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6th ENOR Symposium

29-30 September 2016

University Paris Descartes, Paris, France 45 rue des Saints-Pères, 75270 PARIS

September 29th 2016

8 h 30 - 9 h 00	Registration
9 h 00 - 9 h 15	Opening of the symposium : C. Massaad, L. Iuliano, G. Lizard
9 h15 - 10 h 15	Plenary Session Antonio Moschetta (University of Bari, Italy) Nuclear Oxysterol Receptor LXR and the Reverse Cholesterol Transport: relevance in atherosclerosis and fatty liver.
10 h 15 - 10 h 45	Coffee break – poster session
	Session 1 : Detection of oxysterols
10 h 45 – 11h 05	Steven Ray Wilson (Department of Chemistry, <i>University of Oslo, Norway</i>) "Sub-chip" liquid chromatography-mass spectrometry for measuring oxysterols and related proteins.
11 h 05 – 11 h 20	Sabrina Krautbauer (Regensburg University Hospital, Regensburg, Germany) Relevance of appropriate internal standards for accurate quantification using LC-MS/MS – analysis of tauro-conjugated bile acids as an example.
11 h 20 - 11 h 40	Ruth Andrew (University of Edinburgh, UK) Derivatisation strategies to quantify androgens and estrogens and enable isomer separation by ion mobility mass spectrometry (IMS-MS).
11 h 40 -12 h 10	Yuqin Wang (Swansea University Medical School, UK) Oxysterols generated during motor neuron differentiation differentially regulate the hedgehog signalling pathway.
12 h 10 – 12 h 30	Silke Matysik (Institute for Clinical Chemistry and Laboratory Medicine, University Hospital Regensburg, Germany) Analysis of steroid hormones – LC-MS vs. immunoassay: a practical consideration.
12h30 – 14h15	Lunch and Poster session

	Session 2 : Neuroscience
14 h 15 - 14 h 45	Nathalie Cartier (INSERM U1169 MIRCen CEA, University Paris Sud, France) Targeting CYP46A1 to restore impaired cholesterol metabolism in Alzheimer disease.
14 h 45 - 15 h 05	Sandrine Betuing (University Pierre et Marie Curie Paris 6, Paris, France) CYP46A1 expression is neuroprotective in Huntington's disease mice.
15 h 05 - 15 h 25	Othman Ghribi (University of North Dakota, USA) Regulation of α -synuclein levels by 27-hydroxycholesterol. Relevance to synucleinopathies
15 h 25 - 15 h 45	Ingemar Björkhem (Karolinska Institutet, Stockholm, Sweden) What is the driving force for the flux of oxysterols across the blood-brain barrier?
15 h 45 - 16 h 05	Charbel Massaad (University <i>Paris Descartes, Paris France</i>) Dual role of LXR in myelination in the central and peripheral nervous system.
16 h 05 - 16 h 25	Weihong Song (The University of British Columbia, Vancouver Canada) A Familial Multiple Sclerosis-associated - Pathogenic mutation in NR1H3 gene.
16 h 25 - 16 h 45	Coffee break and poster session
	Session 3 : Nutrition and oxysterols biological activities
16 h 45 - 17 h 05	Meryam Debbabi (University Bourgogne Franche Comté / INSERM, Dijon, France) Evaluation of the effects of major compounds present in the Mediterranean diet (oleic acid, docosahexahenoic acid, α -tocopherol) and hydrogenated oils (elaidic acid) on 7-ketocholesterol-induced oxidative stress and cell death on microglial BV-2 cells.
17 h 05 - 17h 25	Caroline Pot (Department of Clinical Neurosciences, Lausanne, Switzerland) Interleukin-27 induces oxysterols that regulate CD4 T cell response via LXR signaling.
17 h 25 - 17 h 45	Elodie Olivier (UMR CNRS 8638, <i>Université Paris Descartes, Paris, France</i>) Role of P2X7 cell degenerescence receptor and granzyme B in 25-hydroxycholesterol-induced apoptosis and degenerative pathways in skin.
17 h 45 - 18 h 05	Ségolène Gambert (Centre des Sciences du Goût et de l'Alimentation. UMR 1324 INRA, 6265 CNRS, Université Bourgogne Franche Comté, Dijon, France) Cholesterol metabolism and glaucoma:modulation of Muller cells membrane organisation by 24S-hydroxycholesterol.

