Von Behring-Röntgen-Symposium 2022

The Epididymis

Organizers: A. Meinhardt, R. Middendorff, T. Berger

Venue:
Justus-Liebig-University Giessen
Medizinisches Lehrzentrum Seltersberg, Klinikstraße 29, 35392 Giessen, Germany

4 - 7 September 2022 | Giessen | Germany

www.epididymis2022.de
Venue MLZ (Medizinisches Lehrzentrum, Klinikstrasse 29)

Giessen Main Station “Bahnhof”

Footbridge Shortcut for Pedestrians

Only public access for cars

No public access for cars

Public car park

Bus stop: Departure for workshop dinner
Sunday, September 04, 2022

14:00-16:00  Registration

16:00-16:15  Welcome & Opening of the Workshop
Andreas Meinhardt, Workshop Organisation
Lars Wittek, President of the Behring-Röntgen Foundation
Wolfgang Weidner, Dean of the Faculty of Medicine, Justus Liebig University

16:15-17:00  Opening Keynote Lecture
Chair: Bernard Robaire
Lumicrine signaling in the epididymis
Masahito Ikawa, Osaka, Japan

17:00-17:30  Coffee Break & Installation of Posters

17:30-19:00  Presentation of Even-Numbered Posters

19:00  Welcome Reception with Dinner (on site)

Monday, September 05, 2022

9:00-10:30  Session I: Human Epididymis and Epididymitis
Chairs: Terry Turner & Jörg Klug

9:00-9:30  Clinical aspects of acute epididymitis
Adrian Pilatz, Giessen, Germany

9:30-10:00  Tuberculous epididymitis: epidemiological, clinical and histological features
Ekaterina Kulchavenya, Novosibirsk, Russia

10:00-10:30  Functional genomics of the human epididymis
Ann Harris, Cleveland, United States

10:30-11:00  Coffee Break

11:00-12:15  Short Oral Presentations
Chair: Fabrice Saez

11:00-11:15  SO1 - Urinary phthalate metabolites and small non-coding RNAs from seminal plasma extracellular vesicles among men undergoing infertility treatment.
Richard Pilsner, Detroit, USA

11:15-11:30  SO2 - Androgen-regulated epididymis barrier function in the human proximal epididymis
Shih-Hsing Leir, Cleveland, USA
11:30-11:45  **SO3** - Restoration of Segmented Mouse and Rat Epididymal Transcriptional Profiling Data in a Relaunch of the Mammalian Reproductive Genetics Database  
*Daniel Johnston, Bethesda, USA*

11:45-12:00  **SO4** - Investigation of GM1-enriched murine epididymosomes with segmental expression and lumicrine regulation  
*Danielle Sosnicki, Ithaca, USA*

12:00-12:15  **SO5** - Functional and structural particularities regarding the transit of the epididymal duct between neighboring segments in rodents and men  
*Thorben Hau, Giessen, Germany*

12:15-13:30  **Lunch (on site)**

13:30-18:00  **Social Activities**

- Boat tour on river Lahn in Giessen
- Guided tour „Emil von Behring - Savior of Children“ in Marburg

18:00-19:30  **Presentation of Odd-Numbered Posters with Beer, Wine & Nibbles**

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**Tuesday, September 06, 2022**

9:00-10:20  **Session II: Immunobiology and immunopathology of the epididymis**

*Chairs: Mark Hedger & Aileen Harrer*

9:00-9:20  Role of activins in epididymal immunopathology  
*Rukmali Wijayarathna, Melbourne, Australia*

9:20-9:40  The immune context of the mammalian epididymis  
*Rachel Guiton, Clermont-Ferrand, France*

9:40-10:00  Key players in immune surveillance of the epididymis  
*Maria Agustina Battistone, Boston, USA*

10:00-10:20  Region-specific epididymal responses to inflammation: insights from experimental models of epididymitis  
*Erick Silva, Botucatu, Brazil*

