XXVII INTERNATIONAL BILE ACID MEETING: BILE ACIDS IN HEALTH AND DISEASE 2024

July 5-6, 2024

Symposium 237

EDINBURGH, UNITED KINGDOM

An application has been made to the UEMS EACCME® for CME accreditation of this event. The number of credits awarded will be printed in the final program.

PREFACE

Since the last International Bile Acid Meeting in Amsterdam in 2022, the field of bile acid research has continued to flourish. New insights have been gained into the role of bile acid signaling in the liver and intestine, the role of bile acids and their receptors in the gut liver axis, bile acid microbiome interactions, and HCC development. FXR has evolved as a target not only for cholestatic liver disease but more recently also for NASH. Furthermore, inhibitors of bile acid transporters ASBT and NTCP have recently been approved for treatment of progressive familial intra-hepatic cholestasis (PFIC), cholestatic pruritus in Alagille's syndrome as well as chronic HBV/HDV coinfection. The XXVII International Bile Acid Meeting will be dedicated to both, basic and clinical aspects of bile acid research with a focus on the role of bile acid transport and signaling in health and disease, the interaction of bile acids with the microbiome, and the role of bile acids in tumor development. Novel aspects of therapeutic strategies using bile acid derivatives, bile acid receptor agonists or bile acid transporter inhibitors represent another focus of this conference. The latest findings will be presented by leading scientists and clinicians in these fields. During the symposium, a poster session will also take place. In line with the tradition of the International Bile Acid Meetings some of the best poster abstracts will be selected by the scientific committee and the authors will be invited for oral presentations. The organizers of the XXVII International Bile Acid Meeting look forward to welcoming you to Edinburgh.

Ulrich Beuers Verena Keitel-Anselmino Michael Trauner

XXVII INTERNATIONAL BILE ACID MEETING: BILE ACIDS IN HEALTH AND DISEASE 2024

July 5-6, 2024

Scientific Organization:
Prof. Dr. Ulrich Beuers,
Amsterdam, The Netherlands
Prof. Dr. Verena Keitel-Anselmino,
Magdeburg, Germany
Prof. Dr. Michael Trauner,
Vienna, Austria

Congress Venue:
Edinburgh International
Conference Centre (EICC)
The Exchange, Morrison Street
Edinburgh EH3 8EE
Scotland, United Kingdom

For admission to scientific events your name badge should be clearly visible. Accompanying persons are not permitted during the conference at any time.

Call for Posters:
A poster session will be held.
For details see page 17.

Start of Registration:
Thursday, July 4, 2024
16:00-20:00 h
at the congress office

Poster Session Set-up:
Thursday, July 4, 2024
16:00-20:00 h

Publication Date of the Final Program:
July 2024

The final program will be available on the website www.falkfoundation.org one week before the start of the symposium.

Friday, July 5, 2024

9:00 Welcome and opening remarks
Verena Keitel-Anselmino, Magdeburg

SESSION I

Bile acid transport in health and disease

Chairs: *Stuart Forbes, Edinburgh; Verena Keitel-Anselmino, Magdeburg*

9:10 Inhibition of bile acid uptake by NTCP: From mice to men
Stan van de Graaf, Amsterdam

9:40 IBAT inhibitors in pediatric cholestatic liver disease – clinical benefits
Henkjan Verkade, Groningen

10:00 IBAT inhibitors: Does PFIC subtype matter
Richard Thompson, London

10:20 Therapy of cholemic nephropathy by inhibition of the apical sodium dependent bile acid transporter (ASBT)
Jan Hengstler, Dortmund

10:40 Oral poster presentation

11:00 **Coffee break with poster session**

SESSION II

Bile acids in the intestine

Chairs: *Michael Trauner, Vienna; Catherine Williamson, London*

11:30 Oral poster presentation

11:50 State of the Art: Profiling the human intestinal environment under physiological conditions
Kerwyn Casey Huang, Stanford

Friday, July 5, 2024

12:20 The role of the intestinal microbiota and bile acids during steatotic liver diseases
Bernd Schnabl, La Jolla

12:40 Role of the gut-liver axis and microbial bile acid metabolism in primary sclerosing cholangitis
K. Markus Schneider, Aachen

