



3rd TRANSAutophagy CA15138 Annual Meeting 2019

Date: April 23-25, 2019

Venue: Sofia Hotel Balkan, 5 Sveta Nedelya Square, Sofia 1000 Bulgaria

DAY 1 (23/04/19)

17:00-18:00 Registration

18:30-19:30 TRANSAUTOPHAGY action participant meeting

James Murray (Chair) presents the action, changes in the coordination and the new program for this Grant Period.

20:00 Diner

DAY 2 (24/04/19)

08:15-09:00 Registration

09:00-09:10 Welcome note by Cecile Vindis (Vice Chair)

Session 1 Chair: Jon Lane

09:10-09:20 Plenary 1-WP1 short introduction by **Jon Lane** leader of WP1

09:20-10:00 Keynote 1 lecture from expert

Isabelle Vergne, Institute of Pharmacology and Structural Biology, CNRS, Toulouse, France.

“Autophagy and mycobacterial infection: a lipid perspective”

10:00-10:15 Keynote 2

Belém Sampaio-Marques, Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, Braga, Portugal. | “Alpha-synuclein induces DNA damage and autophagy degradation of ribonucleotide reductase 1 in yeast and human cells.”

10:15-10:30 Keynote 3

Beatriz Castejón Vega, Cell Biology Laboratories, School of Biochemistry, University of Bristol, Bristol, UK “Autophagy dysfunction and lysosomal permeabilisation in Tay-Sachs disease.”

10:30-10:45 Keynote 4

Prasad Sulkshane, Faculty of Biology, Technion-Israel Institute of Technology, Haifa, Israel “Autophagy and Ubiquitin Proteasomal System converge to eliminate oxidation-damaged mitochondria.”

10:45-11:15 Coffee Break

Session 2 **Chair: Tassula Proikas-Cezanne**

11:15-11:25 Plenary2-WP2 short introduction by **Tassula Proikas-Cezanne** leader of WP2

11:25-12:05 Keynote 5 lecture from expert

Jon Lane, Cell Biology Laboratories, School of Biochemistry, University of Bristol, Bristol, UK

“LIM homeodomain transcription factor autophagy crosstalk defines human midbrain dopaminergic neuronal resilience.”

12:05-12:20 Keynote 6

Katharina Sporbeck, Institute of Cell Biology, Department of Molecular Biology, Tübingen, Germany “ATG-18 and EPG-6 are Both Required for Autophagy but Differentially Contribute to Lifespan Control in *Caenorhabditis elegans*.”

12:20-12:35 Keynote 7

Soren Hayrabedian Laboratory of Reproductive OMICs Technologies, Institute of Biology and Immunology of Reproduction “Acad. Kiril Bratanov” - Bulgarian Academy of Sciences, Sofia, Bulgaria “TLR4/NOD1-2 interplay in Sertoli cells modulates autophagy-inflammasome interactions, autophagy flux, and perturbs testis niche immune tolerance and inflicts cell death via a noncanonical functional inflammasome network.”

12:35-12:50 Keynote 8

Frank Lafont INSERM U1019, CHU Lille, Institut Pasteur de Lille, France

“Autophagy during the early stages of infection.”

12:50-14:30 **Lunch**

Session 3 **Chair: Benjamin Dehay**

14:30-14:40 Plenary3-WP3 short introduction by Agnieszka Sirko vice leader of WP3

14:40-15:20 Keynote 9 lecture from expert

Agnieszka Sirko, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland “Function of the selective autophagy cargo receptor NBR1 in plants”.

15:20-15:35 Keynote 10

Yolanda Pérez-Pérez, Pollen Biotechnology of Crop Plants, Biological Research Center, CIB-CSIC, Madrid, Spain, “Targeting autophagy and protease activities with small molecule modulators to reduce cell death and to improve microspore embryogenesis initiation in rapeseed and barley.”

15:35-15:50 Keynote 11

Eduardo Berenguer, Pollen Biotechnology of Crop Plants, Biological Research Center, CIB-CSIC, Madrid, Spain, “Involvement of metacaspases and autophagy in stress-induced cell death at early microspore embryogenesis of brassica napus.”

15:50-16:35 Coffee Break

16:45-18:45 Poster Session / Discussion World Cafe

Keynote Chair: Krassimira Todorova

**19:00-19:45 Keynote Lecture by Dr. Patrice Codogno, Institut Necker Enfants-Malades, INSERM U1151-CNRS UMR 8253 Université Paris Descartes-Sorbonne, Paris, France
"Autophagy: history and memory "**

20:00 Social Dinner

DAY 3 (25/04/19)

Session 4 Chair: Soren Hayrabedyan

08:30-08:40 Plenary4-WP4 short introduction by Guillermo Velasco Diez leader of WP4

08:40-09:20 Keynote 12 lecture from expert

Guillermo Velasco Diez, Department of Biochemistry and Molecular Biology, School of Biology, Complutense University, Madrid, Spain "Cannabinoids and autophagy: an unexpected couple with potential therapeutic implications in oncology. "

09:20-09:35 Keynote 13

Laine-Menéndez Sara, Mitochondrial and Neuromuscular Diseases Laboratory, Hospital Universitario 12 de Octubre Research Institute, Madrid, Spain "Apoptosis Inducing Factors deficiency and exercise training effects on cardiac autophagy: insights from the Harlequin mouse.

09:35-09:50 Keynote 14

Magali Humbert, Institute of Pathology, University of Bern, Bern, Switzerland "Macroautophagy-mediated degradation of Fatty Acid Synthase (FASN) leads to TFEB activation during granulocytic differentiation of acute myeloid leukemia (AML) cells. "

09:50-10:05 Keynote 15

Bassam Janji, Laboratory of Experimental Cancer Research, Tumor Microenvironment group, Department of Oncology. Luxembourg Institute of Health (LIH), Luxembourg "Impact of targeting autophagy on the immune landscape of tumors. "

10:05-10:25 Coffee Break

Session 5 Chair: Maria Moran

10:25-10:35 Plenary5-WP5 short introduction by Maria Moran leader of WP5

10:35-11:15 Keynote 16 lecture from expert

Heinz Jungbluth, Professor of Paediatric, Neurology at King's College London. UK:

"Congenital disorders of autophagy – a novel class of neurometabolic disorders linking neurodevelopment and neurodegeneration."

11:15-11:30 Keynote 17

Teresa Sardon Principal Investigator at Anaxomics Biotech SL

"Systems biology applied to translational research."

11:30-11:45 Keynote 18

Vega-Rubín-de-Celis Silvia DKFZ. Molecular Genome Analysis Division. Im Neuenheimer Feld, Heidelberg, Germany "Inhibition of HER2 tumorigenesis by Beclin 1 and an autophagy-inducing peptide."

11:45-12:00 Keynote 19

Montpeyó Maria, Neurodegenerative Diseases Group. Vall d'Hebron Research Institute (VHIR), Barcelona, Spain "Therapeutic restoration of lysosomal GBA activity in a novel Parkinson's diseases model."

12:00-12:15 Poster and Oral Communication awards

Closing words by James Murray

12:15-16:00 Lunch / MC Meeting

Departure