

PROGRAM -8th ENOR Congress

20-21 September 2018

UNIONE Alma Mater Studiorum-Universita' di Bologna

Via Azzo Gardino 33, 40122 Bologna (Italy)

September 20th 2018

- 8.30-9.00 Registration
- 9.00-9.15 Opening Session: M.T. Rodriguez-Estrada, I. Iuliano, G. Lizard
- 9.15-10.00 Plenary Session

Vesa M. Olkkonen (*Minerva Foundation Institute for Medical Research, Helsinki, Finland*). The enigmatic OSBP/ORP protein family: From countercurrent inter-organelle transport of lipids to cell signaling

10.00-10.45 **Coffee break - Poster session**

SESSION 1: Analytical profiling of oxysterols and sterols

- 10.45-11.05 **William J. Griffiths** (*Swansea University Medical School, UK*). Imaging oxysterols in brain using on tissue derivatisation and LC-MS
- 11.05-11.25 **Hanne Røberg-Larsen** (*University of Oslo, Norway*). Rapid determination of oxysterols in breast cancer tumors
- 11.25-11.45 **Ruth Andrew** (*University of Edinburgh, UK*). Derivatisation strategies for analysis of estrogen by liquid chromatography tandem mass spectrometry
- 11.45-12.05 **Silke Matysik** (*University Hospital Regensburg, Germany*). Determination of sterols in human faeces by LC-MS/MS and GC-MS/MS
- 12.05-12.25 **Valerio Leoni** (*Hospital of Varese, Italy*). Effect of diet composition on sterols and oxysterols profile in healthy adult

SESSION 2: Sterols as metabolic precursors in food and microorganisms

- 12.25-12.45 **Folke Sitbon** (*Swedish University of Agricultural Sciences, Uppsala, Sweden*). Cholesterol as a metabolic precursor to the toxic glycoalkaloids in potato plants - a role for hydroxysterol metabolism?

12.45-13.05 **Andrei A. Gilep** (*Institute of Bioorganic Chemistry, Minsk, Belarus*). Exploring the metabolic pathways of delta-7 steroids in vertebrates and pathogenic microorganisms

13.05-14.35 **Lunch - Poster session**

SESSION 3: Oxysterols and neurodegenerative diseases

14.35-14.55 **Ingemar Bjorkhem** (*Karolinska Institutet, Stockholm, Sweden*). On the origin of 24S-hydroxycholesterol in CSF in neurodegenerative disorders. Evidence for a parallel release of this oxysterol and Tau into CSF in patients with corticobasal degeneration

14.55-15.15 **Julien Saint-Pol** (*Artois University, Lens, France*). Oxysterols and the NeuroVascular Unit: a far true love with light and dark sides

15.15-15.35 **Dieter Lütjohann** (*University Clinics Bonn, Germany*). Increase of the plasma ratio of 24S-hydroxycholesterol (cerebrosterol) to cholesterol during low dose anti-PCSK9 antibody therapy. PCSK9 inhibition indirectly affects cholesterol turnover in the human brain

15.35-15.55 **Irundika Dias** (*Aston University, Birmingham, UK*). Oxysterols are increased in brain mitochondria from patients with Alzheimer's disease

15.55-16.05 **Silvia Maioli** (*Karolinska Institutet, Stockholm, Sweden*). CYP46A1 overexpression induces sex-specific changes in synaptic functions in aged mice

16.05-16.35 **Coffee break- Poster session**

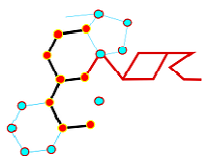
SESSION 4: Oxysterols and enzymes

16.35-16.55 **Giuseppe Poli** (*University of Turin, Italy*). Cholesterol oxidation between health and disease: focus on the antiviral properties of enzymatic oxysterols

16.55-17.15 **Natalia V. Strushkevich** (*Institute of Bioorganic Chemistry, Minsk, Belarus*). Human oxysterol hydroxylases: structural and functional insights into substrate specificity

17.15-17.35 **Ryan G. Snodgrass** (*Goethe-University Frankfurt, Germany*). A novel function for 15-lipoxygenases in cholesterol homeostasis and CCL17 production in human macrophages

19.30 **Dinner**



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SESSION 5: Oxysterols and cancer

- 9.00-9.20 **Marc Poirot** (*University of Toulouse, France*). Oxysterol oncometabolism, nuclear receptors, carcinogenesis and food.
- 9.20-9.40 **Samantha A. Hutchinson** (*University of Leeds, UK*). Innate chemo-resistance in breast cancer driven by LXR signalling
- 9.40-10.00 **Maura Marinozzi** (*University of Perugia, Italy*). *Audentes fortuna iuvat*: a still young, but already promising medicinal chemistry project targeting Liver X Receptors
- 10.00-10.20 **Manuela Pacciarini** (*Université Clermont Auvergne, France*). Effects of Cannara red onion extracts on the survival of cultured LNCaP cells
- 10.20-10.50 **Coffee break- Poster session**
- 10.50-11.20 **Erik R. Nelson** (*University of Illinois, Urbana-Champaign, USA*). 27-Hydroxycholesterol integrates the endocrine and immune systems to promote metastasis
- 11.20-11.40 **Othman Ghribi** (*University of North Dakota, USA*). 27-hydroxycholesterol decreases cell proliferation in colon cancer cell lines
- 11.40-12.00 **Julio Buñay** (*Université Clermont Auvergne, France*). Exposure to endocrine-disrupting chemicals in prostate cancers cell lines promotes cell migration and alteration of the lipogenic program

SESSION 6: Sterols and oxysterols: other health-related roles

- 12.00-12.20 **Florian C. Kurschus** (*Heidelberg University Hospital, Germany*). The role of EBI2 in skin inflammation
- 12.20-12.40 **David H. Volle** (*Université Clermont Auvergne, France*). Bile acids and testis: new insights!
- 12.40-14.10 **Lunch - Poster session**
- 14.10-14.40 **Poster Awards**

14.40-15.20 **ENOR's general assembly and concluding remarks** (M.T. Rodriguez-Estrada, I. Iuliano, G. Lizard)