



SynBioBeta Daily: Tuesday, October 1



8:00 am

8:30 - 10:00 AM | REGISTRATION

9:00 - 9:45 AM | SPONSOR'S LOUNGE
| Press Conference

8:30 - 9:45 AM | Exhibitor Hours

10:00 am

10:00 - 10:10 AM | MAIN STAGE | Welcome | John Cumbers (SynBioBeta)

10:10 - 10:40 AM | MAIN STAGE | A New Era In Genome Engineering | Kevin Ness (Inscripta)

11:00 am

10:40 - 11:10 AM | Synthetic Biology and the Future of Living Medicine | Ena Cratsenburg (Ginkgo), Timothy Lu (Senti Biosciences), & Aoife Brennan (Synlogic)

11:10 - 11:25 AM | The American Bioeconomy | Ian Watson (The White House Office of Science & Technology Policy)

11:25 - 11:55 AM | America's Biostrategy: Synthetic Biology as a National Priority | Erin Brodwin (Business Insider), Jason Kelly (Ginkgo Bioworks), & Lisa Porter (Department of Defense)

11:55 AM | Featured Spotlight | Justin Bramwell (Labcyte)

12:00 pm

12:00 - 1:30 PM
ROOFTOP PATIO
Lunch
Sponsored By
Labcyte

12:30 - 1:15 PM | BREAKOUT ROOM

- 1 | Partnering With The DoD | Alexander Titus (DoD), Lisa Porter (DoD)
- 3 | Rapid Assembly Of Gene Variant Libraries And Multi-Gene Pathways With Semiconductor Technologies | Cedric Wu (Genscript)
- 4 | Miniaturization and Rapid Processing of TXTL Reactions Using Acoustic Liquid Handling | Jared Bailey (Labcyte)

1:00 pm

1:30 - 2:15 PM | MAIN STAGE

Lightning Talks |
Troy Lionberger (Berkeley Lights) | Will Wright (iGEM) | Josh Silverman (Aromyx) | Rob McBride (Felix Biotechnology) | Laura Whitman (Agilent) | Matt Angle (Paradromics) | Maia Smith (AbCellera) | Kristin Ellis (Opentrons) | Linda Moinar (NSF) | Reed Molbak (Benchling)

1:30 - 2:15 PM | BREAKOUT ROOM

- 1 | From Lab & Laptop to Therapeutics: Harnessing the Power of Collaborative Synthetic Biology to Innovate the 21st Century of Medicine | Jacob Glanville (Distributed Bio), Rachel Hovde (Chimera Bioengineering), Aishani Aatresh (Distributed Bio), Cary Lai (University of San Francisco), Sarah Ives (Distributed Bio)
- 2 | Unlocking The Therapeutic Potential Of Cannabis | Michael Freeman (Raymond James), Michael Mendez (Renew Biopharma), Elizabeth Conway (Surterra Wellness), Jason Poulos (Librede), Kevin Chen (Hyasynth Bio)
- 3 | Synthetic Biology Tech for Biopharma | Sandor Schoichet (Meridian Management Consultants), Jacob Becraft (Strandtx), Christian Groendahl (Sniprbiome), Kunwoo Lee (GenEdit)
- 4 | Synthetic Biology & The Green New Deal | Rob Carlson (Bioeconomy Capital), Will Canine (Opentrons), Keira Havens (Pivot Bio), Zack Exley (New Consensus), Douglas Freidman (Engineering Biology Research Consortium)
- 5 | Genetic Engineering And GMOs In The Consumer Goods Space | Zack Abbott (ZBiotics), Sarah Evanega (Cornell Alliance for Science)

2:00 pm

12:00 - 4:00 PM | Exhibitor Hours

2:30 - 3:15 PM | MAIN STAGE

DNA Data Storage | Megan Molteni (Wired), Bill Peck (Twist), Karin Stauss (Microsoft), Bill Efcavitch (Molecular Assemblies), Henry Lee (Kern Systems) - Sponsored By Molecular Assemblies

