Alinta Furnell, SynBiote   Elizabeth Onderko, Capra Biosciences   Julianna LeMieux, Genetic Engineering &amp; Biotechnology News   Rusty Pittman, DMC Biotechnologies   Jonathan Bester, Peptobiotics   Noah Helman, iMicrobes   Vineet Rajgarhia, Erg Bio</p>
		<p><b>Fermentation Frontiers: A Dialogue with Visionary Biotech Entrepreneurs</b> Isabella Iglesias-Musachio, Bosque Foods   James Petrie, Nourish   Casey Lippmeier, Conagen Ingredients   Ivan R. Jaubert, SynBioBeta   Joni Symon, De Novo Foods   Tzu-Chieh (Zijay) Tang, Anthology</p>	<p><b>Living the Code: Gene Synthesis Impacts Beyond the Lab</b> Madoo Varma, DNAScript   Joe Hedley, NunaBio Limited   Steve Riedmuller, Neochromosome</p>	<p><b>Biomachines Beyond Nature: How Can We Make Molecules Precisely Tailored to Our Needs?</b> Alec Nielsen, Asimov   Chengwei Luo, Quantum Sky   Jake Wintermute, Ginkgo Bioworks   Ola Wlodek, Constructive Bio   Sandy Li, BioMap</p>	<p><b>Psilocybin: The Science, the Art, and the Medicine</b> Pamela Kryskow, MycoMedia Life Sciences; University of British Columbia   Paul Stamets, Fungi Perfecti   John Cumbers, SynBioBeta</p>
		<p><b>Revolutionizing Science: Exploring Automated Labs and AI Integration</b> Stephen Wolfram, Wolfram Research   Brian Frezza, Emerald Cloud Lab</p>	<p><b>SynBio + Small Molecules: A Best of Both Worlds?</b> Jaclyn Greimann, Beckman Coulter Life Sciences   Rabia Khan, Serna Bio   Kristy Hawkins, Antheia   Dawn Thompson, Empress Therapeutics</p>	<p><b>Revolutionizing Protein Manufacturing with Cell-Free Protein Synthesis</b> Michael Jewett, Stanford University   Takashi Ebihara, GeneFrontier Corporation   Michael Chen, Nuclera</p> <p><i>Workshop</i></p>	<p><b>Feeding the World E-fish-iently One Krill Replacement at a Time</b> Christopher Oakes, Reefgen Inc.   David Tze, NovoNutrients   Stefanie Lobnig, Aquanzo   Larry Feinberg, KnipBio</p>
		<p><b>Leveraging the UK's Trifecta Value-Chain: Academia, Industry, and Government</b> Linda Bedenik, The BioIndustry Association   Chris Meaney, Green Bioactives   Paul Freemont, Imperial College London   Izzy Webb, UK Department for Science, Innovation and Technology   Michael Adeogun, National Physical Laboratory</p>			

Time	Location	Description
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2:45-3:30pm

