Tuesday, May 17, 2022

9:00 am - 12:00 pm ProteoCure Management Committee meeting (Management Committee and Core Group members only)

10 - 12:30 pm **Participants arrival and registration**

12:45 - 1:00 pm **Welcome message** *(Olivier Coux and Rosa Farràs)*

1:00 - 3:30 pm **Session 1: Proteostasis in acute and chronic disease** *(Chairs: Christian Gaiddon and Niki Chondrogianni)*

1:00 - 1:30 Keynote lecture	**NEURONS UNDER STRESS: CELL TYPE-SPECIFIC PROTEOSTATIC RESPONSES IN NEURODEGENERATIVE DISEASES** ***Wiep Scheper*** *(C. for Neurogenomics& Cognitive Research, NL)*
1:30 - 1:45	Krisztina Tar: The diverse functions of the proteasome activator PA200 to maintain cellular quality control
1:45 - 2:00	Carina Holmberg-Still: Genetic proteasome regulators in health and aging-related disorders
2:00 - 2:15	Ulrike Topf: The role of the molecular co-chaperone prefoldin in maintenance of proteostasis
2:15 - 2:30	Carlos Pipaón González: Role of ubiquitin-like modifications in the physiopathology of Chronic Lymphocytic Leukemia
2:30 - 2:45	Joan Sala-Gaston: The ubiquitin ligase HERC2 regulates C-RAF/MKK3/p38 signalling pathway modulating the cellular oxidative stress response
2:45 - 3:00	Rupert Ecker: Contextual tissue cytometry using precision microscopy with artificial intelligence
3.00 - 3:15	Gilles Lalmanach: Cysteine cathepsins: regulation of their proteolytic balance in pulmonary fibrosis and COPD
3:15 - 3:30	Lydie Combaret: Getting inspired by the wild to elucidate mechanisms of resistance to skeletal muscle atrophy: role of the BMP/TGFβ balance

3:30 - 4:00 pm **Coffee break**

4:00 - 6:30 pm **Session 2: Drugging Proteostasis with small molecules or bioactive compounds** *(Chairs: Regina Menezes and Elah Pick)*

4:00 - 4:30 Keynote lecture	**IN SEARCH OF THE RIGHT TARGETS: HOW CAN WE DEFINE PROTEASE BIOLOGICAL SUBSTRATES** ***Oded Kleifeld*** *(Technion, IL)*
4:30 - 4:45	Joana Isabel Gomes Neto: The deubiquitylase USP31 controls Chromosomal Passenger Complex stability and choreography
4:45 - 5:00	Marie-Pierre Bousquet: Dissecting proteasome diversity using Mass Spectrometry as a swiss army knife - a new target for drugging proteasome activity?
5:00 - 5:15	John Christianson: Targeting ubiquitination machinery at the endoplasmic reticulum
5:15 - 5:30	Germana Meroni: TRIM E3 ubiquitin ligases in rare genetic diseases
5:30 - 5:45	Emmanuelle Liaudet-Coopman: Immunotherapy of triple-negative breast cancer with cathepsin D-targeting antibodies
5:45 - 6:00	Robin Ketteler: Inhibition of USP30 enhances mitophagy in models of Parkinson's disease
6:00 - 6 :15	Guillaume Bossis: Targeting SUMOylation improves Acute Myeloid Leukemias response to treatments
6:15 - 6:30	Yilmaz Sinem: The proteasome activator function of cycloastragenol is dependent on the NRF-2 mediated induction of telomerase activity

6:30 - 7:30 pm **Speed presentations** *: one slide, 3 min., no questions (Chair: Makis Skoulakis)*

Wednesday, May 18, 2022

9:00 - 10:15 am **Session 3: Targeted proteolysis (roles, mechanism and players)** *(Chairs: Rosa Barrio and Michael Glickman)*

9:00 - 9:30 Keynote lecture	**PROXIDRUGS: NEW THERAPEUTICS FOR MULTIPLE DISEASES** ***Ivan Dikic*** *(Goethe University Frankfurt, DE)*
9:30 - 9:45	Carmen Rivas: Ubiquitin Like proteins in Viral Host Response
9:45 - 10:00	Andreas Bachmair: targeted proteolysis pathways that employ N-terminal degradation signals relevant for UPP and autophagy)
10:00 - 10:15	Sabine Schipper-Krom: Screening platform to identify mutant huntingtin lowering genes and compounds

10:15 - 10:45 am **Coffee break**

10:45 - 11:00	Alfred Vertegaal: The Proteomics landscape of SUMO
11:00 - 11:15	Simona Polo: Hecw controls oogenesis and neuronal homeostasis by promoting the liquid state of ribonucleoprotein particles
11:15 - 11:30	Tommer Ravid: Conserved degronome features governing quality control-associated proteolysis
11:30 - 11:45	Georgia Chachami: Interplay between sumoylation and transcriptional regulation in the cellular response to hypoxia
11:45 - 12:00	James Sutherland: Biotin proteomics Identification of ubiquitin-like-dependent interactors using biotin-based proximity proteomics

12:00 - 1:00 pm **Standing lunch & poster session**

1:00 - 3:30 pm **Session 4: Proteostasis at the interface between discovery science, the clinic and pharma** *(Chairs: Colin Adrain and Klaudia Brix)*

1:00 - 1:30 Keynote lecture	**USING ARTIFICIAL INTELLIGENCE TO DISCOVER, OPTIMIZE AND VALIDATE TARGETED PROTEIN DEGRADERS - THE CURRENT STATE OF WHAT'S POSSIBLE** ***Nik Subramanian*** *(Kantify, BE)*
1:30 - 1:45	Dan Longley: Development and clinical positioning of a USP7 inhibitor - online conference
1:45 - 2:00	Sandra Kumper: Strategies to identify novel E3 Ligases for TPD - online conference
2:00 - 2:15	Lara Cantarero: Mitochondrial membrane contact sites and autophagy in axonopathie
2:15 - 2:30	Elah Pick: Interplay between NEDD8 pathways and the cellular redox state
2:30 - 2:45	Laura Sánchez-Bellver: USP48 as a new candidate gene for retinal ciliopathies
2:45 - 3:00	Kvido Stříšovský: Intramembrane proteolysis, cellular signaling and membrane protein quality control
3:00 - 3:15	Jyotsna Batra: Effects of genetic variation on functionality of Kallikrein 3 (PSA) in prostate cancer
3:15 - 3:30	Gustavo J. Gutierrez: Developing Targeted Protein Degradation modalities in biotechs/pharmas

3:30 - 4:00 pm **Coffee break**

4:00 - 5:00 pm **Speed presentations** *one slide, 3 min., no questions (Chair: Marina Klemenčič)*

5:00 - 6:00 pm **Plenary lecture** *(Chairs: Rosa Farràs and Olivier Coux)*

CYSTEINE CATHEPSINS: GOOD, BAD AND NOT UGLY

Boris Turk (Ljubljana, SI)

6:00 -6:30 pm **Conclusions**

20:00 - ... **Gala dinner**

Thursday, May 19, 2022

9:00 - 10:15 am **Working groups: what has been done and what should be done ?** *(Chairs: Christine Blattner and Manuel Rodriguez)*

10:15 - 10:45 am **Coffee break**

10:15 am - 12:00 pm **Working groups: what has been done and what should be done ?** *(Chairs: Christine Blattner and Manuel Rodriguez)*