13:00 **Lunch with poster session**

SESSION III

Bile acids and immunity

Chairs: *Ulrich Beuers, Amsterdam; Ana Lleo, Milan*

14:00 Human gut bacteria produce TH17 modulating BA metabolites
Sloan Devlin, Boston

14:20 MAIT cells in bile duct inflammation and hepatobiliary cancers
Espen Melum, Oslo

14:40 Oral Poster Presentation

15:00 Altered metabolic function of TGR5-deficient macrophages
Verena Keitel-Anselmino, Magdeburg

15:20 Role of FXR and TGR5 signaling on immune cell function in fibrosing cholangiopathies
Alexander Miethke, Cincinnati

15:40 **Coffee break with poster session**

INTERNATIONAL ADOLF WINDAUS AWARD

16:10 Presentation of the International Adolf Windaus Award
Ulrich Beuers, Amsterdam

16:20 International Adolf Windaus Award lecture

Friday, July 5, 2024

SESSION IV

Bile acids in health and disease

Chairs: *Peter Fickert, Graz; Chantal Housset, Paris*

16:50	Norucholic acid (norUDCA): Therapeutic mechanisms and clinical implications *Michael Trauner, Vienna*
17:10	Bile acid signaling and liver cancer *Mathias F. Heikenwälder, Heidelberg*
17:30	Novel (or old) itch mediators *Ronald J. P. Oude-Elferink, Amsterdam*
17:50	State of the Art: Using single cell genomics and spatial profiling to decode cholangiopathies *Neil Henderson, Edinburgh*

Saturday, July 6, 2024

9:00	Welcome and Tribute to Gustav Paumgartner *Ulrich Beuers, Amsterdam*

SESSION V

Bile acids in disease

Chairs: *Dieter Häussinger, Nördlingen; Saskia van Mil, Utrecht*

9:15	Data from GWAS meta-analysis in intrahepatic cholestasis of pregnancy *Peter Dixon, London*
9:35	iPSC-derived hepatic organoids as model for intrahepatic cholestasis *Tobias Cantz, Hannover*
9:55	Identifying the variant in UNC45A underlying Aagenaes syndrome *Runar Almaas, Oslo*
10:15	Epigenetic targeted therapies based on novel UDCA-conjugates as a treatment strategy for cholangiocarcinoma *Francisco J. Caballero-Camino, San Sebastian*
10:35	Therapeutic mechanisms of tetrahydroxylated bile acids in cholestasis and beyond *Claudia Fuchs-Steiner, Vienna*
10:55	Tribute to Hanns-Ulrich Marschall *Catherine Williamson, London*
11:00	**Coffee break with poster session**

Saturday, July 6, 2024

SESSION VI

Bile acids as potential toxins

Chairs: *Claudia Fuchs-Steiner, Vienna; Emmanuel Gonzales, Paris*

11:30	Pkd1l1 knockout mice model the developmental cholangiopathy of biliary atresia *Saul J. Karpen, Richmond*
11:50	The potential roles of fetal wound healing and abnormal bile acids in biliary atresia *Rebecca Wells, Philadelphia*
12:10	Impaired bile acid defense in IgG4-related cholangitis *Ulrich Beuers, Amsterdam*
12:30	Oral poster presentation
12:50	Presentation of Poster Awards *Michael Trauner, Verena Keitel-Anselmino, Ulrich Beuers*
13:00	**Lunch with poster session**

SESSION VII

Bile acid metabolism

Chairs: *Stan van de Graaf, Amsterdam; Rebecca Wells, Philadelphia*

14:00	Bile acid transport and metabolism in Cyp2c70 knockout mouse models *Paul Dawson, Atlanta*
14:20	Cyp2C70 mice: Gut liver axis *Folkert Kuipers, Groningen*
14:40	Gestational bile acid signaling: Beyond cholestasis *Catherine Williamson, London*

Saturday, July 6, 2024

15:00	Oral poster presentation
15:20	**Coffee break with poster session**

SESSION VIII

Bile acids and the biliary tree

Chairs: *David Jones, Edinburgh; Caroline Ovadia, London*

15:40	Ursodeoxycholic acid and fibrates: Future strategies in fibrosing cholangiopathies? *Christophe Corpechot, Paris*
16:00	Contributions of the gallbladder to bile homeostasis *Chantal Housset, Paris*
16:20	Senescence and biliary disease phenotypes *Stuart Forbes, Edinburgh*
16:40	TBA *Fotios Sampaziotis, Cambridge*
17:00	Closing words *Verena Keitel-Anselmino, Magdeburg*