## Parallel, Breakout Sessions & Workshops

<p><b>Parallel Main Stage</b></p>	<p><b>Can Synthetic Biology Heal Exponential Climate Change?</b> Tom Baruch, Baruch Future Ventures   Charlie Dimmler, Checkerspot, Inc.   Josh Silverman, Windfall Bio   August Fern, Baruch Future Ventures</p>			
<p><b>Breakout Sessions &amp; Workshops</b></p>	<p><b>Engineering Biology Metrics and Technical Standards for the Global Bioeconomy</b> Paul Freemont, Imperial College London   India Hook-Barnard, Engineering Biology Research Consortium   Cynthia Ni, EBRC   Sheng Lin-Gibson, NIST</p>	<p><b>Crossing Chasms with Creative Capital</b> Mary Maxon, Schmidt Sciences   Douglas Friedman, BioMADE   Klaus Skaalum Lassen, Novozymes   Ginger Dosier, Biomason   Chris Kaminker</p>	<p><b>Bioremediation and Biorecycling for the Circular Economy</b> Nicole Richards, Allonnia   Molly Morse, Mango Materials   Moji Karimi, Cemvita   Joshua Haslun, Lux Research   Kit McDonnell, LanzaTech   Eben Bayer, Ecovative</p>	<p><b>The Space Bioeconomy: From Concept to Commerce</b> Elizabeth Reynolds, Starburst Aerospace   Kenneth Shields, Sierra Space   Rob Carlson, Planetary Technologies   Gwyneth Hutchinson, NASA Center for the Utilization of Biological Engineering in Space   Heath Mills, Rhodium Scientific</p>
	<p><b>Gut Instincts: Decoding the Brain-Microbiome Dialogue</b> Nichol Bradford, NIREMIA Collective   Andrew Bartko, University of California, San Diego   Philip Standwitz, Holobiome</p>	<p><b>Commercialization Unlocked: How to Overcome Synbio's Core Scale-Up and Manufacturing Challenges</b> Alex Patist, Geltor, Inc.   Hendrik Waegeman, Bio Base Europe Pilot Plant   Fiona Mischel, SynBioBeta   Aletta Schnitzler, TurtleTree</p>	<p><b>Will It Soon Be Possible to Reprogram Aging?</b> Jamie Metztl, One Shared World   Joe Betts-Lacroix, Retro   Lada Nuzhna, Impetus Grants   Martin Borch Jensen, Gordion Bio</p>	<p><b>Undruggable Targets and the Advent of Generative AI - Finding New Small Molecule Targets to Difficult to Reach Pockets</b> Daniel Acker, Metaphore Biotechnologies   Doug Chapnick, BioLoomics   Sabrina Yang, Empress Therapeutics, Flagship Pioneering   Timothy Craven, Insamo   Dana Watt, Breakout Ventures   Michael Baran, Pfizer Ventures</p>
	<p><b>Collaboration Across the Value Chain to Launch Bio-based Products</b> Ena Cratsenburg, Ginkgo Bioworks   Eric Steen, Lygos   Amy Trejo, P&amp;G</p>	<p><b>Embrace Complexity: Insights from the Cutting Edge of Enzymatic DNA Synthesis</b> Jaymin Patel, UC Berkeley   Jeremiah Hanes, Ansa Biotechnologies   Greg Lohman, New England Biolabs   Tae Seok Moon, Engineering Biology Research Consortium   Olga Bielska, Buck Institute for Research on Aging</p>	<p><b>Navigating the Financial Landscape of Synthetic Biology: From Seed to IPO</b> Steven Mah, TD Securities   Mark Bunger, Futurity Systems   Amanda Cashin, Wilson Hill Ventures   Chris Hoppe, General Inception   Stephanie Marrus, UCSF</p>	<p><b>How Biotech Shapes Society—Artists and Designers Show Us</b> Charlotte McCurdy, Stanford University, d.school   Elizabeth Henaff, NYU Tandon School of Engineering   Ryan Hoover, Maryland Institute College of Art   Heather Dewey-Hagborg, Heather Dewey-Hagborg Studio   Sue Huang, UConn Digital Media and Design</p>
	<p><b>Building Biomanufacturing in Today's Financial Market</b> Zak Weston, BERA   Mark Warner, Liberation Labs   Matt Gibson, New Culture   Laura Turner, Agronomics</p>	<p><b>Opportunities to Accelerate SynBio Applications in the Bioeconomy</b> David Tennenhouse, NSF   Waleed Nasser, National Science Foundation   Dan Lin-Arlow, Ansa Biotechnologies   Kasia Gora, SciFi Foods</p> <p>Workshop</p>		

# Day 1

Tues, May 7, 2024



THE GLOBAL  
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Time	Location	Description
3:30-4pm		Coffee Break   Exhibit Hall
4pm		Main Stage
4:05-4:35pm	Fireside Chat	<b>The AI + Bio Tour!</b> Stephen Wolfram, Wolfram Research   Stephen Quake, Chan Zuckerberg Biohub Network   Moira Gunn, University of San Francisco
4:35-4:55pm	Fireside Chat	<b>Crafting Cures: How Synthetic Biology Personalizes Precision Medicine</b> Larry Stambaugh, Molecular Assemblies, Inc.   Maria Soloveychik, SyntheX
4:55-5:25pm	Panel	<b>From Lab to Table: Navigating the Future of Cellular Agriculture</b> Neta Lavon, Aleph Farms   Lou Cooperhouse, BlueNalu, Inc.   Max Jamilly, Hoxton Farms   Benjamina Bollag, Uncommon Bio   Daan Luining, Meatable   Elaine Watson, AgFunderNews
5:25-5:55pm	Fireside Chat	<b>The DNA Discovery Tour</b> Linda Avey, Humain Ventures, Founder of 23andMe   Craig Venter, JCVI
6pm		Networking Events
6-7pm	Exhibit Hall	<b>Exhibit Hall Reception</b> <b>Keynote Book Signings, Bring Your Book!</b> <ul style="list-style-type: none"><li>• Stephen Wolfram, Booth 503</li><li>• Craig Venter, Booth 219</li><li>• Paul Stamets, Booth 619</li></ul>
7-9pm	Lower Level, The Hub	<b>Welcome Party</b>
9-10pm	East, Market Terrace	<b>Poetry Slam</b> Hosted by Martine Rothblatt & John Cumbers



