



Synthetic Biology Summit - “Blockchain Meets Bio” *Sustainable Biomanufacturing for Future Network States*

Saturday April 1 - Sunday April 2, 2023
Zuzalu, Montenegro

Join our exclusive 2-day summit delving into the fascinating crossroads of synthetic biology, network states, sustainable production, and blockchain technologies. Synthetic biology aims to simplify the engineering of biology, with the costs of reading, writing, and editing DNA plummeting while speed and accessibility soar. Discover how companies are harnessing biology to produce bio-based jet fuel, textiles, concrete, and other chemicals and materials. Engage with trailblazing entrepreneurs crafting innovative foods, crops, and fragrances. Gain insights into cutting-edge medical advancements such as cell therapies, vaccines, and living medicines. Join us to explore the potential applications that will shape sustainable manufacturing ecosystems within future network states and emerging startup cities.

1. Synthetic Biology Fundamentals

- What is synthetic biology, and what makes it an attractive approach for developing bio-based economies?
- What tools and techniques in synthetic biology can they be applied to create novel biological systems?
- What are some examples of successful applications of synthetic biology, and what challenges exist?

2. Blockchain, network states, DAO's and their role in promoting biotechnology innovation

- What are network states, DAO's and how are they challenging the traditional ways we coordinate and organize economical and societal activities?
- How might network states be uniquely positioned to promote biotechnology innovation and the development of new economies?
- What are some specific examples from the distributed science movement (DeSci) that have successfully leveraged biotechnology as an innovation engine?

3. Biological Manufacturing Technologies

- What are the latest biological manufacturing technologies being used and developed today?
- How can we ensure the safety and quality of biological manufacturing processes?
- What are the challenges of scaling up biological manufacturing processes?

4. Economic and Social Implications of Distributed Biological Manufacturing

- How can distributed biological manufacturing impact local and global economies?
- What are the potential social implications of widespread adoption of distributed biological manufacturing?
- How can distributed biological manufacturing contribute to a sustainable and resilient future?

Brought to you by:

Blockchain Meets Bio Summit Day 1: Saturday, April 1, 2023

8.00am - 9.00am - Breakfast, Kiki's

9.00am - 9.30am - *Welcome & Introductions*

John Cumbers, CEO & Founder, SynBioBeta and Vitalik Buterin, Founder, Ethereum

9.30am - 10.00am - *Introduction to Synthetic Biology*

John Cumbers, CEO & Founder, SynBioBeta

10.00am - 10.30am - *Programming Biology and the Biofoundry Model*

Jason Kelly, CEO & Founder, Ginkgo Bioworks

10.30am - 11.00am - *All Atoms are Local: Building Biotic Futures*

Drew Endy, Martin Family Fellow in Undergraduate Education, Stanford University

11.00am - 11.30am - Break

11.30am - 12:00pm - *Connecting Blockchain and Biology*

Benji Leibowitz, Product Manager, Molecule

12.00pm - 12.30pm - *Foundations for Building Network States*

Paul Kohlhaas, Co-Founder & CEO, Molecule

12.30pm - 1.30pm - Lunch, Kiki's

1.30pm - 1.50pm - *PLEX: Building an Operating System for Networked Scientific Organisations*

Lily Hansen-Gillis, Core, LabDAO

1.50pm - 2.10pm - *Building the Bionetwork State*

Albert Anis, Core, ValleyDAO

2.10pm - 2.30pm - *Impact of Universal Vaccines on the Future of Mankind*

Jake Glanville, CEO & Founder, Centivax

2.30pm - 2.50 pm - *Fixing a Broken Drug Development Pipeline*

Alok Tayi, CEO & Founder, Vibe Bio

2.50pm - 3.30pm - Small Group Q&A

The Dome: SynBio Q&A - Jason Kelly, Elizabeth Trykin, Mark Kotter, Kristen Allbright

The Spot: Network states Q&A - Nick Tikhonov, Founder, Littleatlas.xyz

The Boardroom: DAOs Q&A - Lily Hansen-Gillis, and Frens from ValleyDAO, SpaceBioDAO, VitaDAO

3.30pm - 4.00pm: Break

4.00pm - Buses Leave for Movida Restaurant & Lounge Club from The Chedi Main Entrance (10 min ride)

5.00pm - 7.30pm - Sunset Sail from Movida Restaurant & Lounge Club

6pm - *Waterway Fireside Chat - A Decentralized Society That's Built with Biology*

Vitalik Buterin & Drew Endy

7.30pm - 9.00pm - No Host Dinner (Boat will dock in Tivat with many great dining options)

Return by Bus to Lustica Bay at 7:30pm or 9pm

Blockchain Meets Bio Summit Day 2: Sunday, April 2, 2023

9.00am - 10.00am - Breakfast, Kiki's

10.00am - 10.20am - *Biology in the Built Environment: Bio Based Concrete*
Ginger Dosier, CEO & Founder, BioMason

10.20am - 10.40am - *Engineering Human Cells, Longevity, & the Future of Medicine*
Mark Kotter, CEO & Founder, Bit.bio

10.40am - 11.00am - *Synthetic Biology for Carbon Negative Manufacturing of Chemicals and Materials*
Jennifer Holmgren, CEO, LanzaTech

11.00am - 11.50pm - Small Group Workshops

The Dome: Biomanufacturing Scale-Up - **Jennifer Holmgren, CEO, LanzaTech**

Kiki's: A Living Experiment with Prospera - **Niklas Anzinger, General Partner, Infinita VC**

The Spot: Decentralized Science - **Martin Etzrost, Researcher, AKASHA & Sönke Bartling, Founder, Blockchain For Science**

The Boardroom: Distributed Emerging Technology - **Dorothy Zhang, VP of Global Development, iGEM**

11.50am - 12.30pm - Break

12.30pm - 12.50pm - *Building Digital Infrastructure for the Growing Bioeconomy*
Elizabeth Trykin, Product, Invert

12.50pm - 1.10pm - *Medicine 3.0*
Laurence Ion, Dealflow Steward, VitaDAO

1.10pm - 1.30pm - *Distributed Biotech for Interstellar Civilisations*
Sarah Rouse, Founder, SpaceBioDAO

1.30pm - 2.00pm - *Biobots and the Future of Biology*
Michael Levin, Professor, Tufts University

2.00pm - 3.00pm - Grand Buffet Afternoon Lunch, Kiki's

3.00pm - 3.30pm - *Investor Panel: Investing in Web3-Enabled Organizations*
Paul Kohlhaas, Niklas Anzinger, Cecilia Manduca, Sandro G & Steven Jacobs

3.30pm - 4.15pm - Small Group Breakouts

The Dome: Solving Inefficiencies in Biomanufacturing with Network States - **Kristen Allbright, CEO, Prokarium**

Kiki's: Gamification of Science - **Ashton Trotmant-Grant, Founder, Stealth**

The Boardroom: Evolving Scientific Funding with Web3 - **Boris Dyakov, DeSci Funding, Gitcoin**

The Spot: Self-organized breakouts

4.15pm - 5.00pm - *Panel discussion: Summary, Takeaways and Next Steps.*
John Cumbers, Jennifer Holmgren, Drew Endy & Vincent Weisser

5.00pm - Wrap up

6.00 - 8.00 pm - No Host Dinner - Lustica