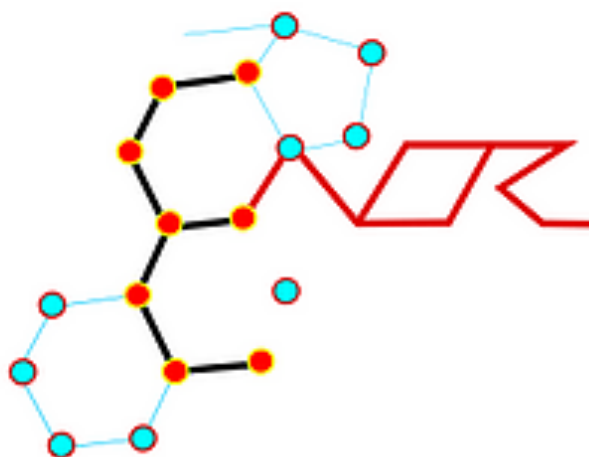


14th meeting of the
European Network for Oxysterol Research



Chemical Analysis and Signalling Pathways
18th - 19th September 2025 – Oslo Science park,
Gaustadalléen 21, Oslo, Norway

EVENT SPONSORS



**UNIVERSITY
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Day 1 Thursday 18th September

08:00–08:20 Registration, tea & coffee

08:20–08:30 Welcome

Session 1: Oxysterol analysis (Chair: Steven R Wilson)

08:30–09:40 Plenary Session 1

“Oxysterols in Human Health and Diseases”

By **Yuqin Wang**

09:30–09:40 Break (10 min)

09:40–10:00 *“Live-cell imaging of oxysterol transport and function in living neuronal cells.”*

Line Lauritsen, Maria Szomek, Peter Reinholdt, Max Lehmann, Kathiresan Krishnan, Pablo Wessig, Jacob Kongsted, Douglas Covey and **Daniel Wüstner**

10:00–10:20 *“Miniaturized Girard-T sample preparation allows for determination of 26-hydroxycholesterol in single organoids.”*

Kristina Sæterdal Kømurcu, Malgorzata Zawadzka, Aleksandra Aizenshtadt, Igor Meszka, Helena Hruskova, Jame L Thorne, Stefan Johannes Karl Krauss, Steven Ray Wilson and Hanne Røberg-Larsen

10:20–10:40 *“Quantitation of plant sterols and other diagnostic sterols in human serum by a simple and fast LC-MS method.”*

Alexander Bauer Westbye, Lili L. Dizdarevic, Sandra R. Dahl, Emil Andreas Asprusten, Yngve Thomas Blikrud, Anita Lövgren Sandblom, Ulf Diczfalusy, Per M. Thorsby, Kjetil Retterstøl

10:40–11:00 *“Oxysterol analysis in single human gastruloids.”*

Malgorzata Zawadzka, Kristina Sæterdal Kømurcu, Igor Meszka, Helena Hrušková, Steven Ray Wilson, Stefan Krauss, and Hanne Røberg-Larsen

11:00–11:20 Break + poster setup (20 min)

Session 2 – Oxysterols in neurological & age-related disorders (Chair: Silvia Maioli)

11:20–11:40 *“The effects of three different daily plant stanol ester intakes on influenza vaccination responses: A double-blind, randomized, placebo-controlled intervention study in older adults.”*

Willem Zwaan, Lieve van Brakel, Ronald P. Mensink and Jogchum Plat

11:40–12:00 *“A fluorinated 7 α ,25-ohc analogue upregulates lipid synthesis in the brain and downregulates lymphocyte count in vivo.”*

Aleksandra Rutkowska, Klaudia Konieczna-Wolska, Fiona Caratis, Mikołaj Opiełka, Karol Biernacki and Krzysztof Urbanowicz

12:00–13:40 Lunch & Poster Session (100 minutes)

13:40–14:00 *“Role of the cholesterol-oxysterol-bile acid pathway in maintenance of neuronal health.”*

Hannah Nudds, Jane Macnaughtan, Simon Eaton, Kersti Karu, Matthew Gegg.