Time	Location	Description
6:30-7:30am		Wellness 5k Walk /Run   Lower Level, The Hub
7-8:15am	Grand Ballrooms	<p><b>Startup &amp; Investor Breakfast   Invite Only</b></p> <p><b>Marketing &amp; Messaging Breakfast   Invite Only</b> Ben Kellogg, Bunsen   Grace Chuang, Grace Chuang Creative   Erin Kim, Erin Kim Consulting   Andy Bass, Popular Biology   Christiana Agapakis, Ginkgo Bioworks</p>
8:30am		Main Stage
8:30am	Welcome	John Cumbers, SynBioBeta
8:35-9am	Keynote	The Role of Synthetic Biology in Promoting Health and Sustainability Sang Yup Lee, KAIST (Korea Advanced Institute of Science and Technology)
9-9:05am	Spotlight Talk	The Future For Biosolutions in the Energy Transition Moji Karimi, Cemvita
9:05-9:35am	Panel	Navigating the Investment Ecosystem: De-risking SynBio Ventures for Trend-Savvy Investors Ursheet Parikh, Mayfield Fund   Jenny Rooke, Genoa Ventures   Omri Amirav-Drory, NFX   Packy McCormick, Not Boring   Brigid O'Brien, Managing Partner
9:35-10am	Fireside Chat	AI and SynBio: The New Paradigm in Drug Discovery Sean McClain, Absci   Charles Roberts, ARK
10-10:30am		Coffee Break   Exhibit Hall
10am-7pm		Exhibit Hall and Poster Sessions Open   Exhibit Hall



Time	Location	Description		
10:30am		<b>Main Stage</b>		
10:30-10:55am	Fireside Chat	<b>Ethics, Elixirs, and Enterprises: The Triad of Longevity's Future</b> Vinod Khosla, Khosla Ventures		
10:55-11am	Spotlight Talk	<b>Scaling Highly Engineered Strains to Produce Complex Pharmaceuticals</b> Kristy Hawkins, Antheia		
11-11:45am	Lightning Talks	<b>Reimagining Enzymes for Synthetic Biology with AI-Driven Intelligent Architecture</b> Matthew Thompson, Biomatter	<b>When Will Phenotype Prediction Be a Reality?</b> Jack (J.M.) Geremia, Matterworks	<b>Advanced Synthetic Biology Biofoundries for a Sustainable Future</b> Eunji Kim, CJ CheilJedang
		<b>Rapid Construction of Microbial Cell Factories for High-Value Chemicals Production</b> Jon Brice, Asymchem Inc	<b>AI Augmentation in the Lab: Proteomics, Genomics, Oligo Assembly, and Functional Validation</b> Gurnek Singh, Instadeep	
11-11:45am	Lightning Talks	<b>Seeing Alternative Investors As Bioeconomy Growth Partners</b> Matt Gardner, BioP2P	<b>Shake Flasks are the Industry's New, Accessible Bioreactors</b> Jens Bayer, Scientific Bioprocessing (sbi)	<b>Unlocking Market Solutions for Food-Tech Innovations</b> James Petrie, Nourish Ingredients
		<b>AI-Designed Capsids: Powering a New Age of Genetic Medicine</b> David Brookes, Dyno Therapeutics	<b>Kicking the Petrochemical Ingredients Habit with Synthetic Biology</b> Jens Klein, Insempra GmbH	
11:45am-12:15pm	Panel	<b>Redefining the Bottom Line: Value Creation for Shareholders and the Planet</b> Pae Wu, SOSV's IndieBio   Marc Salit, MITRE Corporation   Tony Jeffries, Wilson Sonsini   Sean O'Sullivan, SOSV   Kristin Ellis, Lowercarbon Capital		
12:15-1:30pm		<b>Lunch Break</b>		
12:15-1:30pm	Various	<b>Conference Lunch Networking Hub</b>	<b>CEO Luncheon   Invite Only   Grand Ballroom</b> Ryan Phelan, Revive and Restore   Drew Endy, Assistant Clerk to the Deputy   Sean O'Sullivan, IndieBio/SOSV	<b>Student Luncheon</b> Shelby Newsad, Compound VC
12:15-1pm	Lunch & Learn	<b>Bioeconomy Scale Up Through Bioprocess Innovation</b> Kris Chatrathi, Black & Veatch	<b>How (and Why) to Make GMOs People Love</b> Zach Abbott, ZBiotics	<b>Early-Access Opportunities to Accelerate Innovation from Academia into Industry</b> Susan Rosser, University of Edinburgh   Filippo Menolascina, CybergenX   Stephen Wallace, University of Edinburgh



Time	Location	Description
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1:45-2:30pm

## Parallel, Breakout Sessions & Workshops

### Parallel | Main Stage

#### Plant Cell Culture: The New Emerging Category in Cellular Agriculture

Jason Kakoyiannis, Ferment | Frank Jaksch, Ayana Bio | Chris Meaney, Green Bioactives | Bob Weinstein, Robertet, Inc. | Bonnie Bryton, Fulcrum Global Capital

### Breakout Sessions & Workshops

#### How to Keep an Organ Alive Outside the Body

Zvonimir Vrselja, Bexorg | Jane Metcalfe, Proto Life | Joydeep Bhadury, Stanford University

#### Rubber, Meet Road: Getting Practical (and Realistic) About Biomanufacturing Scale-Up

Howard Hutton, Procter and Gamble | Mary Maxon, Schmidt Sciences | Adrienne Davenport, BASF Biotechnology Innovation Center | Konrad Miller, Solugen & UC Davis | Hendrik Waegeman, Bio Base Europe Pilot Plant

