

Week 1 Schedule; NCMM Molecular Medicine Research Course

Date	Day/Room	Time	Topic	Title	Lecturer
07.11.2022	Mon Hagen 1+2	09.00 – 09.10	Organizational	Info & organization	Emma Haapaniemi
Session: Computational Biology Chair: Dr Anthony Mathelier					
07.11.2022	Mon Hagen 1+2	09.10-09.15	Brief introduction of speakers		Anthony Mathelier
07.11.2022	Mon Hagen 1+2	09.15 – 10:00	Computational Biology	Computational Biology of Adaptive Immunity	Victor Greiff
07.11.2022	Mon Hagen 3	10.15 – 12.00	Student poster session		All students
07.11.2022	Mon Hagen 1+2	12:15 – 13:45	Computational Biology	Novel analytics in personalized medicine A network approach to personalized medicine	Anthony Mathelier Marieke Kuijjer
07.11.2022	Mon Hagen 1+2	14.00 – 15.45	Computational Biology	Germline vs somatic mutations: commonalties, distinctions, and interplay - Lecture title TBC	Sebastian Waszak Valeria Vittelli
Session: Disease Mechanisms Chair: Dr Nikolina Sekulic					
08.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Nikolina Sekulic
08.11.2022	Tue Hagen 1+2	09.05 – 10.45	Disease Mechanisms	Lecture title TBC Lecture title TBC	Deo Prakash Pandey Arne Klungland

08.11.2022	Tue Hagen 1+2	11.00 – 12.45	Disease Mechanisms	Epigenetics and chromatin structure Lecture title TBC	Nikolina Sekulic Biswajyoti Sahu
08.11.2022	Tue Hagen 1+2	14.00 – 15.45	Disease Mechanisms	Lecture title TBC Lecture title TBC	Joel Glover Ragnhild Eskeland
Session: Imaging Disease Chair: Dr Biswajyoti Sahu					
09.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Biswajyoti Sahu
09.11.2022	Wed Hagen 1+2	09.05 – 10.45	Imaging disease	Translational Molecular Imaging in Cancer Lecture title TBC	Emmet Mc Cormack Rune Enger
09.11.2022	Wed Hagen 1+2	11.00 – 12.45	Imaging disease	Lecture title TBC The NorMIC Imaging Platform	Lassi Paavolainen Edna Xian Hu
09.11.2022	Wed Hagen 1+2	14.00 – 15.45	Imaging disease Structure based drug discovery	Brain MR imaging in schizophrenia and bipolar disorder Basics of Chemical Biology and High throughput screening	Ole Andreassen Johannes Landskron
Session: Biobanks, Health registries and Biomarker Discovery Chair: Dr Sebastian Waszak					
10.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Sebastian Waszak
10.11.2022	Thu Hagen 1+2	09.05 – 10.45	Biobanks, health registries and biomarker discovery	Cancer biomarkers: from discovery to clinical practice Predictive medicine: Use of health registries and epidemiology	Helga Bergholtz Trude Eid Robsahm

10.11.2022	Thu Hagen 1+2	11.00 – 12.45	Biobanks, health registries and biomarker discovery	Use of population biobanks to understand human disease Lecture title TBC	Kristian Hveem
10.11.2022	Thu Hagen 1+2	14.00 – 15.45	Imaging disease	Imaging cardiovascular diseases in animal models and patients	Magnus Aronsen William Louch
Session: Animal Models of Disease Chair: Dr Camila Esguerra					
11.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Camila Esguerra
11.11.2022	Fri Hagen 1+2	09.05 – 10.45	Animal Models of Disease	Drosophila models of disease – what fruit flies can teach us The use of zebrafish to model and understand mechanisms underlying neurological disorder	Helene Knævelsrud Camila Esguerra
11.11.2022	Fri Hagen 1+2	11.00 – 12.45	Animal Models of Disease	Disease mechanisms and animal models of cardiovascular disease Modelling diseases in pigs	Andreas Romaine Jean-Luc Boulland
11.11.2022	Fri Hagen 1+2	13.30 – 15.15	Animal Models of Disease	Molecular and viral strategies (DREADDs, etc) Stem cells and organoids	Solomiia Korchynska Stefan Krauss

