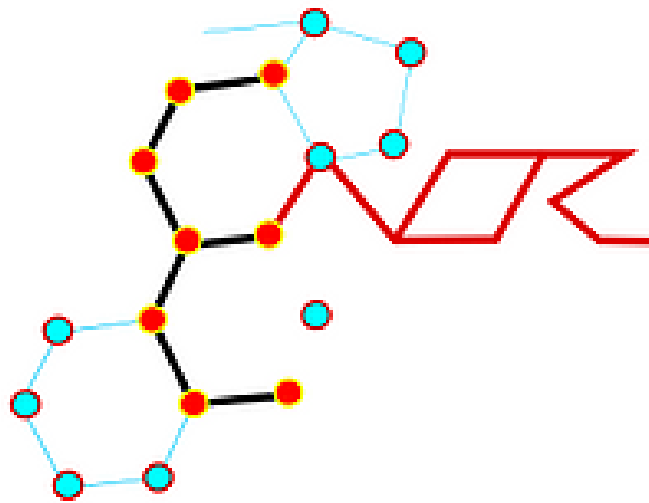


13th meeting of the
European Network for Oxysterol Research



Food Science and Nutrition:
Oxysterols and phytosterols in age-related
disease and immune regulation

12th - 13th September 2024 – Leeds, U.K
School of Food Science and Nutrition
University of Leeds

Conference Venue



[NEXUS conference center, Woodhouse Lane, Leeds, LS2 9JT](https://nexusleeds.co.uk/travelling-to-nexus/)

Directions to Nexus, the event venue can be found here - <https://nexusleeds.co.uk/travelling-to-nexus/>

Accommodation

Accommodation is available within walking distance of the venue, here are some examples

Premier Inn Leeds City Centre (Leeds Arena) hotel	£83*
ibis Styles Leeds City Centre Arena	£60*
Radisson Blu Hotel, Leeds City Centre	£100*

(*prices are a guide, please contact the hotels directly)

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Dr Giorgia Cioccoloni (University of Leeds)

Ms Jenna King (University of Leeds)

Dr Hanne Røberg-Larsen (University of Oslo)

Prof Jean-Marc Lobaccaro (Université Clermont Auvergne)

Dr Irundika Dias (Aston University)

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Prof Marc Poirot (France)

Dr James Thorne (United Kingdom)

Dr Hanne Røberg-Larsen (Norway)

Dr Silke Matysik (Germany)

Prof Jogchum Plat (Netherlands)

Day 1, Thursday 12th September

08:00 Registration, tea and coffee

08:15 Welcome to Day 1

Luigi Iuliano, James Thorne, Giorgia Cioccoloni

Session 1: Molecular mechanisms of oxysterols and phytosterols (Chair: Dr James L Thorne)

0830 – 0930 Plenary 1

“1994-2024: Once upon a time the Liver X Receptors” Prof. Jean-Marc Lobaccaro

0930-0950 OC1

“Autoregulation of Liver X Receptor Splicing in Human Breast Cancer”. **Mengfan Xu***, Priscilia Lianto, Thomas A. Hughes, Laura Matthews and James L. Thorne.

0950-1010 OC2

“25-hydroxycholesterol attenuates tumor necrosis factor alpha-induced blood-brain barrier breakdown in vitro”. **Cindy Nguyen***, Rodrigo Azevedo Loiola, Shiraz Dib, Julien Saint-Pol, Lucie Dehouck, Emmanuel Sevin, Christophe Landry, Jens Pahnke, Caroline Pot, and Fabien Gosselet.

1010-1030 OC3

“Plant sterol enrichment reduces body weight in mice fed a high-fat diet, alters membrane microdomain composition and cellular inflammatory response in microglial cell lines”. **Christin Wassermann***, Madlen Reinicke, Laura Plantera, Ingo Bechmann, Uta Ceglarek.

1030-1100 Coffee break and poster viewing

1100-1120 OC4

“The chain reaction hypothesis to explain the multiplicity of the CYP46A1 activity brain effects”. **Irina A Pikuleva**.

1120-1140 OC5

“CRISPR/Cas9-mediated generation of potato CYP450 mutants having a reduced hydroxysterol biosynthesis and a low level of toxic glycoalkaloids”. **Folke Sitbon**, Mariette Andersson, Ann-Sofie Fält, Per Hofvander, Manuela Pacciarini, William J. Griffiths, Irene Merino.

1140-1200 OC6

“Exploring oxysterol dynamics in endothelial plasma membrane in hyperglycaemia”. Lorena Sanchez, Yahya Sohrabi, Ana Reis, **Irundika Dias**.

1200-1300 Lunch and poster viewing

*denotes ECR (an early career researcher, for example, a PhD student or post-doctoral scientist) or technical specialist and these presenters are eligible for the Biochemical Society ECR best poster and best oral communication award.