#### The Arc of Innovation in Generative Protein Design

James Field, LabGenius | Maya Skubatch, Wilson Sonsini | Elise de Reus, Cradle | Kathy Wei, 310 AI

#### Foundation Models for Bio

Boris Power, OpenAI | Kooshiar Azimian, 310 AI | Will Connell, Vevo Therapeutics

#### Beyond the Bold Goals: Turning the Vision for the Bioeconomy Into Reality

Carrie Wolinetz, Lewis-Burke Associates LLC | Joe Buccina, National Security Commissions on Emerging Biotechnology | Brooke Coleman, Advanced Biofuels Business Council | Claudia Schmidt Dannert, Biotechnology Institute

#### The Role of Biodesign in the Next Gen Synbio

Natsai Chieza, Faber Futures | Orkan Telhan, Ecovative | Dan Grushkin, Biodesign Challenge

#### Achieving Critical Mass in Synthetic Biology Adoption

Charles Dimmler, Checkerspot, Inc. | Karl Schmider, MessagingLab | Christina Agapakis, Ginkgo Bioworks | Ginger Dosier, Biomason | Angel Franco, H.E.L. Group | Luna Yu, Genecis Bioindustries

#### Achieving the Genetic Design Moonshot

Erika Alden DeBenedictis, Francis Crick Institute | Niko McCarty, Asimov Press | Tessa Alexanian, IBBIS | Alec Nielsen, Asimov

#### BioNet: Creating a Distributed SynBio Ecosystem for Everyone

Marc Salit, MITRE Corporation | Sasha Levy, BacStitch DNA, Inc. | Amanda Kohler, Tyralla Consulting LLC | Nathan Hillson, Lawrence Berkeley National Lab

#### Building Community in Synthetic Biology

Daniel Hussey, ValleyDAO | Seemay Chou, Arcadia Science | Dorothy Zhang, iGEM Competition | Alfred Brown, SynBioBeta, DeSci London

#### Smart Shake Flasks: Meet SynBio's New Development and Scale-up Workhorse

Jens Bayer, Scientific Processiong (sbi) | John Nicols, Oranicols | Jared Trefz, SBI

#### How Startups and Corporates Can Partner Together to Bring Synthetic Biology to Scale

John Paschkewitz, Boston Consulting Group | Adam Jones, L'Oreal | Gwen Servant, Abolis Biotechnologies | Kadie Burton, Debut

#### Getting Hands On to Democratize Biofoundries: Lab Data as a Service

Michal Jastrzebski, Ginkgo Bioworks | Jake Wintermute, Ginkgo Bioworks





Time	Location	Description			
2:45-3:30pm		<b>Parallel, Breakout Sessions &amp; Workshops</b>			
	<p><b>Parallel Main Stage</b></p>	<p><b>The Road to Autonomy: Evaluating the Current Landscape of Self-Driving Labs</b> Peter Peumans, imec   Erik Crawford, imec   Barry Meriman, Roswell Biotechnologies   Anna Marie Wagner, Ginkgo Bioworks   Tijana Radivojevic, Altos Labs</p>			
<p><b>Breakout Sessions &amp; Workshops</b></p>	<p><b>Revolutionizing Industrial Biotech: Harnessing the Power of AI for Enhanced Efficiency, Innovation, and Sustainable Solutions</b> Rita Cruz, Ingenza Ltd   Konrad Miller, Solugen &amp; UC Davis   Anna Marie Wagner, Ginkgo Bioworks   Christiana Agapakis, Ginkgo Bioworks   Mark Stuczynski, Solugen   Ori Zakin, BioRaptor</p>	<p><b>AI-Driven Revolutions in Protein Engineering: Pioneering the Next Wave of Biotech</b> Sarah Alamdari, Microsoft Research   Ron Boger, Compound   Sean McClain, Absci   Luis Cascão Pereira, International Flavors &amp; Fragrances</p>	<p><b>AI &amp; Digital Twins in Biomanufacturing: A New Horizon</b> Darren Platt, Montage Bio   Deepti Tanjore   Ouwei Wang, Pow.Bio   Richard Vellacot, BiologIC Technologies   Jessie Lou, Homeworld Collective</p>	<p><b>Innovation Nation: Overcoming the UK's Investment Roadblocks to Build the Next Big Bioeconomy</b> Richard Kitney, Imperial College London/SynbiCITE   Rob Carlson, Planetary Technologies   Karl Handelsman, Codon Capital   Fiona Mischel, SynBioBeta   Mary McCarthy, Sofinnova Partners</p>	
	<p><b>The Next Generation (Z) of Startup Entrepreneurship</b> Michela Caffrey, Geltor   Erin Kim, Erin Kim Consulting   Elliott Roth, Deep Science Ventures   Meera Zassenhaus, New Harvest</p>	<p><b>Solving the Nitrogen Dilemma for Next-Gen Farming</b> Jason Pontin, DCVC   Karsten Temme, Pivot Bio</p>	<p><b>Hands On, High-T: Global Launch of End-to-End High-Throughput Process Development Platform</b> Yuanting Wu, T&amp;J</p>	<p><b>Expanding the US Bioeconomy: Federal Progress on the U.S. National Biotechnology and Biomanufacturing Initiative</b> Sarah Glaven, White House Office of Science and Technology Policy   Georgia Lagoudas, Former White House Office of Science and Technology Policy   Greg Jaffee, US Dept of Agriculture   Valerie Sarisky-Reed, Dept of Energy</p>	
	<p><b>Creating New Biomanufacturing Opportunities by Optimizing Cell-to-Cell Variations in Bioreactors</b> Kirsten Benjamin, Pivot Bio   Adam Burja, dsm-firmenich   Jay Keasling, University of California, Berkeley   Peter Rugbjerg, Enduro Genetics</p>	<p><b>Harnessing Nature's Molecules: How Synbio in Plants Can Fix Our Broken Food System</b> Magi Richani, Nobell Foods   Elaine Watson, AgFunderNews   John Hammer, DCVC   Alan Berry, Elo Life</p>	<p><b>Fully Enzymatic Synthesis: Unlocking Synthetic Biology's Potential</b> Phil Paik, Molecular Assemblies</p>	<p><b>The New Biomaterials Innovators</b> Aleksandra Gosiewski, Keel Labs   Chui-Lian Lee, Werewool   Aleksandra Gosiewski, Keel Labs   Jen Keane, Modern Synthesis   Ross McBee, TomTex Co   Sara Nejad, New York University</p>	
	<p><b>Accelerating the Bioeconomy: The World Economic Forum's Pursuit to Scale Biosolutions</b> Jane Franch, Pivot Bio   Kimmy Bettinger, World Economic Forum   Richard Traherne, Capgemini Invent   Cassandra Padbury, Capgemini</p>	<p><b>Biosecurity in DNA Synthesis: Establishing Screening Standards</b> Jacob Beal, Raytheon BBN   Nicole Wheeler, University of Birmingham   Sarah Carter, Science Policy Consulting LLC   Kevin Flyangolts, Aclid</p>	<p><b>AI and Automation: Accelerating the Creation and Growth of New SynBio Companies</b> Shelby Newsad, Compound   Sridhar Iyengar, Elemental Machines   Barbara Belvisi, Interstellar Lab   Jake Wintermute, Ginkgo Bioworks</p>		