2:30 - 3:15 PM | BREAKOUT ROOM

- 1 | What's Your Bio Strategy - The Future of Biomanufacturing | Simone Ross (Idea Evolution Ventures), Mark Bunger (Innovation Lab), Riccardo LoCascio (Novozymes), Jeffrey Dietrich (Lygos), Christina Boville (Aralez Bio)
- 2 | Cyanobacterial and Algal Synthetic Biology | Claudia Vickers (CSIRO Synthetic Biology Future Science Platform), Ajit Sapre (RIL), Charles Dimmler (Checkerspot), Elliot Roth (Spira), James Brown (Bondi Bioworks)
- 3 | Biosecurity | Sarah Carter (Science Policy Consulting), Jason Gammack (Inscripta), Milana Boukhman Trounce (Stanford Medical School), Gabriel Lopez (Synvivia), Renee Wegrzyn (DARPA)
- 4 | What Does It Take To Create Strong Partnerships Between Companies? | Erica Pascal (InGensity IP), Jun Axup (Indie Bio), Miller Tran (Triton Algae Innovations), Laura Smoliar (Berkeley Catalyst Fund), Ranjan Patnaik (Clara Foods) - Sponsored By InGensityIP
- 5 | Synthetic Biology and the Workforce of the Future | Carlyn Obringer (City of Concord), Frank Gornick (West Hills Community College District), Kate Wildauer (FocusBio)

3:00 pm

3:15 - 4:00 PM | EXHIBIT FLOOR | Coffee Break | Sponsored by Ginkgo Bioworks

4:00 pm

4:00 - 4:45 PM | MAIN STAGE | Living Medicines: Engineered Microbes For Health | Xavier Duportet (Eligo Bioscience), Pieter Rottiers (Acto Bio), Travis Whitfill (Azitra), Jason Slingsby (Oxford Biomedical)

5:00 pm

4:45 - 5:30 PM | Digitizing Biology In Precision Medicine & How To Build A Business For Scale | Ursheet Parikh (Mayfield), Charlie Silver (Mission Bio), Jeff Huber (Grail), Mostafa Ronaghi (Illumina), Janice Chen (Mammoth Biosciences), Raj Judge (WSGR) - Sponsored By Mayfield and WSGR

6:00 pm

5:30 - 6:00 PM | Synthetic Immunology: Next-Gen Antibody Engineering | Moira Gunn (Tech Nation), Jake Glanville (Distributed Bio), Aaron Sato (Twist Bioscience), John McCafferty (Iontas)

7:00 pm

6:00 - 7:00 PM | Tech Meet Bio, Bio Meet Tech | George Church (MIT), Eric Schmidt (Google, Alphabet)

8:00 pm

7:00 - 9:00 PM | ROOFTOP PATIO | Inscripta's Evening Welcome Reception

7:00 - 9:00 PM | EXHIBITOR FLOOR | Happy Hour with Benchling

8:00 - 10:00 PM | INDIE BIO: 479 JESSIE ST, SAN FRANCISCO | Procter & Gamble/Indie Bio After Party



For the most up-to-date schedule, scan this QR code to access & download the SynBioBeta 2019 app:



SynBioBeta Daily: Wednesday, October 2



8:00 am
9:00 am

8:45 - 9:45 AM | SPONSOR'S LOUNGE, INVITE ONLY | *Investors' Breakfast, Sponsored by Genoa* | Jenny Rooke

8:30 - 10:00 AM
Exhibitor Hours

8:00 - 9:00 AM | NETWORK LOUNGE, INVITE ONLY | *Office Hours, Sponsored by Y Combinator & Ginkgo Bioworks*