Presenting author is in bold

Session 2: Detection and quantification of oxysterols and phytosterols (Chair: Dr Hanne Røberg-Larsen)

1300 – 1400 Plenary 2

“Steroids and sterols: Mass spectrometry in space and time” Prof. Ruth Andrew

1400-1420 OC7

“Medical Bioremediation of 7-Ketocholesterol and biotransformation by nano-immobilized cholesterol oxidase”. **Shubhrima Ghosh***

1420-1440 OC8

“Mass Spectrometry Reveals that Oxysterols are Secreted from steatotic liver organoids”. **Kristina Sæterdal Kømurcu***, Aleksandra Aizenshtadt, James L Thorne, Stefan Johannes Karl Krauss, Steven Ray Haakon Wilson and Hanne Røberg-Larsen.

1440-1500 OC9

“A targeted GC-MS/MS approach for the determination of sterols in microgreen and mature plant material”. A. Castellaneta, I. Losito, T.R.I. Cataldia, G. Liebisch, **S. Matysik**.

1500-1520 OC10

“Sterol diversity and biogenesis in organisms”. **Hubert Schaller**, Pierre Mercier, Sylvain Darnet, Andréa Hemmerlin.

1520-1550 Coffee break and poster viewing

Session 3: Oxysterols and phytosterols in age-related disease (Chair: Dr Giorgia Cioccoloni)

1550-1610 OC11

Protocol development for encapsulating phytosterols into liposomes for mammalian cell culture. **Entenan Jefrei***, Niamh O'Donoghue, Kristina Sæterdal Kømurcu, Hanne Røberg-Larsen, Chikere Nkwonta, Arwen Tyler, J. Bernadette Moore, James L. Thorne.

1610-1630 OC12

Phytosterols levels in men with metabolic syndromes. **Meriam Messedi***

1630-1650 OC13

LXR: a major key player in Schwann cell development. Venkat Krishnan Sundaram, Camille Fernandez, Julien Grenier, Céline Becker-Dargenet, Ruth Stassart, Robert Fledrich, and **Charbel Massaad**.

1650-1710 OC14

“Supplementation of seaweed extracts to the diet reduces symptoms of Alzheimer’s Disease in the APPswePS1ΔE9 mouse model”. **Monique T Mulder**, Nikita Martens, Na Zhan, Sammie C Yam, Frank P J Leijten, Marcella Palumbo, Martien Caspers, Assia Tiane, Silvia Friedrichs, Yanlin Li, Leonie van Vark-van der Zee, Gardi Voortman, Francesca Zimetti, Dick Jaarsma, Lars Verschuren, Johan W Jonker, Folkert Kuipers, Dieter Lütjohann, Tim Vanmierlo

1710-1730 ENOR general assembly

1830: Gala Dinner – [Sous le Nez](#)

Day 2, Friday 13th September

0915-0930 Welcome to Day 2

Gerard Lizard, Hanne-Røberg Larsen, Jean-Marc Lobaccaro

0930-1030 Plenary 3

“Phytosterols, LDL-C, and cardiovascular disease risk” Prof. Dieter Lütjohann

Session 4: Oxysterols and phytosterols in immune function (Chair: Dr Irundika Dias)

1030-1050 OC15

“Plant stanol consumption increases anti-COVID-19 antibody responses, independent of changes in serum cholesterol concentrations: a randomized controlled trial” by **Lieve van Brakel***, Ronald P. Mensink, Dieter Lütjohann, and Jogchum Plat.

1050-1110 OC16

“Impact of Liver X Receptor Inhibition on Macrophage Cholesterol homeostasis and Inflammatory Response in Atherosclerosis”. **Damien Leleu***, Thomas Pilot, Léa Mangin, Kevin Van-Dongen, Lil Proukhnitzky, Jean-Paul Pais-de-Barros, Aline Laubriet, Eric Steinmetz, Thomas Gautier, Charles Thomas, David Masson.

1110-1140 Coffee break and poster viewing

1140-1200 OC17

“25-HC is an inflammatory switch of the human adaptive immune system”. Heather Cross, Aoife M. O’Byrne, Daniel Wüstner, Douglas Covey and **Esperanza Perucha**.

1200-1220 OC18

“Liver X Receptor, the metronome of the ovarian endocrine response” **Silvère Baron**, Sarah Dallel Florence Brugnon and Jean Marc Lobaccaro.

1220-1240 OC19

“25-hydroxycholesterol mediates brain cytokine production and leukocyte infiltration in a mouse model of lipopolysaccharide-induced neuroinflammation” Johnathan Romero, Danira Toral-Rios, Jinsheng Yu, Steven M Paul, **Anil G Cashikar**.

1240-1300 Awards and announcements

1300-1400 Lunch and Close

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