Time	Location	Description
3:30-4pm		Coffee Break   Exhibit Hall
4pm		Main Stage
4:05-4:35pm	Keynote	The Molecular Engines of Metabolism   Drew Berry, Animator, wehi.tv
4:35-4:45pm	Spotlight Talk	Heads Up, Scale Up: The Hidden Costs of Outsourcing Bioprocess Development   Bruce Li, TJX Bioengineering
4:45-4:55pm	Spotlight Talk	Engineering a Sustainable Economy   Arvind Gupta, Mayfield
4:55-5pm	Spotlight Talk	Bringing Cultivated Meat to Scale through Speed and Efficiency   Daan Luining, Meatable
5-5:20pm	Fireside Chat	Medicine on Demand: Reimagining Drug Development Through Oligo Innovation Jason Pontin, DCVC   Christopher Hart, Creyon Bio
5:20-5:25pm	Spotlight Talk	Direct Air Capture: Enzymatically Accelerated Rock Weathering Klaus Skaalum Lassen, Novonosis
5:25-5:55pm	Panel	Biotech Innovations in Feed and Agriculture for a Brighter Future Jon Entine, Genetic Literacy Project   Brad Ringeisen, Innovative Genomics Institute   Artun Sukan, Uncommon Bio   Julia Stevens, Bayer Crop Science   Ian Miller, Pairwise   Shely Aronov, InnerPlant
6pm		Networking Events
6-7pm	Exhibit Hall	Exhibit Hall Reception
7-8:30pm	Various	Birds of a Feather Events, Concourse: Biopharma Solutions: Tools & Tech   Food & Agriculture   Chemicals & Materials   Desci - Decentralized Science   DNA Synthesis   Consumer Products   SynBio in UK   BioDesign at the Tech Institute



