



Biologize the Future

2024 Event Agenda

As of April 23, 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.



	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	Deep Dive Topic Training Workshops	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

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

As of April 23, 2024, Subject to Change



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
Biomufacturing 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 April 19, 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



As of April 23, 2024, Subject to Change

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

Day 1

Tues, May 7, 2024



THE GLOBAL
SYNTHETIC BIOLOGY
CONFERENCE

As of April 23, 2024, Subject to Change

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





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



Time	Location	Description
1:45-2:30pm		Parallel, Breakout Sessions & Workshops
Parallel Main Stage		<p>Accelerating Revolution in Biotech and BioPharma: The Power of Precision Mutant Libraries Cedric Wu, GenScript USA Inc Possu Huang, Stanford University Akbar Vahidi, Allozymes Xing Gao, GenScript USA Inc</p>
Breakout Sessions & Workshops		<p>Next Frontiers in Nucleic Acid Medicines and Protein Folding: Unleashing a New Class of Therapeutics 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>New Funding Models for Scientific Breakthroughs Vega Shah, Benchling Seemay Chou, Arcadia Science Sam Rodrigues, FutureHouse Chris Raggio, Federov</p>
		<p>Scaling Biological Solution Capacity Edward Shenderowich, Synonym Sang Yup Lee, KAIST (Korea Advanced Institute of Science and Technology) Andy Bass, MyForest Foods Grant Aarons, FabricNano</p>
		<p>SynBio-Enhanced Supply Chain Security: Feedstocks and Distributed Manufacturing for Global Climate Resilience Alinta Furnell, SynBiote Elizabeth Onderko, Capra Biosciences Julianna LeMieux, Genetic Engineering & Biotechnology News Rusty Pittman, DMC Biotechnologies</p>
		<p>Fermentation Frontiers: A Dialogue with Visionary Biotech Entrepreneurs Jean Louwrens, De Novo Foodlabs Isabella Iglesias-Musachio, Bosque Foods James Petrie, Nourish Casey Lippmeier, Conagen Ingredients Ivan R. Jaubert, SynBioBeta</p>
		<p>Living the Code: Gene Synthesis Impacts Beyond the Lab Madoo Varma, DNAScript Joe Hedley Steve Riedmuller, Neochromosome</p>
		<p>Biomachines Beyond Nature: How Can We Make Molecules Precisely Tailored to Our Needs? Alec Nielsen, Asimov Chengwei Luo, Quantum Sky Jake Wintermute, Ginkgo Bioworks Ola Wlodek, Constructive Bio Sandy Li, BioMap</p>
		<p>Psilocybin: The Science, the Art, and the Medicine Pamela Kryskow, MycoMedia Life Sciences; University of British Columbia Paul Stamets, Fungi Perfecti John Cumbers, SynBioBeta</p>
		<p>Software Vs. AI Stephen Wolfram, Wolfram Research</p>
		<p>SynBio + Small Molecules: A Best of Both Worlds? Jaclyn Greimann, Beckman Coulter Life Sciences Rabia Khan, Serna Bio Kristy Hawkins, Antheia Sabrina Yang, Empress Therapeutics, Flagship Pioneering</p>
		<p>Revolutionizing Protein Manufacturing with Cell-Free Protein Synthesis Michael Jewett, Stanford University Takashi Ebihara, GeneFrontier Corporation Michael Chen, Nuclera</p> <p><i>Workshop</i></p>
		<p>Feeding the World E-fish-iently One Krill Replacement at a Time Christopher Oakes, Reefgen Inc. David Tze, NovoNutrients Stefanie Lobnig Larry Feinberg</p>



