

Program overview

Thursday, 24th of January

10.30	Registration			
12.30	Lunch			
14.45	Welcome: Magnar Bjørås (Falkberget)			
15.00	PL1: Keynote Lecture: <i>How fish colour their skin: A paradigm for development and evolution of adult patterns.</i> Christiane Nüsslein-Volhard, Max Planck Inst. for Developmental Biology, Germany. Chaired by Trude Flo (Falkberget)			
15.45	PL2: <i>Evolution of Mammalian Diving Capacity Traced by Myoglobin Net Surface Charge.</i> Michael Berenbrink, Inst. of Integrative Biology, University of Liverpool, UK. Chaired by Sjannie L Nillson (Falkberget)			
16.30	Exhibition			
17.00	Paralell Minisymposium Session 1			
	1. Inflammation (Falkberget) Chair: Magnus Steigedal	2. Biotechnology (Christianus) Chair: Tore Brembu	3. Biochemistry/ Structural Biology (Sextus) Chair: Bjørn Dalhus	4. Cancer (Kinoen) Chair: Marit Otterlei
17.00	M1. <i>Lysine-specific demethylase 1A (LSD1) as the master regulator of Paneth cell differentiation.</i> Rosalie Zwiggelaar	M5. <i>Production of acetoin from methanol in genetically engineered Bacillus methanolicus.</i> Eivind Bøe Drejer	M9. <i>Characterization of the light-harvesting complex in the ALB3b knock out lines of the diatom Phaeodactylum tricornutum.</i> Charlotte Volpe	M13. <i>The APIM-peptide: A novel PCNA-targeting anti-cancer drug.</i> Caroline K.Søgaard
17.15	M2. <i>The TLR4 adaptor TRAM controls the phagocytosis of Gram-negative bacteria by interacting with the Rab11-family interacting protein 2.</i> Harald Husebye	M6. <i>Modelling in the molecular life sciences – Building a responsible modelling community.</i> Rune Kleppe	M10. <i>14F7, an antibody that recognise a tumour-specific ganglioside.</i> Hedda Johannesen	M14. <i>Preclinical efficacy of the MTH1 inhibitor karonudib in B-cell lymphoma.</i> Thea Kristin Våtsveen
17.30	M3. <i>Anti-proliferative and anti-inflammatory effects of inhibiting cytosolic phospholipase A2 in combination with calcipotriol for the treatment of psoriasis.</i> Felicity J Ashcroft	M7. <i>Developing methods for high throughput screening of 3D cell culture.</i> Hanne Haslene-Hox	M11. <i>An insight into DNA scanning by DNA base repair proteins – a single-molecule approach.</i> Ahrash Ahmadi	M15. <i>Metalloproteinase (Mmp)-17 affects intestinal stem cell regeneration after irradiation in the intestine.</i> Sigrid Hoel
17.45	M4. <i>Invariant chain regulates endosomal fusion and endosome maturation.</i> Azzurra Margiotta	M8. <i>Inhibiting mutagenesis by targeting the DNA sliding clamps.</i> Synnøve Brandt Ræder	M12. <i>Regulation of protein synthesis through methylation of human eukaryotic elongation factor 1 alpha (eEF1A).</i> Pål Ø. Falnes	M16. <i>The role of PARP1 in cAMP-mediated induction of DNA-damage induced autophagy in pediatric acute lymphoblastic leukemia.</i> Nina Richartz