ADOLF WINDAUS (1876-1959)

Adolf Windaus was born on Christmas Day in 1876 in Berlin, where his father owned a factory. Even as a young student in the Berlin gymnasium, he was fascinated by the epochal discoveries of Koch and Pasteur, and by his 18th birthday he had decided on a scientific career. He entered medical school, taking his pre-clinical year at the University of Freiburg and his clinical years in Berlin. However, he soon realized, especially during the lectures of Emil Fischer, that biological processes could be understood only when the chemical structure of organisms was known. Therefore, as soon as he had finished medical school, he returned to Freiburg to study chemistry under the supervision of Heinrich Kiliani. In 1899, he completed his first research project which dealt with the chemical composition of digitalis. He then spent two years in compulsory military service in Berlin. During this time he also worked in the laboratory of Emil Fischer, carrying out studies on derivatives of aniline. On completing his military service, Windaus returned to the University of Freiburg where he began his life-long work on the structure of cholesterol. His thesis, which qualified him for the position of docent, had the simple title „Über Cholesterin“. The choice of this research topic originated from Windaus‘ logical belief that any substance which was so widely distributed in animal and plant tissues must have an important biological function, and that understanding of its structure and function might lead to unifying concepts, a hypothesis he would subsequently prove so brilliantly. In addition to initiating studies on cholesterol, he and his colleague Knoop soon discovered that an amino acid containing the imidazole ring, histidine, was present in proteins, and could be decarboxylated to give histamine. The discovery of histamine opened a vast area of pharmacological research.

In 1913, Adolf Windaus accepted a call to direct the prestigious Institute of Medical Chemistry in Innsbruck, Austria, where earlier Pregl had founded microanalytical chemistry. Two years later, in 1915, he was called to be Director of the Chemical Laboratories of the University of Göttingen, laboratories rich in tradition since the time of Wöhler. Here, he could pursue his work on elucidating the structure of cholesterol in a series of integrated investigations that were truly Herculean in scope. In the year 1919 a most significant discovery was made. Windaus found that coprostane could be oxidized to cholanic acid. With the knowledge of this transformation, came the realization of the close structural similarity of cholesterol and bile acids; one could now apply the existing knowledge of cholesterol structure to that of bile acids and that of bile acids to cholesterol. The work of elucidating the exact structure of the condensed steroid rings of steroids was extraordinarily difficult. To understand

the structural isomerism of the A / B ring juncture, it was necessary to study the simplest model compounds, cis and trans decalin. This was done with Hueckel, who later became one of the world‘s greatest physical chemists.

In the twenties, Adolf Windaus, with his pupils, established the relationships between cholesterol and other important steroids such as sitosterol, the saponins, and the various classes of cardiac steroids. He showed that all shared the cyclopentanophenanthrene nucleus. Inspired by Windaus, his pupil Butenandt isolated and determined the structure of the adrenal steroids whose origins from cholesterol had not been suspected by anyone. Butenandt was able to rapidly determine the structure of estrone, androsterone, and progesterone, for which he received the Nobel Prize in 1939.

Probably the climax in the extraordinary research output of Adolf Windaus was his elucidation of the structure and biosynthesis of vitamin D. Hess in New York had made the observation that ultraviolet radiation of a lipid extract induced the formation of active vitamin D. In the next 8 years, Adolf Windaus and his students succeeded in identifying the provitamin as ergosterol and 7-dehydrocholesterol and also in clarifying the structure of vitamin D2 and vitamin D3. The complex steps in photoactivation of the vitamin were clarified, and each intermediate was crystallized and its structure determined.

Thus, the research area of the chemical structure of cholesterol, which Adolf Windaus had selected when still a young docent in Freiburg led to studies spanning over 30 years – studies which opened up a vast – almost limitless field that continues to be active today. His work has been of inestimable significance for the practice of medicine. Adolf Windaus, however, insisted that his research was not aimed at applications, but only at understanding the mysteries of nature.

