XXI International Bile Acid Meeting
Bile Acids as Metabolic Integrators and Therapeutics

October 7 – 8, 2010
Freiburg, Germany

Preliminary Program
CME credits for the Falk Symposium 175 have been applied for at the European Union of Medical Specialists (UEMS) – European Board of Gastroenterology (EBG). The number of credits awarded will be printed in the final program.
Preface

Since the last International Bile Acid Meeting in Amsterdam in 2008, bile acid research has continued to flourish and bile acid signalling has become an important area of research. New insight has been gained into the mechanisms responsible for maintaining bile acid homeostasis and bile acid signalling, which involves both nuclear and membrane-bound receptors. Disturbances of bile acid signalling have gained clinical relevance and offer new aspects of the pathogenesis of cholestatic liver diseases such as cholestatic itch, primary sclerosing cholangitis and primary biliary cirrhosis.

Bile acid research has received important support through the generosity of Dr. Dr. h. c. Herbert Falk (1924-2008), who initiated the series of International Bile Acid Meetings and promoted them so well that they have become the Congress Highlight in the field. In honour and memory of Herbert Falk the organizers decided to establish the Herbert Falk lecture and they are delighted that the first lecture will be given by Dr. Alan Hoffmann, a renown pioneer of bile acid research.

The XXI 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 acids as signal molecules and in hepatobiliary diseases. The latest findings will be presented by leading scientists and clinicians in this field.

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 presentation. The organizers of the XXI International Bile Acid Meeting look forward to welcome you in Freiburg.

Dieter Häussinger
Registration:
Wednesday, October 6, 2010
8.30 – 18.30 h
at the congress office

Scientific Organization:
D. Häussinger, Düsseldorf (Germany)
U. Beuers, Amsterdam (Netherlands)
A. Stiehl, Heidelberg (Germany)
M. Trauner, Graz (Austria)

Congress Venue:
Konzerthaus Freiburg
Rolf-Böhme-Saal
Konrad-Adenauer-Platz
79098 Freiberg (Germany)

Information:
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Official Language:
English

Call for posters:
For details see page 13

Publication date of final program:
October 2010

The final program will be available on the homepage www.falkfoundation.org one week before.
Thursday, October 7, 2010

8.30 Welcome and Introduction  
D. Häussinger, Düsseldorf

Session I  
Metabolism and transport of bile acids

Chair: P. A. Dawson, Winston-Salem; D. Keppler, Heidelberg

8.40 Role of cilia in the regulation of bile flow  
N. LaRusso, Rochester

9.00 Posttranslational regulation of Abcc2 through sumoylation  
H. Suzuki, Tokyo

9.20 Role of the organic solute transporter Osta/b in bile acid homeostasis  
N. Ballatori, Rochester

9.40 Oral presentation selected from poster abstract submission  
N.N.

Herbert Falk Lecture

Chair: D. Häussinger, Düsseldorf

10.00 Herbert Falk: Catalyst of the renascence of bile acid research and bile acid therapy  
A. F. Hofmann, San Diego

10.30 Coffee break with poster session
Thursday, October 7, 2010

Session II
Receptor regulation by bile acids

Chair: D. J. Mangelsdorf, Dallas; G. Paumgartner, Munich

11.00 Bile acid signalling, a journey from the nucleus to the membrane J. Auwerx, Illkirch
11.20 TGR5 in the biliary tree V. Keitel, Düsseldorf
11.40 Fibroblast growth factor 19, a message from the intestine P. L. M. Jansen, Amsterdam
12.00 Role of Foxa2 in bile acid homeostasis and cholestasis K. H. Kästner, Philadelphia
12.20 Role of nuclear receptors in biliary epithelium N. Chignard, Paris
12.40 Oral presentation selected from poster abstract submission N.N.

