



# 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:**



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

## **8.00am - 9.00am - Breakfast**

9.00am - 9.30am - *Welcome & Introductions*

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

**John Cumbers, CEO & Founder, SynBioBeta**

10.00am - 10.30am - *All Atoms are local: building biotic futures*

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

10.30am - 11.00am - *Programming Biology and the Biofoundry Model*

**Jason Kelly, CEO & Founder, Ginkgo Bioworks**

## **11.00am - 11.30am - Break**

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

**Benji Leibowitz, Molecule**

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

**Paul Kohlhaas, Molecule**

## **12.30pm - 1.30pm - Lunch**

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, Founder, ValleyDAO**

2.10pm - 2.30pm - *Immunology, Machine Learning and Building a Universal Vaccine*

**Jake Glanville, CEO and 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**

*SynBio Q&A - Jason Kelly, Ginkgo Bioworks*

*Biomanufacturing scale Up Q&A - Jennifer Holmgren, CEO, LanzaTech*

*Network states Q&A - Nick Tokhonov, Littleatlas.xyz*

*DAOs Q&A - LabDAO, ValleyDAO, SpaceBioDAO, VitaDAO*

## **3.30pm - 4.00pm: Break**

**4.00pm - Buses Leave for Movida Restaurant & Lounge Club (10 min to boat)**

**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)**



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

## 9.00am - 10.00am - Breakfast

10.00am - 10.20am - *Biology in the Built Environment: Bio Based Concrete*

**Ginger Dossier, 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 - 11.30am - Break

## 11.30am - 12.30am - Small Group Workshops

*Solving Inefficiencies in Biomanufacturing with Network States* – **Kristen Allbright, Prokarium**

*A Living Experiment with Prospera* – **Niklas Anzinger, Infinita VC**

Decentralized science - **Martin Etzrost (AKASHA) & Sönke Bartling (Blockchain For Science)**

Gamification of Science - **Ashton Trotmant-Grant**

*Distributed Emerging Technology* – **Dorothy Zhang, iGEM**

12.30am - 12.50am - Building digital infrastructure for the growing bioeconomy

**Elizabeth Trykin, Product, Invert**

12.50pm - 1.10pm - Medicine 3.0

**Laurence Ion, Dealfow Steward, VitaDAO**

1.10pm - 1.30pm - *Distributed Biotech for Interstellar Civilisations*

**Sarah Rouse, Founder, SpaceBioDAO**

## 1.30pm - 2.30pm - Lunch

2.30pm - 3.00pm - *Investor Panel: Investing in web3-enabled organizations*

**Niklas Anzinger, Cecilia Manduca, Sandro G, Steven Jacobs, Sebastian Brunemeier**

3.00pm - 3.30pm - *Biobots and the Future of Biology*

**Michael Levin, Tufts University**

3.30pm - 4.15pm - *Small Group Breakouts*

4.15pm - 5.00pm - Panel discussion: *Summary, Takeaways and Next Steps.*

Speakers: **John Cumbers, Jennifer Holmgren, Drew Endy, Vincent Weisser**

## 5.00pm - Wrap up

**6.00 - 8.00 pm - No Host Dinner - Lustica**