***Program***

**11th ENOR Symposium – Web Meeting**

***21-22 September 2022***

**All times CET**

**Oral communications (10 minutes presentation + 5 minutes questions)**

**Flash talks (5 min per talk + 10 minutes at the end of presentations)**

**DAY 1**

**08:45 -09:00** Opening messages from Home Chair (Gérard Lizard and Luigi Iuliano)

SESSION 1 : Metabolism

**09:00 – 09:45 Oral communications**

OC1 Silke Matysik - Stratification of patients regarding faecal metabolites with biological activities.

OC2 David Volle - Bile acid signaling pathway in chemosensitivity of testicular germ cells.

OC3 Silia Ayadi - GSTA1-1 is a multifunctional enzyme involved in 5,6α-epoxycholesterol conjugation with biological nucleophiles.

**09:45 – 10:00 Flash Talk**

FT1 Kristina Sæterdal Kømurcu - Oxysterols are secreted from Non-alcoholic Fatty Liver disease induced organoids.

SESSION 2 : Cell signaling

**10:00 – 10:15 Oral communications**

OC4 Gabriele Serreli - *Lactobacillus* strains extracts counteract oxysterols-induced alteration *in vitro* in human intestinal epithelium.

**10:15 – 11:00 Coffee break / comfort break**

**11:00 – 12:00 Flash Talks**

FT2 Maria Nasoni - Secosterol-B induces nitrosative stress and UPR activation in human endothelial cells.

FT 3 Emily Stonelake - Identification of oxysterols related to the Hedgehog signalling pathway during neural development.

FT4 Juuso Taskinen - System wide effects of ER-intracellular membrane contact site disturbance in HUVECs.

FT5 Imen Ghzaiel - 7-ketocholesterol and 7β-hydroxycholesterol-induce ferroptosis in C2C12 myoblasts: attenuation by *Pistacia lentiscus L.* seed oil and α-tocopherol.

**12:00 - 14:00 Lunch**

SESSION 3 : Oxysterol analysis

**14:00 – 14:30 Oral communications**

OC5 Daniela Rojas - *Clinical validation of a liquid chromatography-mass spectrometry (LC-MS/MS) for the quantification of plasma oxysterols in the context of Fragile X Syndrome.*

OC6 Frans Stellaard - The serum LDL-cholesterol – hepatocellular cholesterol concentration gradient as major determinant of the degree of LDL-cholesterol lowering with statin, ezetimibe and combination treatment.

**14:30 – 15:15 Flash Talks**

FT6 Kersti Karu - Phytosterols profiling in human serum using a liquid chromatography tandem mass spectrometry.

FT7 Virginia Blanco-Morales - Oxidative stability of plant sterols in a new enriched bakery product.

FT8 Yaalarasi Baskaran - Developing a novel technique to detect sterol glycosides in plasma – Part 1: De-esterifying plasma cholesterol.

**Day 1 Close**

**DAY 2**

SESSION 4 : Oncology

09:00 - 09:30 Plenary session : Paola Gamba - Focus on 24-hydroxycholesterol in Alzheimer’s diseases : clinical and biological aspects.

**09:30 – 11:00 Oral communications**

OC7 Petr Holý - Concurrent analysis of DNA variation and mRNA expression of oxysterol-related genes and the full miRNome in early luminal breast cancer.

OC8 Giorgia Cioccoloni - Adipocytes protect Triple Negative Breast Cancer cells from chemotherapy via LXR activation.

OC9 Giorgia Cioccoloni - LXR mediates adipocyte induced immune checkpoint in Triple Negative Breast Cancer.

OC10 Philippe de Medina - Chemical synthesis and biological properties of cholestane-5α,6β-diol-3-sulfonate, a non-hydrolyzable analogue of cholestane-5α,6β-diol-3-*O-*sulfate.

OC11 Philippe de Medina - Comparative Studies on the metabolism of 5,6-epoxycholesterol, cholestane-3β,5α,6β-triol and Oncosterone in the cancer cell lines MCF-7, MDA-MB-231 and HEPG2.

OC12 Julio Bunay - Reprogramming tumor cells with the oxysterol, dendrogenin A, to release immunogenic anti-tumor small extracellular vesicles enriched in exosomes.

**11:00 – 11:30 Coffee break / Comfort break**

**11:30 – 12:00 Flash Talks**

FT9 Mengfan Xu - Evidence for liver X receptor splicing in colorectal cancer.

FT10 Régis Soulès - A combined OCDO/DDA extraction and quantification method for a fast and accurate determination of a carcinogenic metabolic deregulation in patients.

**12:00-14:00 Lunch**

SESSION 5 : Neurology

**14:00 – 15:00 Oral communications**

OC13 Meriam Messedi - Oxysterols and oxidative stress parameters in children with Autism spectrum Disorders.

OC14 Eylan Yutuc - Constructing a three-dimensional sterol atlas of mouse brain: The first steps.

OC15 Valerio Leoni - 24S‑Hydroxycholesterol and Cerebellar Degeneration: Insights from SCA.

OC16 Erica Staurenghi - ApoE3 vs ApoE4 astrocytes: new insights into differences in lipid metabolism and trafficking.

**15:00 – 15:30 Flash Talks**

FT11 Ali Asgari Mohsen - Sterol and Oxysterol Markers of Huntington's Disease: Further Studies of the 24S-Hydroxycholesterol Pathway.

**15:30 – 16:00 Oral communications and flash talks awards**

**ENOR’s general assembly and concluding remarks**