Time	Location	Description			
2:45-3:30pm		Parallel, Breakout Sessions & Workshops			
Parallel Main Stage		Can Synthetic Biology Heal Exponential Climate Change? Tom Baruch, Baruch Future Ventures Charlie Dimmler, Checkerspot, Inc. Josh Silverman, Windfall Bio August Fern, Baruch Future Ventures			
Breakout Sessions & Workshops	Engineering Biology Metrics and Technical Standards for the Global Bioeconomy Paul Freemont, Imperial College London India Hook-Barnard, Engineering Biology Research Consortium Cynthia Ni, EBRC Sheng Lin-Gibson, NIST	Crossing Chasms with Creative Capital Tara Shirvani, Terrain Investing Mary Maxon, Schmidt Sciences Douglas Freidman, BioMADE Klaus Skaalum Lassen, Novozymes John Nicols, Oranicol Ginger Dossier, Biomason	Bioremediation and Biorecycling for the Circular Economy Nicole Richards, Allonnia Molly Morse, Mango Materials Moji Karimi, Cemvita Joshua Haslun, Lux Research Kit McDonnell, LanzaTech	The Space Bioeconomy: From Concept to Commerce Elizabeth Reynolds, Starburst Aerospace Kenneth Shields, Sierra Space Rob Carlson, Planetary Technologies Katherine Clayton, OmniVis Gwyneth Hutchinson, NASA Center for the Utilization of Biological Engineering in Space	
	Gut Instincts: Decoding the Brain-Microbiome Dialogue Nichol Bradford, NIREMIA Collective Andrew Bartko, University of California, San Diego Philip Standwitz, Holobiome	Commercialization Unlocked: How to Overcome Synbio's Core Scale-Up and Manufacturing Challenges Alex Patist, Geltor, Inc. Hendrik Waegeman, Bio Base Europe Pilot Plant Fiona Mischel, SynBioBeta Aletta Schnitzler, TurtleTree	Will It Soon Be Possible to Reprogram Aging? Jamie Metzl, One Shared World Joe Betts-Lacroix, Retro Lada Nuzhna, Impetus Grants Martin Borch Jensen, Gordion Bio	Leveraging the UK's Trifecta Value-Chain: Academia, Industry, and Government Linda Bedenik, The BioIndustry Association Chris Meaney, Green Bioactives Paul Freemont, Imperial College London Izzy Webb, UK Department for Science, Innovation and Technology Mike Adeogun, National Physical Laboratory	
	Undruggable Targets and the Advent of Generative AI - Finding New Small Molecule Targets to Difficult to Reach Pockets Daniel Acker, Metaphore Biotechnologies Doug Chapnick, BioLoomics Sabrina Yang, Empress Therapeutics, Flagship Pioneering Timothy Craven, Insamo Dana Watt	Embrace Complexity: Insights from Ansa's DNA Synthesis Early Access Partners Jaymin Patel, UC Berkeley Jeremiah Haynes, Ansa Biotechnologies Greg Lohman, New England Biolabs Tae Seok Moon, Engineering Biology Research Consortium	Navigating the Financial Landscape of Synthetic Biology: From Seed to IPO Alex Fayette, ACME Capital Steven Mah, TD Securities Mark Bunger, Futurity Systems	How Biotech Shapes Society—Artists and Designers Show Us 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	
	Building Biomanufacturing in Today's Financial Market Zak Weston, BERA Mark Warner, Liberation Labs Matt Gibson, New Culture Laura Turner, Agronomics	Opportunities to Accelerate SynBio Applications in the Bioeconomy (workshop) David Tennenhouse, NSF Waleed Nasser, NSF Dan Lin-Arlow, Ansa Biotechnologies Kasia Gora, SciFi Foods Workshop	Collaboration Across the Value Chain to Launch Bio-based Products Ena Cratsenburg, Ginkgo Bioworks Eric Steen, Lygos Amy Trejo, P&G	Embrace Complexity: Insights from Ansa's DNA Synthesis Early Access Partners 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	

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	The AI + Bio Tour! Stephen Wolfram, Wolfram Research Stephen Quake, Chan Zuckerberg Biohub Network Moira Gunn, NPR
4:35-4:55pm	Fireside Chat	Medicine on Demand: Reimagining Drug Development Through Oligo Innovation Jason Pontin, DCVC Christopher Hart, Creyon Bio
4:55-5:25pm	Panel	From Lab to Table: Navigating the Future of Cellular Agriculture Neta Lavon, Aleph Farms Lou Cooperhouse, BlueNalu, Inc. Max Jamilly, Hoxton Farms Benjamina Bollag, Uncommon Bio Daan Luining, Meatable
5:25-5:55pm	Fireside Chat	The DNA Discovery Tour Linda Avey, Humain Ventures, Founder of 23andMe Craig Venter, JCVI
6pm		Networking Events
6-7pm	Exhibit Hall	Exhibit Hall Reception Keynote Book Signings, Bring Your Book! <ul style="list-style-type: none">Stephen Wolfram, Booth 503Craig Venter, Booth 219Paul Stamets, Booth 619
7-9pm	Lower Level, The Hub	Welcome Party
9-10pm	East, Market Terrace	Poetry Slam Hosted by Martine Rothblatt & John Cumbers