Time	Location	Description
6:30-7:30am	Wellness Meditation   Lower Level, The Hub	
7-8:15am	Grand Ballrooms	<p><b>Senior Tech Leadership Breakfast   Invite Only</b></p> <p><b>On the Edge of Foundation Models in Biology</b> Shelby Newsad, Compound VC   Sean McClain, Absci   Alex Rives, Evolutionary Scale   Chloe Hsu, Stealth company   Nikhil Haas, BioLM</p> <p><b>Early Stage Founders Breakfast   Invite Only</b></p>
8:30am	Main Stage	
8:30am	Welcome	John Cumbers, SynBioBeta
8:35-8:50am	Keynote	<p><b>Unraveling the Language of Life: Advances in Protein Language Models</b> Alex Rives, Evolutionary Scale</p>
8:50-9:05am	Keynote	<p><b>Bridging Biology and AI for Genome Design</b> Patrick Hsu, Arc Institute</p>
9:05-9:35am	Panel	<p><b>The Exit Strategy: Acquisition for Consumer Biotech Companies</b> Suveen Sahib, K18   Steve Weiss, Grey Heron   Erin Kim, Erin Kim Consulting</p>
9:35-9:40am	Spotlight Talk	<p><b>Build a Better Tomorrow with Sustainable Synthetic Biology Workflow Solutions</b> Jaclyn Greimann, Beckman Coulter Life Sciences</p>
9:40-10am	Fireside Chat	<p><b>The Perfect Recipe: Bringing Together the Ingredients of AI for Bio</b> Anna Marie Wagner, Ginkgo Bioworks   Rory Kelleher, NVIDIA</p>
10-10:30am	Coffee Break   Exhibit Hall	
10am-4pm	Exhibit Hall and Poster Sessions Open   Exhibit Hall	

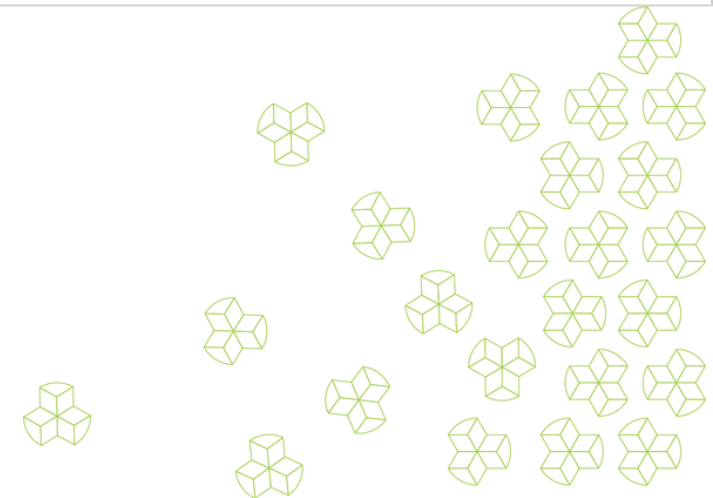




Time	Location	Description
10:30am		<b>Main Stage</b>
10:30-10:50am	Keynote	<b>The Problem is \$522M and 13 Years</b> Mary Lou Jepsen, Open Water
10:50-11:10am	Fireside Chat	<b>Revolution 'Down Under': How to Realize a \$30 Billion Opportunity</b> Robert Speight, Commonwealth Scientific and Industrial Research Organisation (CSIRO)   Michele Stansfield, Cauldron
11:10-11:25		<b>The Global Synthetics Biology Awards</b>
11:25-11:45	Lightning Talk	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>Advancing Gene Therapy Beyond Genetic Diseases</b> Martin Borch Jensen, Gordian Bio</p> </div> <div style="width: 30%;"> <p><b>h-VIOS: A Human-elevaRnt Drug Discovery and Development Platform Using Bioprinted Tissue</b></p> </div> <div style="width: 30%;"> <p><b>Presented by Alinta Furnell, Synbiote</b></p> </div> </div>
11:45am-12:15pm	Panel	<b>Biomufacturing Breakdown: Lessons Learned from Scale-Up Failures and Successes</b> John Nicols, Organicols   Shannon Hall, Pow.Bio   Ali Wing, Oobli   Michael Tai, Boston Bioprocess   Richard Kenny, Hawkwood Biotech Partners
12:15-1:30pm		<b>Lunch Break</b>
12:15-1:30pm	Various	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Conference Lunch (Networking Hub)</b></p> </div> <div style="width: 45%;"> <p><b>Women's Luncheon   Invite Only</b> <b>Women in Synbio in 2024: Staying Connected When Our Bandwidths are So Limited</b> Surbhi Sarna, Y Combinator   Fiona Mischel, SynBioBeta   Natsai Chieza, Faber Futures</p> </div> </div>
12:15-1:00pm	Lunch & Learn	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>Generative AI is Not Enough: Bridging In-Silico to Impact—Where Hype Faces Reality</b> Neil Thomas, Stealth Startup   Kathy Lin, Dyno Therapeutics   Stephen Malina, Dyno Therapeutics</p> </div> <div style="width: 35%;"> <p><b>Lunch &amp; Learn Presented by NSCEB</b></p> </div> </div>