18.00	Exhibition
18.30	Poster Session 1 (odd numbered posters are presented)
19.30	Break
20.00	Dinner

Friday, 25th of January

07.00	Breakfast			
09.00	PL3: The EMBO Keynote Lecture: <i>Imaging Immunity – Using Multiplex 2D and 3D Imaging to Develop a Spatiotemporal Understanding of Host Defense.</i> Ronald N. Germain, Laboratory of Immune System Biology, NIH, USA. Chaired by Oddmund Bakke (Falkberget)			
09.45	PL4: <i>Using Protein Kinase Signaling of DNA Damage and Mitosis for Precision Cancer Medicine: Multi-Omics and Computational Approaches.</i> Michael B. Yaffe, Center for Precision Cancer Medicine, MIT, USA. Chaired by Marit Otterlei (Falkberget)			
10.30	Exhibition			
11.00	PL5: <i>Outsourcing cancer immunity to healthy donors.</i> Johanna Olweus, K.G. Jebsen Centre for Cancer Immunotherapy, UiO, Norway. Chaired by Anne-Marit Sponaas (Falkberget)			
11.45	PL6: The FEBS National Lecture: <i>DNA Demethylation, Chromatin Plasticity and Cancer.</i> Primo Leo Schär, Dept. of Biomedizin, University of Basel, Switzerland. Chaired by Magnar Bjørås (Falkberget)			
12.30	Lunch			
14.00	Paralell Minisymposium Session 2			
	5. Microbiology (Falkberget) Chair: Ingrid Bakke	6. Physiology/ Neurobiology (Christianus) Chair: Menno Witter	7. Biochemistry/ Structural Biology (Sextus) Chair: Trygve Brautaset	8. Cell Biology/ Molecular Biology (Kinoen) Chair: Lars Hagen
14.00	M17. <i>The effect of rearing water treatments on the microbiota associated with cod larvae.</i> Ragnhild I. Vestrum	M23. <i>Biophysical and structural studies of a protein complex involved synthesis and vesicular packing of dopamine.</i> Svein Isungset Støve	M29. <i>Interaction between the actin N-terminal acetyltransferase NAA80 and PFN2.</i> Rasmus Ree	M35. <i>Enhanced Antibody Validation.</i> Marko Sankala
14.15	M18. <i>Using the SpyCatcher-SpyTag technology for topology mapping of outer membrane proteins in Gram-negative bacteria.</i> Jack C. Leo	M24. <i>A germline homozygous mutation in human Oxidation Resistance 1 gene cause developmental delay, epilepsy and cerebellar atrophy.</i> Xiaolin Lin	M30. <i>Elucidating the role of co-chaperone DNAJC12 in neurometabolic disease.</i> Marte I. Flydal	M36. <i>Serum generates large scale contraction waves at epithelial edges.</i> Stig Ove Bøe
14.30	M19. <i>Global assessment of Mycobacterium avium subspecies hominissuis genetic requirement for growth and virulence.</i> Niruja Sivakumar	M25. <i>Micro- and mesoscale dynamics of engineered neural networks in response to Parkinson's related pathology.</i> Ioanna Sandvig	M31. <i>Crystal structure of the second isoform of human phosphoglucomutase-1 (PGM1) and its substrate and product complexes.</i> Paul Hoff Backe	M37. <i>Cultured meat-a feeding strategy based on cell biology.</i> Sissel Beate Rønning

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14.45	M20. Bacterial adhesion to living and non-living surfaces. Dirk Linke	M26. Coding mechanisms and neural plasticity in the olfactory system: Lessons we can learn from a miniature insect brain. Elena Ian	M32. FAM173B is a mitochondrial methyltransferase that targets mitochondrial ATP synthase to optimize its function. Jędrzej Małecki	M38. cPLA2α – a major fibrosis regulator and potent therapeutic target in chronic kidney disease Linn-Karina Selvik
15.00	M21. Deciphering the carbon distribution in metabolic pathways during antibiotic production by <i>Streptomyces superhost</i> strains using 13C-isotope-labeling experiments. Kanhaiya Kumar	M27. Spike characterization of olfactory local interneurons and projection neurons. Jonas Hansen Kymre	M33. CompACT: the complex N-terminal maturation processing of β-actin. Adrian Drazic	M39. Actin N-terminal acetylation impacts Golgi structural integrity. Tobias B. Beigl
15.15	M22. Insights into the role of modularity in lytic polysaccharide monoxygenase (LPMO) functionality. Zarah Forsberg	M28. Structure and function of individual projection neurons and centrifugal neurons in the male moth brain. Christoffer Berge	M34. NAD highlights new metabolic interplays between mitochondria and peroxisomes Magali VanLinden	M40. IAP antagonists shift human osteoclastogenesis to cell death. Ingrid Nyhus Moen
15.30	Exhibition			
16.00	Paralell Minisymposium Session 3			
	9. Cancer/ Immunology (Falkberget) Chair: Sjannie L Nilsson	10. Bioinformatics/ Genomics (Christianus) Chair: Vidar Beisvåg	11. Genome dynamics (Sextus) Chair: Hilde Nilsen	
16.00	M41. There is a battle between the immune system and cancer. The Nobel Prize in Physiology or Medicine 2018 Inger Sandli	M45. NorSeq: The Norwegian Consortium for Sequencing and Personalized Medicine. Robert Lyle	M51. Transcription-associated AAG-initiated base excision repair regulates gene expression. Barbara van Loon	
16.15		M46. ELIXIR.NO - The national infrastructure for bioinformatics. Morten Rye	M52. Direct PCNA interactions via APIM are important for the RAD5 homologues' role in regulating DNA damage tolerance. Mareike Seelinger	
16.30		M47. Online platform for biological network analysis in ELIXIR. André Voigt	M53. Mitophagy inhibits proteinopathies and cognitive deficits in experimental models of Alzheimer's disease. Evandro F. Fang	