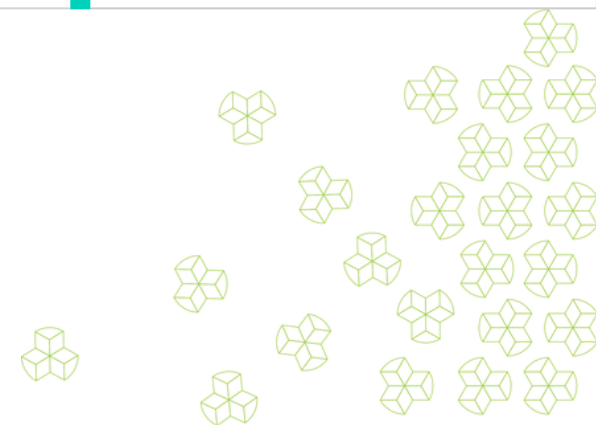
Time	Location	Description
6:30-7:30am		5k Run/Walk Lower Level, The Hub
7-8:15am	Grand Ballrooms	Startup & Investor Breakfast Invite Only
		Marketing & Messaging Breakfast Invite Only
8:30am		Main Stage
8:30am	Welcome	John Cumbers, SynBioBeta
8:35-9am	Keynote	The Role of Synthetic Biology in Promoting 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
9:35-9:55am	Fireside Chat	Presented by Absci
10-10:30am		Coffee Break Exhibit Hall
10am-7pm		Exhibit Hall and Poster Sessions Open Exhibit Hall



Time	Location	Description		
10:30am		Main Stage		
10:30-10:55am	Fireside Chat	Ethics, Elixirs, and Enterprises: The Triad of Longevity's Future Vinod Khosla, Khosla Ventures		
10:55-11am	Spotlight Talk	Scaling Highly Engineered Strains to Produce Complex Pharmaceuticals Kristy Hawkins, Antheia		
11-11:45am	Lightning Talks	Reimagining Enzymes for Synthetic Biology with AI-Driven Intelligent Architecture Matthew Thompson, Biomatter	When Will Phenotype Prediction Be a Reality? Jack (J.M.) Geremia, Matterworks	Advanced Synthetic Biology Biofoundries for a Sustainable Future Eunji Kim, CJ CheilJedang
		Rapid Construction of Microbial Cell Factories for High-Value Chemicals Production Jon Brice, Asymchem Inc	AI Augmentation in the Lab: Proteomics, Genomics, Oligo Assembly, and Functional Validation Gurnek Singh, Instadeep	
11-11:45am	Lightning Talks	Seeing Alternative Investors As Bioeconomy Growth Partners Presented by BioP2P	Shake Flasks are the Industry's New, Accessible Bioreactors Jens Bayer, Scientific Bioprocessing (sbi)	Unlocking Market Solutions for Food-Tech Innovations James Petrie, Nourish Ingredients
		AI-Designed Capsids: Powering a New Age of Genetic Medicine David Brookes, Dyno Therapeutics		
11:45am-12:15pm	Panel	Redefining the Bottom Line: Value Creation for Shareholders and the Planet Tara Shirvani, Terrain Investing Pae Wu, SOSV's IndieBio Marc Salit, MITRE Corporation Katherine Collins, Putnam Investments Shannon Theobald, Theobald Alternative Protein Consultancy		
12:15-1:30pm		Lunch Break		
12:15-1:30pm	Various	Conference Lunch Networking Hub	CEO Luncheon Invite Only Grand Ballroom	Student Luncheon Shelby Newsad, Compound VC
12:15-1pm	Lunch & Learn	Bioeconomy Scale Up Through Bioprocess Innovation Kris Chatrathi, Black & Veatch	How (and Why) to Make GMOs People Love Zach Abbott, ZBiotics	Lunch & Learn Presented by University of Edinburgh