9:00 - 9:45 AM | BREAKOUT ROOM

- 1 | *Cell-free DNA Technology for Synthetic Biology* | Masayuki Su'etsugu (OriCiro)
- 3 | *Automation and Machine Learning: The Engine of The Bio-Industrial Revolution* | Ryan McGuinness (Triple Ring Technologies), John Lesnick (Labcyte), David McLoughlin (Zymergen), Ashoka Rajendra (Benchling), Gabby Halberg (Playground Global)

10:00 am

10:00 - 10:10 AM | MAIN STAGE
Welcome | John Cumbers (SynBioBeta)

10:10 - 10:40 AM | MAIN STAGE | *Successful Partnering in the Bioeconomy* | John Nicols (Codexis) & Michael Harrison (Tate & Lyle)

10:40 - 10:50 AM | *Featured Spotlight* | Charles Dimmler (Checkerspot)

11:00 am

10:50 - 11:00 AM | *Brewing Our Material Future* | David Lips (Spiber)

11:00 - 11:20 AM | *Synthetic Biology in Space* | Adam Arkin (Berkeley Lab)

11:20 - 11:25 AM | *BetaSpace Announcement* | John Cumbers (SynBioBeta)

11:25 - 11:55 AM | *Space - The Synthetic Biology Frontier* | Esther Dyson (Wellville), Jitendra Joshi (NASA), Tim Kopra (Blue Bear Capital), Erika Wagner (Blue Origin), Adam Arkin (Berkeley Lab)

11:55 AM - 12:00 PM | *From Tech for Biology to Biology as Tech* | Austin Che (Ginkgo Bioworks)

12:00 pm

12:00 - 1:30 PM
ROOFTOP PATIO
Lunch

12:15 - 1:15 PM | SPONSOR'S LOUNGE, INVITE ONLY | *Women's Luncheon, Sponsored by Mintz Levin* | Nobel Laureate Frances Arnold, Terri Shieh-Newton, Rosalind Franklin, Una Ryan

12:30 - 1:15 PM | BREAKOUT ROOM

- 1 | *Leveraging The Power of Digital Genome Engineering* | Nandini Krishnamurthy (Inscripta)
- 2 | *Commercial Success of Code Evolver(R)* | Dipnath Baidyaroy (Codexis), Jonathan Vroom
- 3 | *Messaging and Public Perception* | Jon Entine (Genetic Literacy Project), Karl Schmieder (MessagingLAB), Ben Kellogg (BWK), Kevin Costa (SynBioBeta)
- 4 | *Measuring Biology* | Andrew Peck (Waters)
- 5 | *Breaking The Limits Of Golden Gate: Data-Driven Fragment Design To Enable One-Pot Assemblies Of Unprecedented Complexity* | Greg Lohman (New England Biolabs)

1:00 pm

12:00 - 4:00 PM | Exhibitor Hours

1:30 - 2:15 PM | MAIN STAGE
Lightning Talks | Gregor Kosec (Acies Bio) | Heather Loftsgard (IDT) | Scott Plevy (Synlogic) | James Schroeder (Bio Innovation Legal) | David Tze (NovoNutrients) | Emily Leproust (Twist Bioscience) | Surge Biswas (Harvard) | Yousef Asal (Loliware) | Trevor Martin (Mammoth)

1:30 - 2:15 PM | BREAKOUT ROOM

- 1 | *Biodiversity Wildlife Conservation* | Adeline Seah (Wildlife Conservation Society), David Baisch (Conservation X Labs), Nishan Degnarain (World Economic Forum), Edward Perello (Arkurity), Maria Chavez (BioCurious)
- 2 | *Photosynthetic Cell Factories for Sustainability* | Santanu Dasgupta (RIL), Charles Dimmler (Checkerspot), Shota Atsumi (UC Davis), Stephen Mayfield (Synthetic Genomics), Cheryl Kerfield (MSU)
- 3 | *Benchmarking* | Eric Hobbs (Berkeley Lights), Troy Lionberger (Berkeley Lights), Tom Treynor (Treynor Consulting), Robert Leachmen (UC Berkeley), Tim Gardner (Riffyn), Dilara Ally (Joyn Bio), Sarah Richardson (MicroByre)
- 4 | *Make It & Break It: Choice of Protein & Enzyme Expression Platforms* | David Nunn (Conagen), Diane Retallack (Pfenex), Dominik Mojzita (VTT), Johan Kers (AbSci), Casey Lippmeier (Conagen)

