

SCHEDULE

Thursday 31st of July, 16.00 – 19.00

16:00 – 16:10 Introduction

F. Wagenlehner

W. Weidner

J. Kreuder

A. Meinhardt

State of the art lectures (chair: J. Kreuder, H. Renz)

- 16.10 – 16.50: Disorders of Male Infertility (state of the art)
– **W. Weidner**
- 16.50 – 17.30: Urogenital Infections (state of the art)
– **F. Wagenlehner**
- 17.30 – 18.10: Inflammation: definitions and the inflammatory cascade (state of the art)
– **H. Renz**

18.10 – 20.00 Get together

Friday 1st of August, 08.00 – 09.00 Breakfast

Time schedule:

09.00 – 11.00 Presentations

11.00 – 12.00 Case discussion

1. Microbiology and inflammation in urogenital infections (chair: E. Domann; H. Renz)

09.00 – 09.30: Microbiology of male urogenital infections (urethritis, prostatitis, epididymitis, orchitis)

Topics: microorganisms, virulence, mechanisms of infections, optimal material for diagnostics, cultural and molecular diagnostics

– **H. Hossain**

09.30 – 10.00: Inflammatory lesions (Male Accessory Gland Infection/Inflammation)

Topics: inflammatory cellular findings, cytokines, ejaculate findings in Male Accessory Gland Infections, immunprivilege of the testes, inflammatory testicular patterns, role of epididymis, infection – dependent changes of sperm transport

– **A. Meinhardt**

10.00 – 10.20: The immune-privilege of the testis – causative mechanism for disturbed spermatogenesis

Topics: E. coli epididymitis model, E. coli orchitis model

– **S. Bhushan**

10.20 – 10.40: Virus-infections and male infertility

Topics: HIV, HCV, Papilloma-V., Paramyxo-V.

– **A. Pilatz**

10.40 – 11.00: Male STDs and the female partner

Topics: HIV, GO, C. trachomatis, Mycoplasma species, Papillomavirus infections

– **H.C. Schuppe**

2. 11.00 – 12.00 Interactive Case Discussion – young Andrologists (chair: A. Pilatz; H.C. Schuppe)

11.00 – 11.15 J. Alidjanov

11.15 – 11.30 M. Boecker

11.30 – 11.45 H. Choe

11.45 – 12.00 J. Fechner-Koke

12.00 – 13.00 BREAK

Friday 13.00 – 18.00

Time schedule

13.00 – 15.00 Presentations

15.00 – 16.00 Interactive case discussion

16.30 – 18.00 Short presentations

3. Urogenital Infections and Inflammation and Infertility (chair: A. Meinhardt; A. Paradowska-Dogan)

13.00 – 13.30: The typical “inflammatory” ejaculate

Topics: spermatology, leukocytes, macrophages, secretory dysfunction, sperm function, sperm antibodies // Demonstrations of ejaculate material

– **H.C. Schuppe**

13.30 – 14.00: Zytokines in the seminal plasma

Topics: proteomics, cytokines

– **C. Hudemann**

14.00 – 15.00: Inflammatory testicular lesions

Topics: all-types of inflammation, association to disturbed spermatogenesis (azoospermia)

– **M. Bergmann**

4. 15.00 – 16.00: Interactive Case Discussion – young andrologists (chair: T. Diemer, A. Hauptmann)

15.00 – 15.15 S. Krasnyak

15.15 – 15.30 G. Patruno

15.30 – 15.45 S. Skouros

15.45 – 16.00 P. Swiniarski

16.00 – 16.30 BREAK

5. Short presentations: (chair: U. Schagdarsurengin, R. Middendorff)

16.30 - 16.50: Experimental autoimmune orchitis as a rodent model of testicular inflammation

Topics: autoimmune orchitis, chronic orchitis – **M. Fijak**

16.50 – 17.10: Endocrine regulation and system disease

Topics: Hormone physiology, growth hormone, adipocytokines, adrenal insufficiency and sepsis, chronic disease and male hypogonadism, obesity and cancer – **T. Linn**

17.10 – 17.30: Current methods for studying sperm epigenome

Topics: overview on molecular diagnostics, importance for human infertility – **K. Steger**

17.30 – 18.00: Mechanisms and research tools: Endocrinology, epigenetics and immunology

– **T. Linn**

6. 18.00 – 20.00 Meet the professors - Discussion of tentative research topics (E. Baumgart-Vogt, M. Bergmann, E. Domann, A. Meinhardt, R. Middendorff, T. Linn, R. Renkawitz-Pohl, A. Schäffler, H. Renz, H.C. Schuppe, K. Steger)

20.00 – 22.00 Come together and dinner

Saturday 2nd of August, 07.30 – 08.00 Breakfast

Time schedule:

08.00 – 10.00 Presentations

10.00 – 11.00 Promising reproductive techniques for future research

11.30 – 12.30 Short presentations

12.30 – 13.00 MC questions

13.00 – 14.00 Presentation of GGL and Pre-GGL

7. Clinical entities (chair: W. Weidner, F. Wagenlehner)

08.00 - 08.40 Chronic prostatitis and inflammatory pelvic pain syndrome

Topics: diagnosis, ejaculate findings, association to infertility, therapy – **T. Diemer**

08.40 - 09.20 Epididymitis – epididymoorchitis

Topics: diagnosis, ejaculate findings, association to infertility, therapy – **A. Pilatz**

09.20-10.00 Penile diseases

Topics: diagnosis, drug therapy – **A. Hauptmann**

8. 10.00 – 11.00 Promising techniques for future research in infection/ inflammation and reproductive medicine (E. Domann, A. Paradowska-Dogan, R. Renkawitz-Pohl, U. Schagdarsurengin)

- Next-generation sequencing (NGS) und PCR/DHPLC – **E. Domann**
- Genome wide identification of free circulating nucleotides in seminal plasma of ejaculate as prognostic parameter for fertility and inflammation – **A. Paradowska-Dogan**
- Conserved proteins in spermatogenesis: novel markers in disturbed spermatogenesis – **C. Rathke**
- Impact of epigenetics in current research and advanced epigenetic techniques – **U. Schagdarsurengin**

11.00 – 11.30 *BREAK*

9. Short presentations: (chair: R. Middendorff, C. Wrenzycki)

11.30 – 11.45 Androimaging in MAGI: A case report – **S. Irrle**

11.45 – 12.00 Signaltransduction in MAGI – **R. Middendorff**

12.00– 12.15 Sperm preparation, cryopreserving and IVF/ICSI in MAGI – **A. Meißner**

12.15 – 12.30 Role of animal models for better understanding of fertilization – **C. Wrenzycki**

12.30 – 13.00 MC Test – Certification by European Academy for Andrology (EAA)

10. 13.00 – 13.15 Presentation of the Giessen Pre-Graduate School of Life Sciences Activities (J. Kreuder)

11. 13.15 - 13.45 Presentation of the Giessen Graduate School of Life Sciences Activities (E. Baumgart-Vogt)

14.00 Adjourn (farewell lunch)