Week 2 Schedule; NCMM Molecular Medicine Research Course

Date	Day/Room	Time	Topic	Title	Lecturer
Session: Tailored and Personalized Medicine Chair: Prof Janna Saarela					
14.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Janna Saarela
14.11.2022	Mon Hagen 1+2	09.05 – 10.45	Tailored and personalized medicine	Introduction to Precision Medicine Precision cancer medicine, implementation and the IMPRESS-Norway trial	Janna Saarela Kjetil Taskén
14.11.2022	Mon Hagen 1+2	11.00 – 12.45	Tailored and personalized medicine	Precision medicine in everyday practice - rare diseases Lipid vesicles and lipid nanoparticles for drug delivery and vaccination	Dag Undlien Irep Gözen
14.11.2022	Mon Hagen 1+2	14.00 – 15.45	Tailored and personalized medicine	Drug sensitivity testing and personalized medicine in leukemia	Krister Wennerberg Bjørn Tore Gjertsen
Session: Advanced cell- based therapies Chair: Dr Emma Haapaniemi					
15.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Emma Haapaniemi
15.11.2022	Tue Hagen 1+2	09.05 – 10.45	- Advanced cell-based therapies	Cell based therapies – Laboratory workflow and clinical practice Cell-based therapies currently in clinical use	Else Marit Inderberg Hans Christian Erichsen
15.11.2022	Tue Hagen 1+2	11.00 – 12.45	- Advanced cell-based therapies	Introduction to use of gene editing/CRISPR	Emma Haapaniemi Cecilie Bredrup

15.11.2022	Tue Hagen 1+2	14.00 – 15.45	- Advanced cell-based therapies	National Centre for Advanced Cell Therapy and clinical trials T cell-based immunotherapy in cancer	Karl-Johan Malmberg Morten Milek Nielsen
Session: Virology & Immunology Chair: Dr Irep Gözen					
16.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Irep Gözen
16.11.2022	Wed Hagen 1+2	09.05 – 10.45	Virology & Immunology	Vaccine strategies SARS-CoV-2 replication, detection and drug targeting	Gunnveig Grødeland Christine Hanssen Rinaldo
16.11.2022	Wed Hagen 1+2	11.00 – 12.45	Virology & Immunology	Covid modelling	Arnoldo Frigessi Mari Kaarbø
16.11.2022	Wed Hagen 1+2	14.00 – 15.45	Tailored and personalized medicine	Lecture title TBC	Elisabeth Widen Samuli Ripatti
Session: Virology & Immunology. Disease Mechanisms, Neuroscience Chair: Dr Anna Komisarczuk					
17.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		
17.11.2022	Thu Hagen 1+2	09.05 – 10.45	Virology & Immunology Virology & Immunology	Lecture title TBC Lecture title TBC	Johanne Jacobsen Bjørn Steen Skålhegg
17.11.2022	Thu Hagen 1+2	11.00 – 12.45	Neuroscience	Lecture title TBC Mechanisms of autoimmunity	Christoffer Laustsen Rasmus Iversen

17.11.2022	Thu Hagen 1+2	14.00 – 15.45	Disease mechanisms	Gut and liver inflammation	Espen Melum <i>Early finish</i>
Session: Neuroscience Chair: Dr Charlotte Boccara					
18.11.2022	Tue Hagen 1+2	09:00 – 09:05	Brief introduction of speakers		Charlotte Boccara
18.11.2022	Fri Hagen 1+2	09.05 – 10.45	Neuroscience	Lecture title TBC Imagination and its neuropsychological deficits	Charlotte Boccara Alessandro Treves
18.11.2022	Fri Hagen 1+2	11.00 – 12.45	Neuroscience	Cerebellum (lecture title TBC) Lecture title TBC	Cathrin Canto Dori Derdikman
18.11.2022	Fri Hagen 1+2	13.00 – 13.45	Neuroscience	Lecture title TBC	Benjamin Adric Dunn
18.11.2022	Fri Hagen 1+2	14.00	Organizational	Summary course & Pizza	Charlotte Boccara

NCMM Molecular Medicine Research Course

Course no.: MF9120BTS - Molecular Medicine (national PhD-level course)

Time: November 7-18, 2022

Place: [Oslo Science Park](#), Level 0, Room: Hagen 1+2

Organized by: Centre for Molecular Medicine Norway, Nordic EMBL Partnership, University of Oslo and Oslo University Hospital

Contacts:

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