



# The Earth BioGenome Project

## - Exploring the Dark Matter of Biology

For the first time in history, it is possible to efficiently sequence the genomes of all known eukaryot species. The Earth BioGenome Project (EBP) aims to sequence all the millions of species so far hidden from science. This project is a moonshot for biology, and has the potential to transform our understanding of life on Earth, and to bring innovative solutions to all the big challenges of our time. How can Norway contribute to and benefit from this major opportunity?

Learn more on the 5th of November when Harris Lewin, professor and chair of EBP, is coming to Oslo!

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**WHEN:** November 5th, 14.30 – 17.30

**WHERE:** Forum, Oslo Science Park





## PROGRAM

**MODERATOR:** Kristin Halvorsen, Head of The Norwegian Biotechnology Advisory Board

**14.30 Registration, coffee & tea**

**15.00 Welcome & Introductions**

Marius Øgaard, Managing Director The Life Science Cluster  
Øystein Lie, Professor Emeritus & Founder of GenoMar

**15.10 The Earth BioGenome Project**

- **Sequencing Life for the Future of Life**  
Harris Lewin, Professor & Chair of EBP

**15.50 From Linné to Lovelock (Gaia); the microbiome as a toll for understanding the major players in ecosystems**

Dag O. Hessen, Professor University of Oslo

**16.00 Norwegian Initiative for Biodiversity Genomics**

Kjetill S. Jakobsen, Professor University of Oslo

**16.15 Research Panel Discussion**

- Harris Lewin, Professor & Chair of EBP
- Trond Ø. Jørgensen, Professor Emeritus UiT Arctic University of Norway
- Kjetil Taskén, Head and Director of Institute of Cancer Research at Oslo University Hospital & Professor at University of Oslo
- Simen Rød Sandve, Associate Professor Norwegian University of Life Sciences
- Trygve Brautaset, Professor & Director for Centre for Digital Life Norway

**16.40 Industry Panel Discussion**

- Harris Lewin, Professor & Chair of EBP
- Frank Larsen, Managing Director Klosser Innovation
- Nicolas E. Vaugelade-Baust, Country Medical Manager (gen.med) Norway, Novartis
- Sverre Bjørnstad, CEO Geno SA
- Francis D'Silva, Vice President – Smart Care, Acando

**17.05 Networking w/ food & drinks**





**Harris A. Lewin** chairs the working group for the Earth BioGenome Project. He is a professor of evolution and ecology and Robert and Rosabel Osborne Endowed Chair at the University of California, Davis. In 2011, Lewin was awarded the Wolf prize in Agriculture, and in 2013 he was elected to the US. National Academy of Sciences.



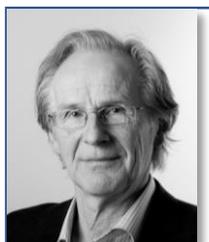
**Kjetill S. Jakobsen** is professor in evolutionary genomics at Dept. of Biosciences, UiO and director of Norwegian Sequencing Centre. He recently became chair of Centre for Ecological and Evolutionary Synthesis. Jakobsen has led several large genomics projects including sequencing of Atlantic cod.



**Marius Øgaard** is the managing director of The Life Science Cluster – an organization working to create growth in Norway’s bio-based industries. He is also a partner at ShareLab – an incubator for biotech startups. His expertise in R&D and business development comes from a long career in international high-tech companies.



**Trond Ø. Jørgensen** is professor emeritus at Dept. of Marine Biotechnology at UiT The Arctic University of Norway. In 2015, he received the Norwegian Academy of Technological Science Special Award for “pioneering technology in making Norwegian aquaculture free of antibiotics”. Initiator/co-founder of several R&D projects.



**Øystein Lie** is professor, DMV, in genetics. Founder of the aqua breeding company GenoMar and co founder and chair of the molecular genetics company TempoGene. Initiator of international R&D projects and networks in genetics and aqua culture. Dean at the Norwegian University of Life Sciences, 2014-2016.



**Kjetil Taskén** is head and director of Institute of Cancer Research at Oslo University Hospital and professor at University of Oslo. In 2016, he was awarded the prestigious King Olavs Vs Cancer Research Prize for his work on immunotherapy. He accounts for 15 patents that have resulted in the creation of two biotechnology companies.



**Dag O. Hessen** is professor in biology at Dept. of Biosciences, UiO, and head of Centre of Biogeochemistry in the Anthropocene. He is working on a broad range of evolutionary and ecological topics, has also written a number of popular science books, and been deeply involved in the Norwegian Act on Biodiversity.



**Simen R. Sandve** is associate professor at the Faculty of Biosciences at the Norwegian University of Life Sciences. His research has focused on understanding how genomes evolve. He has been involved in the sequencing and analyses of the hexaploid bread wheat genome and the sequencing of the double genome of the Atlantic salmon.





# EARTH BIOGENOME PROJECT



**Trygve Brautaset** is professor in biotechnology at NTNU and leader for Centre for Digital Life Norway (DLN). DLN promotes transdisciplinarity and digitalization into Norwegian biotechnology research and education. Brautaset's research is on combining between synthetic- and systems biology to genetically engineer microorganisms for industrial biotechnology.



**Sverre Bjørnstad** is CEO of Geno SA, which is a breeding coop developing the Norwegian red breed. Geno has a growing export of germplasm and its investment in R&D has resulted in several biotech companies.



**Frank Larsen** is managing director of Klosser Innovation focusing on bioeconomy and creating new businesses. His PhD was on genomics and epigenetics and he is a founder of biotech companies. His contribution to the human genome project was six of the 20,000 genes and how to use bioinformatics to identify new genes.



**Francis D'Silva** is vice president in Acando responsible for the firm's digital agenda for healthcare. He has nearly 35 years experience including building some of Norway's national digital platforms in health & public sector. In his current role he looks to exploiting advances in data models, business models and technology.



**Nicolas E. Vaugelade-Baust** is country medical manager Norway Novartis. Novartis has a strong focus on cell- and gene based therapies and is developing treatments for a variety of patient groups. Vaugelade-Baust is a medical doctor by training and with numerous years of experience in the pharmaceutical sector.



**Kristin Halvorsen** is head of Bioteknologirådet, director of Center for International Climate and Environmental Research – Oslo, and chairman of the board for the Natural History Museum. She is a former politician and was a member of the Stoltenberg II government from 2005 to 2013.