Adolf Windaus had a legendary reputation among his colleagues and students. He was a man of infinite energy and extraordinary insight, who could reduce scientific problems to their essence. He had the art to ask the right question and do the definitive experiment. Nature disclosed her secrets quickly to a man of such talent. His former associates had continuous admiration for his clarity of speech, both in conversation and scientific discussion. He was a man of modesty and dignity who combined the highest scientific standards with great personal generosity.

For his many discoveries, Adolf Windaus received many honors and awards. Under his leadership, the Chemical Institute in Göttingen became known throughout the world. He was honored by being chosen to receive the Nobel Prize for chemistry in 1928, and his lecture is a masterpiece of erudition, clarity and modesty.

W. Gerok (†)

INTERNATIONAL ADOLF WINDAUS AWARD

The "International Adolf Windaus Award" was founded by the Falk Foundation e.V. and will, for the twenty-third time, be presented on the occasion of the XXVII International Bile Acid Meeting, on July 5, 2024. The Award amounts to €15,000 and is awarded for outstanding contributions in the field of bile acid research.

Members of the Award Committee:

U. Beuers (Amsterdam)
V. Keitel-Anselmino (Magdeburg)
A. Parés (Barcelona)
R. Poupon (Paris)
M. Trauner (Vienna)

Windaus Award Winners:

1980 - C. Einarsson (Stockholm) & K. Hellstrom (Stockholm)
1982 - E. H. Mosbach (New York) & H. Danielsson (Uppsala)
1984 - M. C. Carey (Boston)
1986 - I. Bjorkhem (Huddinge)
1988 - J. L. Boyer (New Haven)
1990 - P. B. Hylemon (Richmond) & P. J. Meier-Abt (Zurich)
1992 - K. Okuda (Hiroshima)
1994 - Z. R. Vlahcevic (Richmond)
1996 - W. Kramer (Frankfurt)
1998 - P. A. Dawson (Winston-Salem)
2000 - D. J. Mangelsdorf (Dallas)
2002 - D. W. Russell (Dallas)
2004 - K. D. R. Setchell (Cincinnati)
2006 - R. Poupon (Paris)
2008 - N. Ballatori (Rochester)
2010 - J. Auwerx & K. Schoonjans (Lausanne)
2012 - G. Paumgartner (Munich)
2014 - S. Kliewer (Dallas)
2016 - D. Keppler (Heidelberg)
2018 - B.B. Stieger (Zurich)
2020 - D. D. Moore (Berkeley)
2022 - R.J.P. Oude Elferink (Amsterdam)

Coordinator of the Award Committee:

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POSTER SESSION

Posters will be exhibited on July 5-6, 2024. The authors will be in attendance during coffee and lunch breaks on both days.

CALL FOR POSTERS

Please submit your poster abstract before April 1, 2024

Abstracts must be submitted via our Internet Abstract Submission System (https://poster.falkfoundation.com) where further information regarding the submission format and the submission process is available.

The abstracts will be selected by the scientific organizers, with preference being given to those thematically related to one of the sessions of the congress. The accepted abstracts will be printed and distributed to congress participants along with the other meeting information.

Poster authors will receive notification about acceptance and further instructions in April 2024.

For the first author of an accepted poster, accommodation expenses (July 4-7, 2024) and fees for the scientific program will be covered during Symposium 237. Travel expenses will not be covered.

POSTER AWARDS

Three prizes will be awarded for the best poster presentations. Winners will be asked to give a short presentation (2 – 5 minutes) of their poster during the award ceremony.

Award winners will be presented with a certificate and prize money of EUR 3000, EUR 2000 and EUR 1000.

Travel expenses will also be covered for the first authors of the three winning posters.

REGISTRATION

You can register for the event via our homepage:
www.falkfoundation.org
Registration is only possible online.

You will receive an automatic confirmation of registration by e-mail. Please transfer the congress fee to the bank account listed in the e-mail within two weeks.

CONGRESS FEES

Scientific Program of Symposium 237	EUR 300
Students (copy of student ID required)	EUR 150

The congress fees include:

- Pre-Opening and Welcome on Thursday, July 4, 2024
- Refreshments during coffee breaks
- Lunch on Friday and Saturday, July 5-6, 2024
- A copy of the final program

CONGRESS OFFICE AND REGISTRATION

Opening Hours:

Thursday, July 4	16:00-20:00 h
Friday, July 5	08:00-18:00 h
Saturday, July 6	08:00-16:00 h

The Falk Foundation will take pictures during the meeting. Additionally, parts of the meeting might be recorded. By participating all attendees consent and agree with the recording and the photo shoots.