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16.45	M42. <i>Cd74, invariant chain, a master regulator of the antigen loading compartment, the immunoendosome?</i> Oddmund Bakke	M48. <i>Genome-scale metabolic modeling: Metabolic engineering to increase production of nylon precursors in Pseudomonas.</i> Christian Schulz	M54. <i>Centromeres License the Mitotic Condensation of Yeast Chromosome Arms.</i> Pierre Chymkowitch
17.00	M43. <i>Uracil-DNA Glycosylase UNG1 Isoform Variant Supports Class Switch Recombination and Repairs Nuclear Genomic Uracil.</i> Antonio Sarno	M49. <i>High-throughput screening identifies synergistic drug combinations in colorectal cancer cell lines.</i> Evelina Folkesson	M55. <i>Synthetic lethality between DNA repair factors Xlf and Paxx is rescued by inactivation of Trp53.</i> Sergio Castañeda Zegarra
17.15	M44. <i>A role for immunoglobulins in the osteolytic bone disease of multiple myeloma.</i> Marita Westhrin	M50. <i>The Epigenetic landscape of two phenotypic extreme skeletal muscles - Soleus and EDL.</i> Mads Bengtzen	M56. <i>Genetic interaction between non-homologous end joining factors in mice and human.</i> Mengtan Xing
17.30	Exhibition		
18.00	Poster Session 2 (even numbered posters are presented)		
19.00	Break		
20.00	Dinner		

Saturday, 26th of January

07.00	Breakfast		
09.00	Outdoor activities		
12.00	Lunch		
13.30	PL7: Epitranscriptomic regulation in the mammalian nervous system. Hongjun Song, Dept. of Neuroscience, Perelman School of Medicine at the University of Pennsylvania, USA. Chaired by Magnar Bjørås (Falkberget)		
14.15	PL8: Lysosomes as targets for cancer therapy. Marja Jäättelä, Inst. of Integrative Biology, University of Liverpool, UK. Chaired by Lene M Grøvdal (Falkberget)		
15.00	Exhibition		
15.30	Innovation Session (Falkberget) Chaired by Trygve Brautaset		
15.30	IS1: How can you make the most impact out of your research results? Tonje Steigedal, NTNU TTO.		
15.45	IS2: Can they, can I. Inger Sandli, Dept. of Biosciences, UiO.		
16.00	IS3: The APIM-story; from discovery of a motif to medical application. Marit Otterlei, Dept of Clinical and Molecular Medicine, NTNU.		
16.15	IS4: Designing small RNA-mediated gene. Pål Sætrum, Dept of Clinical and Molecular Medicine, NTNU.		
16.30	Exhibition		
17.00	Paralell Minisymposium Session 4		
	12. Biotechnology/ Bioinformatics (Christianus) Chair: Marit Otterlei	13. Epigenome/ epitranscriptome (Sextus) Chair: Pål Falnes	14. Cell Biology/ Molecular Biology ("Plenumssal Hotell") Chair: Lene M Grøvdal
17.00	M57. Use of OGG1 inhibitors to alleviate inflammation and treat cancer. Torkild Visnes	M61. Unraveling the functional role of Lsd1 in murine intestinal development. Emilie Kvaløy	M65. A structurally unresolved loop improves the affinity of an essential human NAD biosynthetic enzyme for its substrate. Dorothee Houry
17.15	M58. The genes controlling citrate and spermine secretion in the prostate. Morten Rye	M62. Dynamic epitranscriptomic marks; critical regulators of meiosis and the developing brain. Arne Klungland	M66. Molecular mechanisms of ESCRT recruitment to damaged endolysosomal membranes. Maja Radulovic
17.30	M59. SynPromU - a new enabling technique for gene expression. Lisa Tietze	M63. SMUG1 - a classical DNA glycosylase and an RNA processing enzyme. Hilde Nilssen	M67. Critical Nodes of Viral Modulation Revealed Through an Integrated Network Analysis of Host-Virus Interaction Landscape. Korbinian Bösl
17.45	M60. Isolation and characterization of potential immune modulating proteins from <i>Methylococcus capsulatus</i> (Bath). Kristin Hovden Aaen	M64. Non-canonical roles of DNA glycosylases removing oxidative DNA base lesions in brain. Magnar Bjørås	M68. Esterases, "hubs" in biology. Lars Jordhøy Lindstad

18.00	NBS General Assembly (Christianus)	NFF General Assembly (Sextus)
19.00	Break	
19.30	Reception	
20.00	Banquet (Falkberget)	