10:20-11:00  **Coffee Break**

11:00-12:30  **Short Oral Presentations**

*Chair: Christina Avellar*

11:00-11:15  **SO6** - The regional distribution of resident immune cells shapes distinct immunological environments along the murine epididymis  
*Christiane Pleuger, Giessen, Germany*
DO7 - Uropathogenic Escherichia coli infection leads to the formation of tertiary lymphoid organs in the epididymis
Hiba Hasan, Giessen, Germany

DO8 - Investigating retinoic acid synthesis and signaling in the epididymal epithelium
Cathryn Hogarth, Wodonga, Australia

DO9 - DNA integrity alteration in mouse spermatozoa after short exposure to dibutyl phthalate or bisphenol AF and remediation by an antioxidant oral supplementation.
Elisa Hug, Clermont-Ferrand, France

DO10 - Runx transcription factors are necessary for maintenance of proper differentiation of epididymal epithelial cells
Petra Sipilä, Turku, Finland

DO11 - Do wireless communications networks impact the male reproductive system?
Geoffry De Iuliis, Newcastle, Australia

12:30-14:00 Lunch

14:00-15:30 Session III: Epididymis and Sperm Maturation
Chairs: Brett Nixon & Thomas Berger

14:00-14:30 Use of proteomic and phosphoproteomic profiling to assess the contribution of the epididymis to sperm maturation
David Skerrett-Byrne, Newcastle, Australia

14:30-15:00 Paternal exposures, epididymal maturation, and epigenetic programming of sperm
Michael Golding, College Station, USA

15:00-15:30 Regionalized mapping of biological functions in the epididymis using large-scale in situ approaches
Charles Pineau, Rennes, France

15:30-16:10 Coffee Break

16:10-17:40 Short Oral Presentations
Chair: Colin Conine

16:10-16:25 DO12 - Epididymal primary cilia induce intracellular calcium signaling and gene expression in response to fluid shear stress
Sepideh Fakhari, Québec City, Canada

16:25-16:40 DO13 - Using cryo-electron tomography to study the cytoplasmic droplet
Tzviya Zeev-Ben-Mordehai, Utrecht, Netherlands

16:40-16:55 DO14 - Epididymal acquired sperm miRNAs and male fertility
Natalie Trigg, Philadelphia, United States
16:55-17:10  SO15 - Comprehensive protein profiling of seminal CD63+ small extracellular vesicles unveils their biological relevance and tissue-specific origin  
*Meritxell Jodar Bifet, Barcelona, Spain*

17:10-17:25  SO16 - Oxytocin may recover impaired epididymal contractile function in patients with spinal cord injury who wish to father children  
*Andrea Mieten, Giessen, Germany*

17:25-17:40  SO17 - Mapping the interaction between mouse epididymal protease inhibitor (EPPIN) and the seminal vesicle secreted protein 2 (SVS2)  
*Noemia Mariani, São Paulo, Brazil*

18:00  Bus Departure from Congress Site
18:30  Congress Dinner in the “Lokschuppen” Marburg

**Wednesday, September 07, 2022**

9:00-10:30  Session IV: Physiology and cell biology of the epididymis  
*Chairs: Joël Drevet & Ralf Middendorff*

9:00-9:30  Mechanics and dynamics of epididymal duct in development  
*Tsuyoshi Hirashima, Singapore*

9:30-10:00  Host Defense Functions of the Epididymal Amyloid Matrix  
*Gail Cornwall, Lubbock, United States*

10:00-10:30  Cilia function in epididymis  
*Heymut Omran, Münster, Germany*

10:30-11:00  Coffee Break  
*Chair: Barry Hinton*

11:00-11:30  Epididymal injury and morphological sperm anomalies in a high-fat diet model  
*Rosanna Chianese, Naples, Italy*

11:30-12:15  Breakout sessions to discuss future of research on the epididymis

12:15-12:45  Reports back from breakout sessions

12:30-12:45  Farewell

12:45  Adjourn