13.00 Lunch break with poster session

10 minutes lecture, 10 minutes discussion
Thursday, October 7, 2010

Session III
Pleiotropic actions of bile acids

Chair: J. Sjövall, Stockholm; M. Trauner, Graz

14.30 Bile acids and plasma membrane chloride conductance
      M. Paulmichl, Innsbruck

14.50 Bile acid signalling in fetal tissues: Implications for
      intrahepatic cholestasis of pregnancy
      C. Williamson, London

15.10 LRH-1 regulation of bile acid and lipid metabolism
      D. J. Mangelsdorff, Dallas

15.30 Pleiotropic effects of bile acids: Role of biliary
      bicarbonate secretion
      U. Beuers, Amsterdam

15.50 Novel insights in the molecular mechanism of
      cholestatic itch
      R. P. J. Oude Elferink, Amsterdam

16.10 Coffee break with poster session

16.40 Presentation of the Adolf Windaus Prize
      D. Häussinger, Düsseldorf

16.50 Adolf Windaus Prize Lecture
      N.N.

17.20 Poster Session with “Dämmerschoppen”

18.30 End of afternoon session

10 minutes lecture, 10 minutes discussion
Friday, October 8, 2010

8.30 Presentation of Poster Prizes

Session IV
Clinical relevance of genetic variants
Chair: I. Björkhem, Stockholm, U. Beuers, Amsterdam

8.40 Genetic variants in cholestatic liver disease: An update
F. Lammert, Homburg

9.00 Sequence variants in TGR5 contribute to PSC susceptibility
T. H. Karlsen, Oslo

9.20 UDCA treatment of PBC: Role of genetic variants
R. Poupon, Paris

9.40 Oral presentation selected from poster abstract submission
N.N.

10.00 Oral presentation selected from poster abstract submission
N.N.

10.20 Coffee break with poster session

Session V
Therapeutic potential of bile acids
Chair: U. Leuschner, Frankfurt; A. Stiehl, Heidelberg

10.50 Targeting nuclear bile acid receptors for liver disease
M. Trauner, Graz

11.10 Role of the anion exchanger 2 for the pathogenesis and treatment of PBC
J. F. Medina, Pamplona

11.30 New treatment strategies for PSC
K. D. Lindor Rochester

11.50 Oral presentation selected from poster abstract submission
N.N.

12.10 End of meeting

10 minutes lecture, 10 minutes discussion
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 decent, 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 Woehler. 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 coprostanol could be oxidized to cholic 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 cyclopentano-phenanthrene 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 Gottingen 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
Adolf Windaus Prize

The „Adolf Windaus Prize“ was founded by the Falk Foundation and will, for the sixteenth time, be presented on the occasion of the XXI International Bile Acid Meeting, on October 7, 2010. The prize amounts to € 15,000.- and is awarded for outstanding publications in the field of bile acid research in the last two years.

Members of the Prize Committee:
U. Beuers (Amsterdam)
D. Häussinger (Düsseldorf)
R. P. J. Oude Elferink (Amsterdam)
A. Parés (Barcelona)
R. Poupon (Paris)
M. Trauner (Graz)

Windaus Prize 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)

Coordinator of the Prize Committee:
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**Poster Session**

Posters will be exhibited on October 7–8, 2010, at the Konzerthaus Freiburg. The authors will be in attendance during coffee and lunch breaks on both days.

**Call for posters**

Please submit your poster abstract before **May 31, 2010**. Only one-page abstracts not exceeding 250 words, written in English and saved in Microsoft Word format will be accepted. Abstracts must be submitted via our Internet Abstract Submission System (http://www.falkfoundation.com/poster) where further information regarding the submission format and the submission process is available. The abstracts will be selected by the scientific organizers, preference being given to those thematically related to one of the sessions of the program. The accepted abstracts will be printed and distributed to the participants of the congress together with the documents of the meeting. The authors will receive notification about acceptance and further instructions in **June 2010**.

