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

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

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premier Inn Leeds City Centre (Leeds Arena) hotel</td>
<td>£83*</td>
</tr>
<tr>
<td>ibis Styles Leeds City Centre Arena</td>
<td>£60*</td>
</tr>
<tr>
<td>Radisson Blu Hotel, Leeds City Centre</td>
<td>£100*</td>
</tr>
</tbody>
</table>

(*prices are a guide, please contact the hotels directly)
Event Sponsors
ENOR2024 Organising committee

Dr James L Thorne (University of Leeds)
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)

ENOR Scientific committee

Prof Luigi Iuliano (Italy)
Prof Gérard Lizard (France)
Prof Jean-Marc Lobaccaro (France)
Prof William J. Griffiths (United Kingdom)
Prof Dieter Lütjohann (Germany)
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

0950-1010 OC2

1010-1030 OC3

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  

1440-1500 OC9  

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  

1610-1630 OC12  
Phytosterols levels in men with metabolic syndromes. Meriam Messedi*

1630-1650 OC13  

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 Lüttjohann, Tim Vanmierlo
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

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

1240-1300 Awards and announcements

1300-1400 Lunch and Close
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