14:00–14:20 *“Role of an oxysterol pathway in neuroinflammation and neurodegeneration.”*

Anil G Cashikar, Danira Toral-Rios, Anuradha Yadav, Jerry Alonso, Steven M Paul

14:20–14:40 *“Sex-specific signatures of CYP46A1 overexpression in App knock-in mouse models of Alzheimer’s Disease pathology.”*

Ljerka Delac, Ines Da Costa Moreira, Laura Ferre Gonzalez, Veronica Beckvard, Francesca Eroli, Ingemar Björkhem, Per Nilsson, Ivan Nalvarte, Silvia Maioli

14:40–15:00	Break (20 minutes)
15:00–15:20	<i>“Role for the liver x receptor agonist 22-ketositosterol in preventing disease progression in an Alzheimer’s disease mouse model.”</i> Monique T Mulder, Nikita Martens, Na Zhan, Sammie Yam, Marcella Palumbo, Lorenzo Pontini, Frank P J Leijten, Leonie van Vark-van der Zee, Gardi Voortman, Silvia Friedrichs, Albert Gerding, Maura Marinozzi, Johan W Jonker, Folkert Kuipers, Dieter Lütjohann, Tim Vanmierlo
15:20–15:40	<i>“Age-related alterations in sulphated oxysterols in human plasma.”</i> Irundika HK Dias, Sewa Abdullah, Tommaso Angelini, Maura Marinozzi, Ane Iriondo and Pablo Martínez-Lage
15:40–16:00	<i>“Cross-Species Brain Lipid Profiling Reveals Sterol and Fatty Acid Signatures with Implications for Lipid-Mediated Signalling.”</i> Christin Wassermann, Madlen Reinicke and Uta Ceglarek
16:00–16:20	General Assembly
16:20–17:00	Wrap-up discussion / announcements
17:00	Dinner and poster mingling (The dinner will be served at the conference location)

Day 2 Friday 19th September

08:30–08:40 Welcome – James L Thorne

Session 3 – Oxysterols in signalling pathways (Chair: Martin F Strand and Steven R Wilson)

08:40–09:40 Plenary session 2

“Cholesterol and oxysterols in Hedgehog signaling”

By **Phil Beachy**

09:40–10:00 *“25-Hydroxycholesterol controls the outcome of the adaptive human immune response by regulating early signalling events”*

Victoire Paoli, Maria Szomek, Vibeke Akkerman, Daniel Wüstner, Douglas Covey and **Esperanza Perucha**.

10:00–10:20 *“Distinct functions of cycloartenol-derived sterols in plants.”*

Hubert Schaller

10:20–10:40 *“Screening for modulators of liver X receptors from natural plants.”*

Fanny Garlin, Aurélie Lagarde, Christelle Parchemin, Lauriane Imbert-Roux, Jean-Yves Berthon, Silvère Baron and **Jean-Marc A. Lobaccaro**

10:40–11:00 Break + Posters (20 minutes)

11:00–11:20 *“Design, synthesis and optimization of bio-inspired lixer x receptor modulators in prostate cancer.”*

Norberta Delporte, Aurélie Lagarde, Silvère Baron, Pierre Chalard, Jean-Marc A. Lobaccaro and Isabelle Abrunhosa-Thomas

11:20–11:40 *“4β-hydroxycholesterol as a Modulator of Adipose Inflammation, Differentiation, and Metabolic Homeostasis in Obesity.”*

Romane Leloup, Owein Guillemot-Legris, Martin Roumain, Pauline Bottemanne, Mireille Alhouayek and Giulio G Muccioli

11:40–12:00	<i>Oxysterol-driven chemoresistance pathways in triple negative breast cancer</i> Hang Wu, Mengfan Xu, William Edwards, Giorgia Cioccolonia, Aleksandra M Rzeszutek, Elton J R Vasconcelos, Baek Kim, Thomas A Hughes, James L Thorne
12:00–12:40	Lunch & Posters (40 minutes)
12:40–13:00	<i>“Exploring the biological significance of the delta5-6 double bond of cholesterol.”</i> Marc Poirot, Silia Ayadi, Chloé Gressein, Laly Pucheu, Julio Buñai, Philippe de Médina, Sandrine Silvente-Poirot
13:00–13:20	<i>“Autoregulation of Liver X Receptor Splicing by Ligands and Splice Variants in Human Breast Cancer.”</i> Mengfan Xu, Priscilia Lianto, Thomas A. Hughes, Laura Matthews and James L. Thorne
13:20–13:40	<i>“The hormetic effect of 7-ketocholesterol in preventing ferroptosis.”</i> Oren Tirosh, Sarit Anavi, Nicole Giltman, Haim Zeigerman, Zecharia Madar
13:40–14:00	Closing remarks.