2:00 pm

2:15 PM | *Break*

2:30 - 3:15 PM | MAIN STAGE
Investor Panel | Anna Fokina (DCVC), Brian Kaufmann (Viking Global), James Currier (NFX), Jorge Conde (A16z), Annie Hazlehurst (Faridan), Ursheet Parikh (Mayfield)

2:30 - 3:15 PM | BREAKOUT ROOM

- 1 | *Enzymatic DNA Synthesis* | Dan Arlow (Ansa Bio), Tom Baiga, Tim Brears, Michael Kamdar (Molecular Assemblies), Thomas Ybert, Jihao Huang, Henry Lee (Kern Systems)
- 2 | *Unlocking the Potential of the Ocean Microbiome* | Chris Oakes (NovoNutrients), Nishan Degnarain (World Economic Forum), Tariq Warsi (Syntheseas), David Tze (NovoNutrients), Chelsea Briganti (Loliware)
- 3 | *What's Your Bio Strategy? Food Tech & Ag Tech* | Michelle Adelman (Accite Holdings), Ilan Samish (Amay Proteins Ltd.), William Pelton (Phytoform Labs), Ulrika Lidstrom (Innovation Lab)
- 4 | *New Applications In Food Security* | Ellen Jorgensen (Carverr), Jamie Bacher (Boost Biomes), Diane Wu (Trace Genomics), Maureen Hillenmeyer (Hexagon Bio)
- 5 | *Biopharma Partnering* | Sandor Schoichet (Meridian Management Consultants), Melissa Thomas (Amgen), Shyam Patel (CIRM), Ena Cratsenburg (Ginkgo Bioworks)

3:00 pm

3:15 - 4:00 PM | EXHIBIT FLOOR | *Coffee Break* | Sponsored by Labcyte

4:00 - 4:10 PM | *Featured Spotlight* | Alexander Lorestani (Geltor)

4:10 - 4:15 PM | *Award for Frances Arnold* | John Cumbers (SynBioBeta)

4:00 pm

4:15 - 4:45 PM | *Innovation by Evolution* | Nobel Laureate Frances Arnold

4:45 - 5:15 PM | *What's Your Bio Strategy? Chemicals & Materials* | James Hallinan (Cambridge Consultants), Gavin McIntyre (Ecovative Designs), Vince Sewalt (Dupont), Amy Trejo (P&G), Alexander Lorestani (Geltor)

5:00 pm

5:15 - 5:45 PM | *Machine Learning: A New Approach To Drug Discovery* | Daphne Koller (Insitro)

5:45 - 6:15 PM | *The Bio-Belt: Growing The Future In Rural America* | Nishan Degnarain (World Economic Forum), Lenny Mendonca (State of California)

6:30 - 9:30 PM | FORGERY BAR: 1525 MISSION ST, SAN FRANCISCO | *Codexis After Party*

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SynBioBeta Daily: Thursday, October 3



8:00 - 8:45 AM | SPONSOR'S LOUNGE, INVITE ONLY | Early Fundraising with John Cumbers, Sponsored by Petri

9:00 am

9:00 - 9:45 AM | SPONSOR'S LOUNGE, INVITE ONLY
CEO's Breakfast, Sponsored by Sherlock Biosciences