Contact address for further information on the poster session:
Falk Foundation e.V.
P.O. Box 6529
79041 Freiburg/Germany
Telephone: +49 (0) 761 / 15 14 - 0
Telefax: +49 (0) 761 / 15 14 - 359
Web address for submitting poster abstracts:
http://www.falkfoundation.com/poster

For the **first author** of an accepted **poster**, expenses for accommodation (October 6–9, 2010) and fees for the scientific program and evening activities will be covered during the Falk Symposium 175. **Travel expenses are not covered.**

**Poster prizes**

Three prizes will be awarded for the best presentations. Prize winners will be presented with a prize certificate and cheques for € 1.500,-, € 1.000,- and € 500,- respectively. Travel expenses will be covered additionally for the first author of prize winning posters.
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General Information

Prior to the opening of the congress in Freiburg

Falk Foundation e. V.  
Congress Division  
Leinenweberstr. 5  
P.O. Box 6529  
79041 Freiburg/Br. (Germany)

Congress Office

During the IV Falk Gastro-Conference

Konzerthaus Freiburg  
Konrad-Adenauer-Platz  
79098 Freiburg  
Germany

Opening Hours:
Tuesday, October 5, 2010 11.00 – 18.40 h
Wednesday, October 6, 2010 8.30 – 18.30 h
Thursday, October 7, 2010 8.00 – 18.30 h
Friday, October 8, 2010 8.00 – 12.30 h
Saturday, October 9, 2010 8.30 – 18.00 h
Sunday, October 10, 2010 8.30 – 16.00 h

Congress Fees

Scientific program of the Falk Symposium 175
Students and residents

** OR **

Day ticket, October 7, 2010
Students and residents

Half day ticket, October 8, 2010
Students and residents

The congress fees include:
- Refreshments during coffee breaks
- Lunch on October 7 and 8, 2010
- A copy of the abstract volume
- Parking at the “Konzerthaus Freiburg”
Registration

Congress registrations must reach the Falk Foundation e.V. by **August 15, 2010 at the latest**. Congress fees may be paid by cheque payable to the Falk Foundation e.V. or by bank transfer to Volksbank Freiburg e.G., Germany, Bank No. 68090000, Account No. 1452010, IBAN DE33 6809 0000 0001 4520 10, BIC Genode 61 FR1. Please mark bank transfers with “IV Falk Gastro-Conference”.

To ensure correct registration, participants are asked to send in their registration and the fee remittance together.

After receipt of registration form, each participant will be provided with confirmation of his registration. On presentation of this confirmation at the Congress Office in Freiburg participants will receive the congress folder containing name badges, admission tickets and the abstract volume.

In the event of registration cancellations, a handling fee of EUR 20,- will be deducted from the refund. All participants will receive a written confirmation of attendance at the end of the meeting.

Admission to Scientific Events

For admission to scientific events your name badge should be clearly visible.

Hotel Accommodation

Please send the hotel accommodation form by **August 15, 2010, at the latest** to

Insider Group AG  
Am Bischofskreuz 1  
79114 Freiburg (Germany)  
Telephone: +49(0)761/885 81-169  
Telefax: +49(0)761/885 81-149

The hotel reservation will be confirmed directly by Insider Group AG Freiburg
**Congress Report**

The official congress report of the Falk Symposium 175 “Bile Acids as Metabolic Integrators and Therapeutics” will be published in English in the first half of 2011 by Karger Publishers, Basel, Switzerland. Orders for this book at a reduced subscription price of EUR 30,- can be placed at the Congress Office during the congress in Freiburg.

**Congress Short Report**

The congress short report of the IV Falk Gastro-Conference will be published by the Falk Foundation e.V. with number FSK 175-176 in the first half of 2011.

Orders for this short report, free of charge, can be placed with the Falk Foundation e.V.

**Airport**

International Airport Frankfurt and Basel
Hotels & Restaurants in Freiburg

1 Dorint Hotel am Konzerthaus
2 InterCity Hotel
3 Hotel Rheingold
4 Hotel Victoria
5 Park Hotel Post
6 Colombi Hotel
7 City Hotel
8 Central Hotel
9 Hotel Novotel
10 Hotel zum Roten Bären
11 Hotel Oberkirch
12 Restaurant Dattler
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