Time	Location	Description
1:45-2:30pm		<b>Parallel, Breakout Sessions &amp; Workshops</b>
<b>Parallel Main Stage</b>		<b>Seeking Regulatory Approval for GEMs: Building up the Science Base for Informed Decision-Making</b> Hannah Boardman, DSIT   Andrea Hodgson, Schmidt Sciences   Yonatan Chemla, MIT   Nik Evitt, Switch Bioworks
<b>Breakout Sessions</b>		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>Mindful Molecules: Synthesizing New Hope in Psychedelic Therapies</b> Andrew Jones, Miami University   Nikita Obidin, Arcadia Medicine   Amy Kruse, Satori Neuro</p> </div> <div style="width: 30%;"> <p><b>Sustainable Harvests, Sustainable Returns: A Panel of Investors Betting on the Future of Food</b> Fengru Lin, Turtletree   David Welch, Synthesis Capital   Tara Burkley, Berry Strategy   Manuel Gonzalez, AgFunder   Ryan Bethencourt, Wild Earth</p> </div> <div style="width: 30%;"> <p><b>DNA Synthesis and Biosecurity: A New U.S. Government Framework</b> James Diggans, Twist Bioscience   Sheng Lin-Gibson, NIST   Piers Millett, IBBIS   Jaime Yassif, NTI   bio   Sarah Carter, Science Policy Consulting LLC   Isabel Bennett</p> </div> </div>
		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>Scale-up! Industrial-Scale Biomanufacturing to Unlock the Defossilization Potential of SynBio</b> Eric van der Meer, DAB.bio   Sasha Calder, Geno   Isabel Zhang, HCVC   Daniel Bergman, Synonym   Jose Carlos Garcia-Garcia, Procter &amp; Gamble</p> </div> <div style="width: 30%;"> <p><b>Advancements in On-Chip Droplet Sorting Precision Technology in Synthetic Biology</b> Tammy Joska, Thrive Bioscience   Nobuyuki Homma, On-chip Biotechnologies</p> <p>Workshop</p> </div> <div style="width: 30%;"> <p><b>LLMs, Sequences, and Solutions: Harnessing Nucleotide Transformer Models in Genomics</b> Gurnek Singh, Instadeep   Evan Trop, Instadeep</p> </div> <div style="width: 30%;"> <p><b>Rapid Enzyme Expression Using A Novel Extracellular Technology</b> Xuecheng Jiao, Asymchem</p> </div> </div>
		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>Advancing Drug Discovery &amp; Screening: AI, Cell Line Development, and Protein Expression</b> Salima Ismayilova, Collaborative Drug Discovery   Jake Lesnik, Mekonos   Daniel Georgiev, Sampling Human   Ethan Perlstein, Perlara PBC   Arash Rafii, ScieNFT</p> </div> <div style="width: 30%;"> <p><b>Building Bridges: SynBio Communities Worldwide</b> Jan Kalkowski, German Association for Synthetic Biology   Daniel Dominguez Gomez, Allbiotech   Gracie To, Conference of China iGEMer Community   Cibebe Zolnier, SynBioBR   Sakti Subramanian, Great Lakes SynBio</p> </div> <div style="width: 30%;"> <p><b>Funding What You Wear: Pioneering Pathways to Get Sustainable, Everyday Goods to Market</b> Taehong Huh, GS Futures   Richard Kenny, Hawkwood Biotech Partners   Harshal Chokhawala, ZymoChem   Kelsey Weimer, Synonym Biotechnologies   Kristen Barton, Mango Materials</p> </div> </div>