9:00 - 9:45 AM | BREAKOUT ROOM

- 1 | *Synthetic Evolution™ - How Modern AI Driven Enterprise Software is Revolutionizing Biotechnology. A Design-Build-Test-Learn live demonstration.* | Mike Fero (TeselaGen), Sponsored by TeselaGen Biotechnology, Inc.
- 2 | *Standards In The Industry* | Jake Beal (SBOL), Ysis Tarter (Arymis), Bill Hazel (IDGT), Michael Sneddon (Zymergen), Sponsored by SBOL
- 3 | *Leveraging the Power of Digital Genome Engineering* | Nandini Krishnamurthy (Inscripta), Sponsored by Inscripta
- 4 | *Circular Economy: Generating Value from Waste* | Jason Kakoyiannis (Ginkgo Bioworks), Chris Oakes (NovoNutrients), Peter Brooks (Sylmar Groups), Molly Morse (Mango Materials), Sponsored by Oceanskind
- 5 | *Tackle The Tough Jobs First: Echo-Based Automation Of Complex Laboratory Processes For The High-Throughput Characterization Of Computationally Designed Proteins* | George McArthur (Arzeda) Sponsored by Labcyte

10:00 am

9:50 - 10:00 AM | MAIN STAGE | *Performance* | Tim Blais

10:00 AM | MAIN STAGE | *Welcome* | John Cumbers (SynBioBeta)

11:00 am

10:10 - 10:40 AM | MAIN STAGE | *How To Tell The Story Of 21st Century Biology?* | Drew Endy (BioBricks), Oliver Morton (The Economist), Jane Metcalfe (NEO.LIFE)

10:40 - 11:10 AM | *Translating Synbio for Policy Makers & The Public* | Ali Nouri (Federation of American Scientists), Julie Shapiro (Keystone), Zack Exley (New Consensus), Sarah Richardson (MicroByre), Shahram Seyedin-Noor (Civilization Ventures)

12:00 pm

11:10 - 11:55 AM | *Biopharma* | Nishad Salim (Forte Bio by Molecular Devices), Rachel Hovde (Chimera Bioengineering), Sri Kosuri (Octant Bio), Rahul Dhanda (Sherlock Bio), Fyodor Urnov (Innovative Genomics Institute)

11:55 - 12:00 PM | *Awards for Emily Leproust and for Twist Bioscience* | John Cumbers (SynBioBeta)

1:00 pm

12:00 - 1:30 PM
ROOFTOP PATIO
Lunch

12:30 - 1:15 PM | BREAKOUT ROOM

- 1 | *Gene Patents & Policy* | Maya Skubatch (WSGR), Bill Huyn (Genoa Ventures), Drew Endy (BioBricks), Brian Thomas (Metagenomi.co), Claire Laprote (Ginkgo Bioworks)
- 2 | *Redesign Your Research Funnel* | Rebecca Nugent (Twist Biosciences), Sponsored by Twist Bioscience
- 3 | *Massively Parallel Systematic Discovery In Cell-Free Synthetic Biology* | Ben Steil (Arbor Biosciences), Zachary Sun (Tierra Biosciences), Felix Moser (Synlife), Sponsored by Arbor Biosciences
- 4 | *Fundraising 101: When, Where, & How To Raise Funds in SynBio* | Sachin Kelkar (Geltor), Sponsored by Geltor
- 5 | *Chemicals, Ag & Pharmaceuticals: Computational Protein Design & Synthetic Biology* | Alexandre Zanghellini (Arzeda), Sponsored by Arzeda

2:00 pm

12:00 - 4:00 PM | Exhibitor Hours

1:30 - 2:15 PM | MAIN STAGE
Lightning Talks | Justin Jarrell (Indee Labs) | Alexis Rovner (64-x) | David Younger (A-Alpha Bio) | Victoria Chernow (Department of Energy) | Douglas Friedman (Engineering Biology Research Consortium), Nethaji Gallage (Octarine), Arvind Gupta (Indie Bio), Amanda Cashin (Illumina), Ran Chao (LifeFoundry), Keith Wood (Promega)