ARRIVAL

Edinburgh International Conference Centre (EICC)
The Exchange, Morrison Street
Edinburgh EH3 8EE
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By Bus

Edinburgh's main bus terminal is located at St Andrews Square.
Bus connections stretch right across the UK. For details of these routes please visit: www.nationalexpress.com or www.citylink.co.uk.

For information on local bus services throughout Edinburgh visit www.lothianbuses.com

By Train

Edinburgh has two railway stations:

Waverley Station, which is 1.3 miles from EICC, is the city's main railway station and has direct routes to many cities across the country, including over 25 daily departures from London.

Haymarket Station, which is just 0.4 miles from EICC, is a stop for many commuter and some UK train routes. Please ensure that you check with your rail network provider to find out if your train will stop at Haymarket or Waverley.

For more information on the rail network within the UK, please visit East Coast, National Rail or Trainline; a one-stop shop for train and coach travel.

By Tram

Edinburgh Trams run between the Airport and York Place every 8-10 minutes Monday to Saturday and every 12-15 minutes on a Sunday.
The closest tram stop to the EICC is at Haymarket Station.
Please visit Edinburgh Trams website for more details.

Walk to EICC from Haymarket Station

When exiting Haymarket Station head right (east), towards the pedestrian crossing. Walk straight up Morrison Street for a few minutes and you will find the EICC on the left hand side.

SEStran

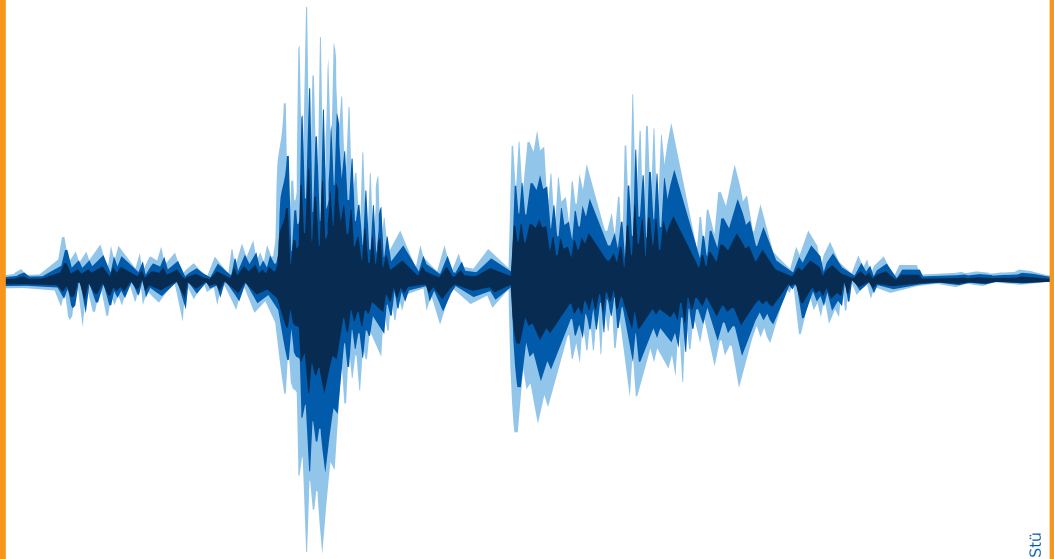
For further advice on alternative modes of transport www.sestran.gov.uk

From Edinburgh Airport by Bus

The Airlink 100 operates a frequent bus service (every 10 minutes at peak times) between Edinburgh Airport and the city centre, with designated stops en route. The service starts at 04.30 and runs until 00.22 at night, with the journey taking 20 minutes. Tickets cost £4.50 single and £7.50 return. Delegates are advised to disembark at Haymarket Railway Station and to follow signs for EICC on foot (5 minute walk). See city centre map for directions.

The N22 bus also departs from outside the Airport entrance and runs every half an hour through the night until the Airlink service starts again. For more information about these services visit www.flybybus.com.

Registration via www.falkfoundation.org or simply scan and register.



Together we know more. Together we do more.
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