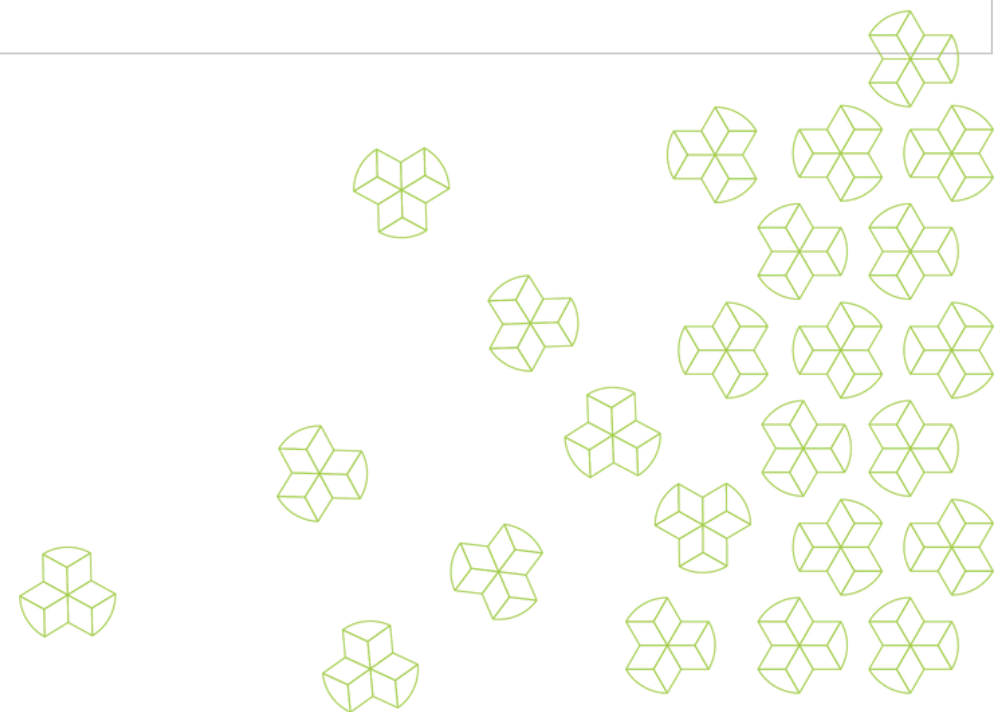


Time	Location	Description			
2:45-3:30pm		<b>Parallel, Breakout Sessions &amp; Workshops</b>			
	Parallel	<p><b>Functional Genomics for Target Identification: Successes, Challenges, and New Opportunities</b>            Timothy Smith, bit.bio   Tilmann Buerckstuemmer, Myllia Biotechnology   Chris Hempel, SparkPR   Martin Jacko, Aperture Therapeutics</p>			
	Breakout Sessions	<p><b>Energizing the Brain: Emerging Technologies in Neurostimulation</b>            Jacob Robinson, Motif Neurotech   Mary Lou Jepsen, Openwater   Amy Kruse, General Partner &amp; Chief Investment Officer   Don Vaughn, Ampa</p>	<p><b>DNA Firewall: Progress and Prospects For a Nucleic Acid Screening Test Set</b>            Jacob Beal, RTX BBN Technologies   Kevin Flyangolts, Aclid   Craig Bartling, Battelle (Memorial Institute)   Sheng Lin-Gibson, NIST   Nicole Wheeler, University of Birmingham</p>	<p><b>Nourishing Life Beyond Earth: Integrating Space Agriculture and Medicine</b>            Barbara Belvisi, Interstellar Lab   Neil Lamb, HudsonAlpha   Savi Glowe, BioAstra   Erika Alden DeBenedictis, Francis Crick Institute   Fathi Karouia, NASA</p>	<p><b>Machine Learning-Enabled Optimization of Continuous Biomanufacturing Processes</b>            Ouwei Wang, Pow.Bio</p>
		<p><b>Uncharted Territory: Filling Regulatory Gaps with Voluntary Frameworks</b>            Leah Buchman, Biotechnology Innovation Organization   Zack Abbott, ZBiotics   Sarah Carter, Science Policy Consulting LLC   Anastasia Bodnar, NSCEB</p>	<p><b>Bridging Biotech: Navigating the Lab-to-Industry Transition</b>            Michele Champagne, Precigen   Simao Soares, SilicoLife   Adam Burja, dsm-firmenich   Kelly Smith, Kalmia Consulting, LLC   Samet Yildirim, Orbillion</p>	<p><b>Function, Meet Form: Engaging Industrial Design for Physical Product-Market Fit</b>            Lucy Chinen, nonfood   Erin Kim, Erin Kim Consulting   Sean Raspet, Simulate   Phnam Bagley, Non Fiction Design   Ali Schachtschneider, Spiber Inc.</p>	<p><b>Robo-coli: Scalable Solutions for High-Throughput Fermentation</b>            Mathew Barker, Watchmaker Genomics</p>
		<p><b>Developing Next-Generation Sensors for Biomanufacturing</b>            Michael Clear, Schmidt Sciences   Deepti Tanjore, Berkeley Lab   Rabia Yazicigil, Boston University   Herb Ryan, Ginkgo Bioworks   Chong Wing Yung, Agilent Technologies</p>	<p><b>Compressing Bits into Atoms: DNA and the Future of Data Storage and Compute</b>            Liesbet Lagae, IMEC   Esther Singer, Twist Bioscience   Ellen Simmons, CATALOG</p>		
3:30-4pm		<b>Coffee Break   Exhibit Hall</b>			





Time	Location	Description
<b>4pm</b>		<b>Main Stage</b>
4-4:05pm	Welcome	<b>Welcome Back with the Mayor of San Jose, Matt Mahan</b>
4:05-4:25	Panel	<b>Programming Human Cells: The Next Frontier of SynBio for Human Health</b> Thomas Sudhof, Nobel Laureate & Professor at Stanford University   John Cumbers, SynBioBeta   Mark Kotter, bit.bio
4:35-4:45pm	Spotlight Talk	<b>Partnering Intelligent Algorithms and Enzymatic DNA Assembly to Accelerate the Future of Synthetic Biology</b> Jodi Barrientos, Ribbon Biolabs
4:45-5:15pm	Panel	<b>Gene Meets Cell: The SynBio Evolution in Targeted Therapeutics</b> Avencia Sanchez-Mejias, Integra Therapeutics   Daniel Georgiev, Sampling Human   Anil Narasimha, Mekonos   Mark Kotter, bit.bio   Meenakshi Prabhune, The Scientist
5:15-5:25pm	Spotlight Talk	<b>Charting Synthetic Biology's Global Futures</b> Megan Palmer, Ginkgo Bioworks
5:25-5:55pm	Fireside Chat	<b>Accelerating Bio R&amp;D with New Funding Models</b> Juan Benet, Protocol Labs   John Cumbers, SynBioBeta





**Exhibit Hall & Poster Sessions**

Tues, May 7  
10am-7pm

Wed, May 8  
10am-7pm

Thurs, May 9  
10am-4pm