1:30 - 2:15 PM | BREAKOUT ROOM

- 1 | *Bioproduced Materials: Practical Perspectives from Leading Brands* | Daniel Meyer (Spiber), Hikari Mori (The North Face Japan), Yuima Nakazato (YUIMA NAKAZATO), Don Tashman (Loaded Boards), Sponsored by Spiber
- 2 | *Genome Scale Mapping Of Genotype To Phenotype Relationships for Engineering & Discovery* | Richard Fox (Inscripta), Sponsored by Inscripta
- 3 | *Investing In A Sustainable Future* | Stephanie Marrus (UCSF), Travis Murdoch (Softbank Investment Advisers), Seth Bannon (Fifty Years), Roger Wyse (Spruce Capital Partners)
- 4 | *New Applications In Synthetic Biology* | Akos Nyerges (Biological Research Center, Hungarian Academy of Science), Vykintas Jauniškis (Biomatter Designs)
- 5 | *Biobelt Ambassadors* | John Cumbers (SynBioBeta)

2:15 PM | EXHIBIT FLOOR | *Break*

3:00 pm

2:30 - 3:15 PM | MAIN STAGE
The Future of Food | Ryan Bethencourt (Wild Earth), David Nunn (Conagen), Ajit Sapre (RIL), Sarah Evanega (Cornell Alliance For Science), Tom Simmons (STEM)

2:30 - 3:15 PM | BREAKOUT ROOM

- 1 | *Wide Applications of Protein Engineering* | Gjalt Huisman (Codexis), Matthew Miller (Codexis), Kerryn McCluskie (Codexis), Oscar Alvizo (Codexis), Sponsored by Codexis
- 3 | *Emerging Women Leaders in Synthetic Biology* | Marilene Pavan (LanzaTech), Erin Kim (Geltor), Christina Agapakis (Ginkgo Bioworks), Linda Guaman (Biomedical Research Center), Nitasha Syed (Unboxd), Sponsored by Ginkgo Bioworks
- 4 | *Synthetic Biology in Space* | Arye Lipman (MarsBio), Lisa Nip (MIT), Karen McDonald (UC Davis-Chemical Engineering), Amor Menezes (UFL), Shannon Nangle (Harvard Medical)
- 5 | *Science Philanthropy* | Megan Palmer (Stanford), Todd Peterson (Allen Institute), Heather Youngs (Open Philanthropy), Kevin Chen (Hyasynth)

3:15 - 4:00 PM | EXHIBIT FLOOR | *Coffee Break* | Sponsored by Berkeley Lights

4:00 pm

4:00 - 4:05 PM | MAIN STAGE | *Legal Considerations for Using AI in Syntheti Biology* | Terri Shieh-Newton (Mintz Levin)

4:05 - 4:20 PM | *Startup Draft* | James Currier (NFX)

4:20 - 4:25 PM | *Award for Megan Palmer* | John Cumbers (SynBioBeta)

4:25 - 4:50 PM | *Stopping A Pandemic In Its Tracks- The Role Of Synthetic Biology* | Megan Palmer (Stanford), Dan Wattendorf (Gates Foundation), Tom Kalil (Schmidt Futures)

5:00 pm

4:50 - 5:35 PM | *The Next Phase of AI in Synthetic Biologics* | Tim Gardner (Riffyn), Toby Richardson (Denovium), Andrew Phillips (Microsoft), Aishani Aatresh (Distributed Bio), Josh Lesnick (Labcyte), Sponsored by Mintz Levin

5:35 - 5:40 PM | *Featured Talk* | Zack Abbott (ZBiotics)

6:00 pm

5:40 - 6:10 PM | *How We Built Illumina - and Why What's Next is Even More Disruptive* | Bryan Roberts (Venrock), Dianna DeVore (Inscripta), John Stuelpnagel (10X Genomics), Sponsored by Inscripta

8:00 - 10:00 PM | AWS: 525 MARKET ST #2, SAN FRANCISCO | AWS After Party

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