Event Dinner

September 30th 2016

9 h 30 - 10 h 30	Plenary Session Ned A. Porter (Vanderbilt University, Nashville, USA) Perturbations of sterol omeostasis: the formation of toxic oxysterols as a consequence of genetics or small molecule exposures. h
10 h 30 - 11 h 00	Coffee break and poster session
	Session 4 : Cancer
11 h 00 - 11 h 30	Jean Marc Lobaccaro (UMR CNRS6293-INSERM U1103 and CRNH - Auvergne, France) Prostate cancer, cholesterol and LXRs: the impossible triad
11 h 30 - 11 h 50	Julie Leignadier (UMR-1037 INSERM-University of Toulouse, CRCT, Toulouse, France) The oxysterol dendrogenin A: an alternative against breast cancers resistant to hormonotherapy.
11 h 50 – 12 h 10	Hanne Røberg-Larsen (Department of chemistry, University of Oslo, Norway) ⁻ 27-hydroxycholesterol in cancer exosomes – potential new separation method?
12 h 10 - 12 h 30	Nada Zabaiou (Université Clermont Auvergne, Université Blaise Pascal, France) Propolis has androgen receptor antagonist activity and affects prostate cancer survival.
12 h 30 - 14 h 00	Lunch and poster session
	Session 5 : Energy metabolism and stress
14 h 00 - 14 h 20	Sergio Bydlowski (University of São Paulo Medical School, Sao Paulo, Brazil) Outside-in, inside-out: Proteomic analysis in endothelial stress mediated by 7-ketocholesterol.
14 h 20 - 14 h 40	Valerio Leoni (Hospital of Varese, Varese, Italy) Evidences of an impairment of cholesterol metabolism associated to mitochondrial dysfunction. A metabolomic approach based on mass spectrometry.
14 h 40 - 15 h 00	Vesa M. Olkkonen (Minerva Foundation Institute for Medical Research, Helsinki, Finland) The involvement of ORP2 in cellular energy metabolism.
15 h 00 – 15 h 20	Gerd Schmitz (Institute for Clinical Chemistry and Laboratory Medicine, University Hospital Regensburg, Germany) The plasma elimination rate of current lipoprotein apheresis methods differs for lipoprotein remnants, HDL-particles, oxysterols, cholesterol precursors and phytosterols.
15 h 20 - 15 h 35	Coffee Break

	Session 6: Oxysterol metabolism and agonist of LXRs	
15 h 35 – 16 h 05	Marc Poirot (UMR-1037 INSERM-University of Toulouse, CRCT, Toulouse, France) Oxysterols and Cancer.	
16 h 05 - 16 h 25	Fermin Castro Navas (University of Perugia, Perugia, Italy) Side-Chain Modified Stigmasterol and Ergosterol Derivatives as Liver X Receptor Agonists.	
16 h 25 - 16 h 45	Shubhrima Ghosh (Indian Institute of Technology Delhi, Delhi, India) Microbial degradation of cytotoxic 7-Ketocholesterol and mining therapeutic enzymes.	
16 h 45 - 17 h 05	Andrei A. Gilep (Institute of Bioorganic Chemistry, Minsk, Belarus) Identification of <i>Mycobacterium tuberculosis</i> enzymes involved in metabolism of immunoactive sterols.	
17 h 05 - 17 h 15	Coffee Break	
17 h 15 – 18 h 00	General assembly	
Round table discussion of ENOR activities		

Poster Awards and closing remarks (G. Lizard, L. Iuliano, C. Massaad)

18 h 00 – 18 h 15