

What is the Centre for Digital Life Norway?

The Centre for Digital Life Norway (DLN) is a national centre for biotechnology research, education and innovation, established in 2016. DLN is composed of a portfolio of academic biotechnology projects led by universities and research institutes all over the country, connected together by a multi-site competence hub and research school that facilitate transdisciplinary collaboration and training.

DLN's vision is open science and convergence of biotechnology and life sciences with computer science, engineering, mathematics, physics, and statistics as well as with social sciences and the humanities. The research projects in the centre combine biotechnology with digital technology in health, aquaculture, agriculture, and industrial biotechnology.

At the heart of DLN is synergizing different ways of addressing the same problems within digital biotechnology and stimulating deep collaborations that go beyond traditional disciplinary approaches. We work towards building a culture for innovative thinking by connecting society, academia, and industry and by training a new generation of transdisciplinary life scientists.

Supporting academic digital biotechnology

Member projects have access to support from the dedicated DLN Competence Hub that provides guidance and resources for cross-disciplinary collaboration; data and models; commercialisation, innovation and industry collaboration; responsible research and innovation; communication; and education, training and career development.

Affiliated researchers may also apply for support for cross-project activities, training, events, innovation, data management, the DLN Industry Internship program, and annual awards recognizing research excellence. The Digital Life Norway Research School offers a year-round calendar of courses and events that cater to the unique needs of today's emerging biotechnology researchers.

In addition, the Research Council of Norway-funded "Roadmap for Academic Research-Intensive Innovation" is a a strategic initiative at the Centre to identify gaps in the biotech innovation ecosystem in Norway and test out potential solutions together with DLN projects.

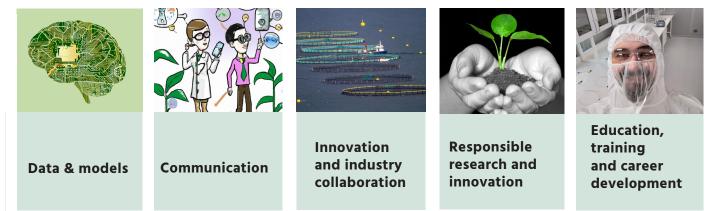
Transforming biotechnology

The overall goal of the centre is to transform research, innovation and training in Norwegian biotechnology to foster transdisciplinary collaboration and contribute to sustainable value creation for Norwegian society.

DLN is an open centre!

Want to join DLN? Young researchers can apply to join the DLN Research School, and we welcome new projects to join the Centre. Scan the QR code and find more details on our webpage.





DLN is funded by the Research Council of Norway (2016-2026) and co-owned by seven partner institutions:











intelligence in microscopy and Sequencing Life for the Future of treatment of calcification of hear development of pharmacological symphony: Whole organism **A Norwegian Earth BioGenome** Project: the initial launch phase orchestration of autophagy create a better nanoscope Developing an environmentally mathematical systems to friendly, low-cost method for Combining optical and Final act of autophagy Nanoscale artificial valves and blood vessels sciences (*NanoAI) Calcification inhibition – nanoscopy for life making palladium (Pd) FINALphagy termination *NanoAl nanoparticles nanoRIP (EBP-Nor) Ξ BEDPAN Ë OiN Calinhib UiO OİU Life UiO through Single Objective Lightmarine Artic resources Sheet Imaging System (SOLIS) concrete for construction bacterial processes in the triggering resistance with reduced risk of fundamental control of Digital discovery of Systems analysis and molecules from Development of Real Volumetric Microscopy Personalised From genes to brain health with production of biofunction in health **Better** soil **Magnostic** antimicrobial SmartSoil PerCaThe DigiBiotics therapy **BioZEment 2.0** digital cancer tools and disease UiO OİU purposes *UiO* DigiBrain Ξ UiO SOLIS Ξ Assessment of individual risk of precision prognostics and Al for Big insight from multimodal brain-based uio & ous dementia in epilepsy: AIRDEM and AI-Mind dementia prevention BigInsight big data reactive to a pre-emptive Digital Salmon – from a Biological, ecological and economic implications of research strategy in gene editing in animal extracellular vesicles (EV) ous through biomarkers in Categorising cancer aquaculture **EV-LiquidBiopsy** production NMBU DigiSal EcoGene NMBU T-cell immunotherapy Screening of cancer drug sensitivity data to predict manufacturing for cancer treatment ous cancer therapies. systems for efficient conversion CellFit PINPOINT ous Optimized oxidative enzyme of lignocellulose to valuable action of the state of the stat No. охумор products NMBU based software to identify prostate Developing Alcancer in MR PROVIZ images NTNU omics approach to sensor platform improve prostate cancer diagnosis issue': a multi-Tissue is the ProstOmics Listening to the patients Listening to their gut to NTNU improve the lives of people with type I diabetes the best drug combination for each practice and the Using computer modelling to find NTNU Responsibility, across Digital public good **Res Publica** application as smart adjuvant for Implementing a model organism **DrugLogics and PRESORT** NTNU for studying vault function and Life communities for the conversion Resistance in Wastewater of lignocellulose into medium-Spread of Antimicrobial cancer patient Wastewater-AMR **Treatment Plants** fish vaccination. UiB Engineering microbial discovery - using machine learning chain carboxylates NTNU Decoding the systems toxicology of models that can analyze medical images bottleneck in the drug discovery Responsible early digital drug **Computational Medical Imaging and** machine learning and deep learning LiceVault and development process UiB to tackle a computational Cell4Chem Machine Learning – developing UIS NTNU **Artificial Pancreas** An easier life with and image-related data Intraperitoneal DIAP – Double A database to **RESPOND3** Parkinson's Atlantic cod understand microorganisms living in the Trondheim fjord diabetes ParkOme disease dCod 1.0 drugs to combat antibiotic resistance. The NTNU MedimML There is an urgent need to develop new UiB UiB solution can be surprisingly close, in UiB and optimize To discover antibiotics antibiotics by Personalised Medicine – acute myeloid leukaemias Acute Myeloid Leukaemia by personalised medicine improved treatments of Future Microbial production of omega-3 fatty acids – a model based approach new Centre for Cancer Improved monitoring UiB and treatment of neurometabolic Biomarkers INBioPharm AUROMEGA Architecture CCBIO disorders MEDIATE Heuristics AML_PM UiB Adaptive SINTEF NTNU AHA! UiB UiB and UiB

health, aquaculture, agriculture, and industrial biotechnology. The centre has more than 40

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www.digitallifenorway.org

