



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.



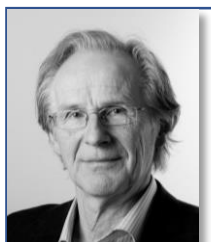
Kjetill S. Jakobsen is professor in evolutionary genomics at Dept. of Biosciences, UiO and director of Norwegian Sequencing Centre. He recently became chair of Centre for Ecological and Evolutionary Synthesis. Jakobsen has led several large genomics projects including sequencing of Atlantic cod.



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.



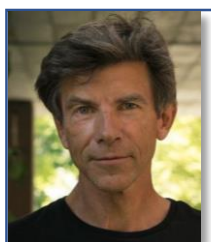
Trond Ø. Jørgensen is professor emeritus at Dept. of Marine Biotechnology at UiT The Arctic University of Norway. In 2015, he received the Norwegian Academy of Technological Science Special Award for “pioneering technology in making Norwegian aquaculture free of antibiotics”. Initiator/co-founder of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