


von behring|röntgen|
stiftung

von Behring-Röntgen Symposium
Key mechanisms in the regulation of testis function

12.–13.04.2013

Biomedizinisches Forschungszentrum Seltersberg
Schubertstr. 81, D-35392 Gießen

Friday, April 12th, 2013

09:00 – 09:30 **Welcome remarks**

Session 1: From stem cells to germ cells - new *in-vitro* models

Chair: *Gromoll J, Münster; Schlatt S, Münster*

09:30 – 10:00 **Dobrinski**, Calgary, Canada

Transplantation approaches to study germ line stem cells and spermatogenesis

10:00 – 10:30 **Schatten**, Pittsburgh, USA

Haploid properly imprinted spermatid-like cells differentiated from human pluripotent stem cells

10:30 – 11:00 **Geijsen**, Utrecht, The Netherlands

Dazl in germ cells

11:00 - 11:30 Coffee break

Session 2: Germ cells in meiosis – regulation and quality control

Chair: *Jessberger R, Dresden; Schagdarsurengin U, Giessen*

11:30 – 12:00 **Baarends**, Rotterdam, The Netherlands

Chromosome pairing, DNA repair and meiotic silencing in mouse spermatocytes and oocytes

12:00 – 12:30 **Benavente**, Würzburg, Germany

Meiotic chromosome synapsis and recombination

12:30 – 13:00 **Toth**, Dresden, Germany

Surveillance mechanisms of the first meiotic prophase in mammals

13:00 – 14:30 Lunch & Poster presentation on current coordinated programs on reproduction in Germany

Session 3: Differentiation of haploid germ cells into competent sperm

Chair: *Steger K, Giessen; Paradowska A, Giessen*

14:30 – 15:00 **Wolgemuth**, New York, USA

Role of the BET family of double bromodomain containing proteins in spermatogenesis

15:00 – 15:30 **Matzuk**, Houston, USA

Small molecule inhibition of male germ cell proteins for contraception

15:30 – 16:00 **Zechner**, Mainz, Germany

Lessons from the sperm epigenome

16:00 – 16:30 Coffee break

Session 4: Somatic cell – germ cell interaction

Chair: *Bergmann M, Giessen; Hedger M, Melbourne*

16:30 – 17:00 **Buaas**, Bar Harbor, USA

Sertoli cell tight junction remodeling mechanisms: Building, breaking and maintaining the blood-testis barrier

17:00 – 17:30 **Ivell**, Dummerstorf, Germany

The Leydig cell as a mirror of male life history

17:30 – 18:00 **Mayerhofer**, München, Germany

A role for testicular peritubular cells?



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Saturday April 13th, 2013

Session 5: New animal models

Chair: *Brehm A, Marburg; Renkawitz-Pohl R, Marburg*

09:00 – 09:30 **Chen**, Baltimore, USA

Epigenetic regulation in Drosophila male germline stem cell lineage

09:30 – 10:00 **Wolf**, München, Germany

Genetically engineered pig models for diabetes and associated complications

10:00 – 10:30 **Behr**, Göttingen, Germany

The common marmoset monkey: a biomedical supermodel?

10:30 – 11:00 Lunchtime

Session 6: Challenging future interactions between scientists and clinicians

Chair: *Kliesch S, Münster; Weidner W, Giessen*

11:00 – 11:30 **Schlegel**, New York, USA

Surgeon, quo vadis? Molecular insights are the future of infertility treatment

11:30 – 12:00 **Toppari**, Turku, Finland

Basis of male reproductive health

12:00 – 12:30 **Strowitzki**, Heidelberg, Germany

Does the gynecologist really need basic scientists and andrologists?

12:30 – 13:00 Round table discussion on future perspectives of reproductive medicine in Germany and Europe