Time	Location	Description
1:45-2:30pm		Parallel, Breakout Sessions & Workshops
Parallel Main Stage		<p>Plant Cell Culture: The New Emerging Category in Cellular Agriculture Jason Kakoyiannis Frank Jaksch, Ayana Bio Chris Meaney, Green Bioactives Bob Weinstein, Robertet, Inc. Bonnie Bryton, Fulcrum Global Capital</p>
Breakout Sessions & Workshops		<p>How to Keep an Organ Alive Outside the Body Zvonimir Vrselja, Bexorg Jane Metcalfe, Proto Life Joydeep Bhadury</p>
		<p>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</p>
		<p>The Arc of Innovation in Generative Protein Design James Field, LabGenius Maya Skubatch, Wilson Sonsini Elise de Reus, Cradle Kathy Wei, 310 AI</p>
		<p>Foundation Models for Bio Boris Power, OpenAI Kooshiar Azimian, 310 AI Will Connell, Vevo Therapeutics</p>
		<p>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</p>
		<p>The Role of Biodesign in the Next Gen Synbio Natsai Chieza, Faber Futures Orkan Telhan Jake Wintermute, Ginkgo Bioworks Dan Grushkin, Biodesign Challenge</p>
		<p>Achieving Critical Mass in Synthetic Biology Adoption Charles Dimmler, Checkerspot, Inc. Karl Schmider, MessagingLab</p>
		<p>Generative AI for Synthetic Biology: What's Real and What's Next? Presented by: Asimov</p>
		<p>BioNet: Creating a Distributed SynBio Ecosystem for Everyone Marc Salit, MITRE Corporation Sasha Levy, BacStitch DNA, Inc. Amanda Kohler, Tyrala Consulting LLC Nathan Hillson, Lawrence Berkeley National Lab</p>
		<p>Building Community in Synthetic Biology Albert Anis, ValleyDAO Seemay Chou, Arcadia Science Dorothy Zhang, iGEM Competition Alfred Brown, SynBioBeta, DeSci London Daniel Hussey</p>
		<p>Smart Shake Flasks: Meet SynBio's New Development and Scale-up Workhorse Jens Bayer, Scientific Processiong (sbi) John Nicols, Oranicols</p> <p>Workshop</p>
		<p>How Startups and Corporates Can Partner Together to Bring Synthetic Biology to Scale Breakout Presented by: BCG</p>





Time	Location	Description			
2:45-3:30pm		Parallel, Breakout Sessions & Workshops			
Parallel Main Stage		The Road to Autonomy: Evaluating the Current Landscape of Self-Driving Labs			
Breakout Sessions & Workshops		<p>Revolutionizing Industrial Biotech: Harnessing the Power of AI for Enhanced Efficiency, Innovation, and Sustainable Solutions Rita Cruz, Ingenza Ltd Konrad Miller, Solugen & UC Davis Anna Marie Wagner, Ginkgo Bioworks Christiana Agapakis, Ginkgo Bioworks</p>	<p>AI-Driven Revolutions in Protein Engineering: Pioneering the Next Wave of Biotech Sarah Alamdari, Microsoft Research Ron Boger, Compound Sean McClain, Absci</p>	<p>AI & Digital Twins in Biomanufacturing: A New Horizon Darren Platt Deepti Tanjore Ouwei Wang, Pow.Bio Richard Vellacot</p>	<p>Innovation Nation: Overcoming the UK's Investment Roadblocks to Build the Next Big Bioeconomy Richard Kitney, Imperial College London/SynbiCITE Rob Carlson, Planetary Technologies Karl Handelsman, Codon Capital Fiona Mischel, SynBioBeta Mary McCarthy, Sofinnova Partners</p>
		<p>The Next Generation (Z) of Startup Entrepreneurship Michela Caffrey, Geltor Erin Kim, Erin Kim Consulting Elliott Roth Meera Zassenhaus, New Harvest</p>	<p>Solving the Nitrogen Dilemma for Next-Gen Farming Jason Pontin, Karsten Temme</p>	<p>Hands On, High-T: Global Launch of End-to-End High-Throughput Process Development Platform Yuanting Wu, T&J</p>	<p>Expanding the US Bioeconomy: Federal Progress on the U.S. National Biotechnology and Biomanufacturing Initiative Sarah Glaven, White House Office of Science and Technology Policy Georgia Lagoudas, Former White House Office of Science and Technology Policy Greg Jaffee</p>
		<p>Fully Enzymatic Synthesis: Unlocking Synthetic Biology's Potential Phil Paik, Molecular Assemblies</p>	<p>Harnessing Nature's Molecules: How Synbio in Plants Can Fix Our Broken Food System Magi Richani, Nobell Foods Elaine Watson, AgFunderNews John Hammer, DCVC Alan Berry, Elo Life</p>	<p>Catalyzing the Future of DNA Data Storage: Bridging Science and Corporate Strategy</p>	<p>The New Biomaterials Innovators Tessa Calagan, 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>Creating New Biomanufacturing Opportunities by Optimizing Cell-to-Cell Variations in Bioreactors Kirsten Benjamin, Pivot Bio Adam Burja, dsm-firmenich Adrienne Davenport, BASF Biotechnology Innovation Center Jay Keasling, University of California, Berkeley Peter Rugbjerg, Enduro Genetics</p>	<p>Biosecurity in DNA Synthesis: Establishing Screening Standards Jacob Beal, Raytheon BBN Nicole Wheeler, University of Birmingham Sarah Carter, Science Policy Consulting LLC Kevin Flyangolts, Aclid</p>	<p>AI and Automation: Accelerating the Creation and Growth of New SynBio Companies</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	Presented by Mayfield
4:55-5pm	Spotlight Talk	Presented by Meatable
5-5:20pm	Fireside Chat	Crafting Cures: How Synthetic Biology Personalizes Precision Medicine Larry Stambaugh, Molecular Assemblies, Inc. Maria Soloveychik, SyntheX
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
6pm		Networking Events
6-7pm	Exhibit Hall	Exhibit Hall Reception
7-8:30pm	Various	Birds of a Feather Events: Biopharma Solutions: Tools & Tech Food & Agriculture Chemicals & Materials Desci - Decentralized Science DNA Synthesis Consumer Products SynBio in UK (Concourse) BioDesign at the Tech Institute

