

Program



SUPA Conference on Sulfation Pathways

and

**Closing Symposium of the DFG Research Group
FOR1369 „Sulfated Steroids in Reproduction“**

Thursday 11th and Friday 12th April 2019

Raisholzhausen Castle, Germany

Organizers: Martin Bergmann, Joachim Geyer, Jonathan Müller, Stefan Wudy

Thursday, April 11th

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|-------------------|---|
| 12:00 | Registration |
| 12:30 | Lunch |
| 13:45 | Welcome and Introduction |
| 14:00 | <u>Sulfation Pathways</u> |
| | <i>Chair: Joachim Geyer</i> |
| Michael Coughtrie | Species differences in sulfation pathways |
| Jonathan Müller | Sulfate activation – an additional layer of regulation for sulfation pathways |
| Stanislav Kopriva | Sulfation pathways in plants, compartmentation and transporters |
| 15:30 | <u>Desulfation and Transport I</u> |
| | <i>Chair: Jonathan Müller</i> |
| Paul Foster | Steroid sulfatase action and regulation: a key driver in hormone-dependent cancers |
| 16:00 | Coffee Break |
| 16:30 | <u>Desulfation and Transport II</u> |
| Barry Potter | Steroid sulfatase inhibition: clinical data, new inhibitors & insights for sulfamate-based agents |
| Joachim Geyer | Role of the specific steroid sulfate uptake carrier SOAT |
| Abby Collier | Steroid sulfatase: a novel target in prostate cancer |
| William Davies | The role of steroid sulfatase in behaviour, cognition and mental health |
| Daniel Iliev | Very high DHEAS in serum of an overweight female adolescent without a tumor |
| Josefine Bennien | Lessons from the Soat transporter knockout mouse |
| 19:00 | Dinner |
| 20:30 | <u>Synthesis</u> |
| | <i>Chair: Daniela Fietz</i> |
| Patrick Eyers | New tools and technology for evaluating biological sulfation |
| Malcolm McLeod | Tools for the sulfatome: new synthetic technologies aiding the study of steroidal sulfates |

Friday, April 12th

8:45

Analytics

Chair: Martin Bergmann

Stefan Wudy

Mass spectrometric determination of steroid sulfates

Óscar Pozo Mendoza

Mixed sulfate-glucuronide metabolites of steroids: analytical determination and potential applications

Rong Wang

Characterizing the steroidal milieu in amniotic fluid of mid-gestation

10:00

Steroids and Reproduction I

Chair: Stefan Wudy

Alan Conley

Conjugation in the context of biochemical constraints on steroid synthesis and metabolism

10:30

Coffee Break

11:00

Steroids and Reproduction II

Ravinder Anand-Ivell

Controlling the female cycle – new concepts and hormones

Gerhard Schuler

Sulfonated Steroids in domestic mammals

Anna-Katharina Hankele

A novel LC-MS based approach for progestogen profiling during the bovine estrous cycle

Daniela Fietz

Expression of steroid sulfate transporters in the testis

Georgios Scheiner-Bobis

DHEAS: a hormonal fountain of youth?

13:00

Closing Remarks

13:15

Lunch and Departure