Project title	Applicant	Organisation
2024		
The structure of oligomers of the amyloid-β peptide	Andreas Barth	SU
Ultrastructure of nature's high performance fiber and novel bioactive hydrogels	Anna Rising	SLU
Single cell landscape of immune responses in the upper respiratory tract of patients with influenza virus infection.	Anna Smed Sörensen	KI
Binding mechanism of the chaperone BRICHOS to α-synuclein fibrils	Axel Abelein	KI
Profiling of histone modifications in type 2 diabetes	Charlotte Ling	LU
Understanding abundance patterns in Amazonia	Christine Bacon	GU
Multiomics analysis of patient-derived pancreatic tumor organoid lines	Daniel Öhlund	UmU
Genetical Genomics and Causation Analysis using Single Cell data	Dominic Wright	LiU
Prediction of Prophage-related Injection Machines and Unseen Features	Eva Maria Rebrova	LU
Folding a small, superstable protein within the ribosome	Gunnar von Heijne	SU
Structural characterization of the leukotriene biosynthetic complex	Jesper Haeggström	KI
Experimental evolution of dosage compensation	Jessica Abbott	LU
Studies of the microbiome in cancer	Joakim Dillner	KI
Exploring the role of transposable elements in human brain evolution	Johan Jakobsson	LU
Structural basis for potent henipavirus neutralization	Leo Hanke	KI
Bacterial gene expression and host response during pneumonia	Magnus Paulsson	LU
The genes and pathways of pain, analysis of sensory neurons diversity	Marcin Szczot	LiU
De-novo genome annotation of the ball-rolling dung beetle, Kheper lamarcki	Marie Dacke	LU
Hypervariable loop length of combinatorial library-derived antibodies	Mats Ohlin	LU
How do somatic mutations contribute to ageing?	Matthew Webster	UU
Population genomics of wildlife malaria across a quarter of a century	Olof Hellgren	LU
Identifying secreted proteins and mechanisms in enteroendocrine cells	Olov Andersson	UU
Cryo-EM studies of the toxin-associated P47 from P. bifermentans.	Pål Stenmark	SU
Identify drug binding on the eukaryotic ribosome	Robin Fåhraeus	UmU
Developing a deep learning approach to fully integrate contextual information from remote sensing for species distribution modeling	Tobias Andermann	UU
The importance of structural variation in early domestication	Torsten Günther	UU
Spatial gene enrichment analysis with permutation testing	Tuuli Lappalainen	KTH
Spatio-temporal regulation of the developing enteric nervous system	Ulrika Marklund	KI
Photosynthetic regulation under high light stress	Wolfgang P Schröder	UmU
2023		
Unravelling the secrets of nature's high-performance fiber	Anna Rising	SLU
Efficient protein structure predictions using Nextflow	Arne Elofsson	SU
The rise and fall of genes: insights from evolving sex chromosomes	Bengt Hansson	LU
The COMMUNITY (COVID-19 Immunity) project	Charlotte Thålin	KI
Genetic diabetes subtype risk and medical imaging and multi-omics data	Clemens Wittenbecher	Chalmers
Characterization of UC1 and UC2 patients: towards personalized medicin	Eduardo Villablanca	KI
Cell fate decisions and plasticity across organ systems	Emma Andersson	KI
Training to see invisible signs of cancer cells surviving therapy.	Emma Hammarlund	LU
Physiological functions of the AH receptor in the intestine and beyond	Emma Wincent	KI
Comparative multi-omics of Baltic Sea bacterioplankton communities	Jarone Pinhassi	LNU
SUPRCellfactories	Johan Rockberg	KTH
Transcriptome profiling in the neurogenic areas of the human brain	Jonas Frisén	KI
Structure determination of the MT1-MT2 GPCR heterodimer	Linda Johansson	GU
Discovery of the genetic markers of microbial robustness in yeast	Lisbeth Olsson	Chalmers
A novel pipeline for processing and analyzing extremely degraded DNA	Love Dalén	SU
Citrullination Dynamics in Stem Cell Lineage Progression	Maria Genander	KI
Temporal and spatial regulation of neural stem cells	Qi Dai	SU
Cryo-EM structure and conformational dynamics of p53 mRNA	Robin Fahraeus	UmU
Longitudinal multi-omics landscape of HER2-positive breast cancer	Theodoros Foukakis	KI
2022		
Unraveling the mechanism of nuclear small RNA mediated gene silencing	Aishe Sarshad	GU
Immune landscape in esophageal cancer for improved patient subtyping	Andrea Ponzetta	KI
Retinopathy of prematurity: metabolic risk factors	Ann Hellström	GU
Evolutionary genomics of ancient and novel lineages in Passeridae	Arild Husby	UU
Quantification of blister rust damage and fibre angle deviation inSPBR	Dick Sandberg	Other

Inspiration at Birth:Inflammation& perturbation of perinatal breathing	Eric Herlenius	KI
The Global Environmental Antibiotic Resistance Atlas	Johan Bengtsson-Palme	Chalmers
Ultra-fast and accurate alignment with a novel fuzzy seeding technique	Kristoffer Sahlin	SU
Single cell characterization of pathogenic immune cells in MS	Maja Jagodic	KI
Tumor evolution and metastasis: finding drivers among neutral mutation	Mattias Höglund	LU
Deciphering sex differences in the human immune system	Nils Landegren	UU
AI-guided phenomics screening for combination treatments	Ola Spjuth	UU
Biodiversity of the Central Arctic Ocean analyzed by metagenomic eDNA	Pauline Snoeijs Leijonmalm	SU
Genetics of songbird migration	Staffan Bensch	LU
Evolution of a classic supergene	Tanja Slotte	SU
Genome-scale classification of ancient and modern metagenomic data	Tom van der Valk	NRM
Understanding ageing through the lens of the transcriptome	Urban Friberg	LiU