Day 3

Thurs, May 9, 2024



THE GLOBAL
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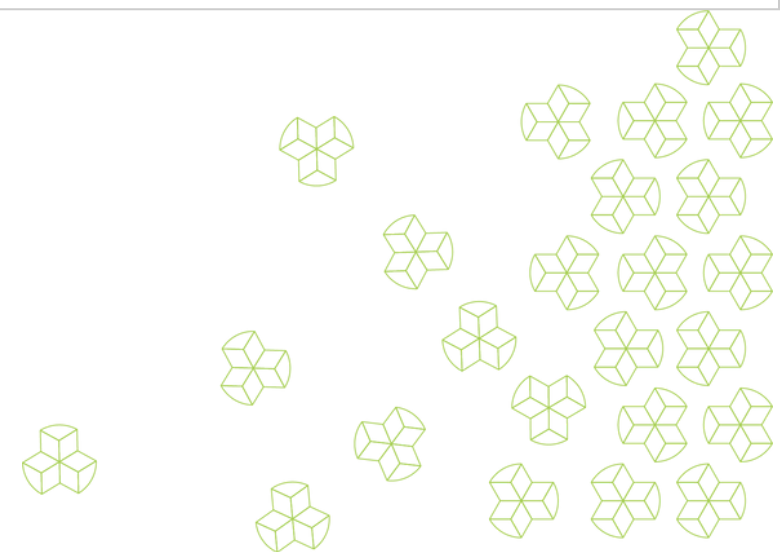
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Time	Location	Description
6:30-7:30am	Meditation Lower Level, The Hub	
7-8:15am	Grand Ballrooms	Senior Tech Leadership Breakfast Invite Only
		Early Stage Founders Breakfast Invite Only
8:30am	Main Stage	
8:30am	Welcome	John Cumbers, SynBioBeta
8:35-8:50am	Keynote	Foundational AI Models for Biology Alex Rives, Evolutionary Scale Patrick Hsu, Arc Institute
8:50-9:05am	Keynote	Bridging Biology and AI for Genome Design Patrick Hsu, Arc Institute
9:05-9:35am	Panel	The Exit Strategy: Acquisition for Consumer Biotech Companies Suveen Sahib, K18 Marko Stojanovic, Procter & Gamble Company Steve Weiss, Grey Heron Erin Kim, Erin Kim Consulting
9:35-9:40am	Spotlight Talk	Build a Better Tomorrow with Sustainable Synthetic Biology Workflow Solutions Jaclyn Greimann, Beckman Coulter Life Sciences
9:40-10am	Keynote	Anne Marie Wagner, Presented by Ginkgo
10-10:30am	Coffee Break Exhibit Hall	
10am-4pm	Exhibit Hall and Poster Sessions Open Exhibit Hall	





Time	Location	Description
10:30am		Main Stage
10:30-10:50am	Keynote	The Problem is \$522M and 13 Years Mary Lou Jepsen, Open Water
10:50-11:10am	Fireside Chat	Revolution 'Down Under': How to Realize a \$30 Billion Opportunity Robert Speight, Commonwealth Scientific and Industrial Research Organisation (CSIRO) Michele Stansfield, Cauldron
11:10-11:45am		Advancing Gene Therapy Beyond Genetic Diseases Martin Borch Jensen, Gordian Bio
11:45am-12:15pm	Panel	Biomufacturing Breakdown: Lessons Learned from Scale-Up Failures and Successes John Nicols, Organicols Richard Vellacott, BiologIC Technologies Shannon Hall, Pow.Bio
12:15-1:30pm		Lunch Break
12:15-1:30pm	Various	Conference Lunch (Networking Hub) Women's Luncheon Invite Only
12:15-1:00pm	Lunch & Learn	Generative AI is Not Enough: Bridging In-Silico to Impact—Where Hype Faces Reality Neil Thomas, Stealth Startup





Time	Location	Description
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1:45-2:30pm

Parallel, Breakout Sessions & Workshops

**Parallel
Main Stage**

Seeking Regulatory Approval for GEMs: Building up the Science Base for Informed Decision-Making

Breakout Sessions

Mindful Molecules: Synthesizing New Hope in Psychedelic Therapies
Dan Pomerantz, Rebel Grown | Andrew Jones, Miami University | Nikita Obidin, Arcadia Medicine | Amy Kruse, Satori Neuro

Sustainable Harvests, Sustainable Returns: A Panel of Investors Betting on the Future of Food
Andrew Ive, Big Idea Ventures | Fengru Lin, Turtletree | Rob Leclerc, AgFunder | David Welch, Synthesis Capital | Tara Burkley, Berry Strategy | Stephanie Michelsen, Jellatech

DNA Synthesis and Biosecurity: A New U.S. Government Framework
James Diggans, Twist Bioscience | Sheng Lin-Gibson, NIST | Piers Millett, IBBIS | Jaime Yassif, NTI | bio | Gopal Sarma

Presented by: Mayfield

Biomufacturing at Scale: Essentials for Decarbonization and Unlocking the Value of SynBio
Eric van der Meer, DAB.bio | Sasha Calder, Geno | Isabel Zhang, HCVC

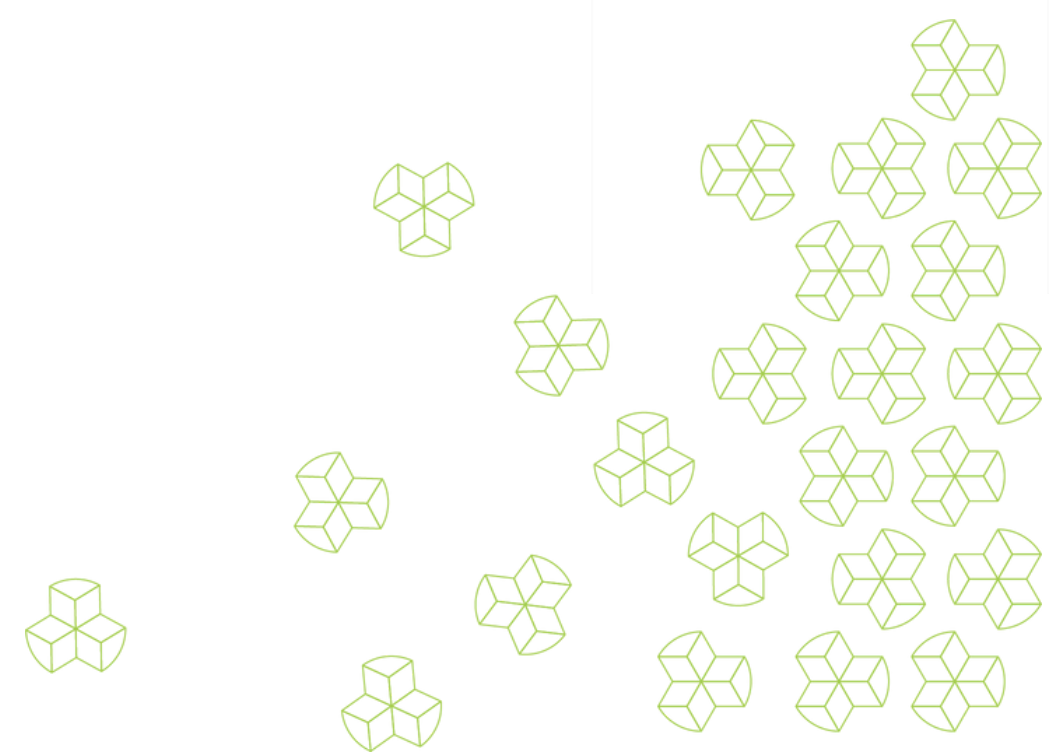
Advancements in On-Chip Droplet Sorting Precision Technology in Synthetic Biology
Workshop Presented by: On-Chip Biotechnologies

LLMs, Sequences, and Solutions: Harnessing Nucleotide Transformer Models in Genomics
Gurnek Singh, Instadeep | Evan Trop

Rapid Enzyme Expression Using A Novel Extracellular Technology
Xuecheng Jiao, Asymchem

Advancing Drug Discovery & Screening: AI, Cell Line Development, and Protein Expression
Salima Ismayilova | Jake Lesnik, Mekonos | Daniel Georgiev, Sampling Human

Building Community in Synthetic Biology
Jan Kalkowski | Daniel Dominguez Gomez, Allbiotech | Gracie To, Conference of China iGEMer Community | Cibele Zolnier, SynBioBR | Sakti Subramanian, Great Lakes SynBio





Time	Location	Description
2:45-3:30pm		Parallel, Breakout Sessions & Workshops
	Parallel	Presented by bit.bio
Breakout Sessions		Energizing the Brain: Emerging Technologies in Neurostimulation Jacob Robinson, Motif Neurotech Mary Lou Jepsen, Openwater Amy Kruse, General Partner & Chief Investment Officer Don Vaughn, Ampa
		DNA Firewall: Progress and Prospects For a Nucleic Acid Screening Test Set Jake Beal, Raytheon BBN Kevin Flyangolts, Aclid Craig Bartling, Battelle (Memorial Institute) Sheng Lin-Gibson, NIST
		Nourishing Life Beyond Earth: Integrating Space Agriculture and Medicine Barbara Belvisi, Interstellar Lab Neil Lamb, HudsonAlpha
Breakout Session Presented by: Pow.Bio		Uncharted Territory: Filling Regulatory Gaps with Voluntary Frameworks Leah Buchman, Biotechnology Innovation Organization Zack Abbott, ZBiotics Sarah Carter, Science Policy Consulting LLC Anastasia Bodnar
		Bridging Biotech: Navigating the Lab-to-Industry Transition Jussi Jantti, VTT Michelle Champagne Simao Soares, SilicoLife
		Function, Meet Form: Engaging Industrial Design for Physical Product-Market Fit Lucy Chinen, nonfood Erin Kim, Erin Kim Consulting Sean Raspert, Simulate
Expanding the US Bioeconomy: Federal Progress on the U.S. National Biotechnology and Biomanufacturing Initiative		Developing Next-Generation Sensors for Biomanufacturing Michael Clear, Schmidt Sciences
		Compressing Bits into Atoms: DNA and the Future of Data Storage and Compute Liesbet Lagae, IMEC
		Robo-coli: Scalable Solutions for High-Throughput Fermentation Mathew Barker, Watchmaker Genomics
3:30-4pm		Coffee Break Exhibit Hall





Time	Location	Description
4pm		Main Stage
4-4:05pm	Welcome	Welcome Back with the Mayor of San Jose, Matt Mahan
4:05-4:25	Panel	Programming Human Cells: The Next Frontier of SynBio for Human Health Thomas Sudhof, Nobel Laureate & Professor at Stanford University Mark Kotter, bit.bio
4:35-4:45pm	Spotlight Talk	Partnering Intelligent Algorithms and Enzymatic DNA Assembly to Accelerate the Future of Synthetic Biology Jodi Barrientos, Ribbon Biolabs
4:45-5:15pm	Panel	Gene Meets Cell: The SynBio Evolution in Targeted Therapeutics Avenia Sanchez-Mejias, Integra Therapeutics Daniel Georgiev, Sampling Human Anil Narasimha Mark Kotter, bit.bio
5:15-5:25pm	Spotlight Talk	Charting Synthetic Biology's Global Futures Megan Palmer, Ginkgo Bioworks
5:25-5:55pm	Keynote	How Web3 and Other Frontier Technologies Will Shape a Future of Boundless Possibilities Juan Benet, Protocol Labs





