

From gametes to blastocysts – a continuous dialogue

ESHRE Campus symposium
Gothenburg, Sweden
26-27 April 2013

Organised by the ESHRE Special Interest Group Embryology

Venue

Riverton Hotel
Stora Badhusgatan 26
411 21 Gothenburg
Sweden

Faculty

Aisling Ahlstrom (Sweden)
Chris Barratt (United Kingdom)
John Carroll (United Kingdom)
Kui Liu (Sweden)
Kersti Lundin (Sweden)
Cristina Magli (Italy)

Scientific secretariat

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Course description including main topics

A great deal of research is dedicated to elucidating the physiology of the process of gamete interaction and embryogenesis. Following their union, the oocyte and the spermatozoon undergo irreversible changes that promote oocyte activation, nuclear decondensation and fusion of the genetic material, followed by a complex series of events leading to embryo formation and growth.

The oocyte, through the factors accumulated during maturation, has a key role in determining embryo development by properly responding to the activating factor released by the fertilizing spermatozoon. According to the latest findings, the next steps of embryogenesis occur in a network of time-dependent processes where the extensive epigenetic marking in sperm that correlates with developmental regulators and a complex but

specific population of RNA molecules seem to be necessary for normal embryo development.

This course will discuss the most recent knowledge about the progression of these events, giving special emphasis to the continuous dialogue between the two cells through the development from gametes to blastocyst.

Course objectives

At the conclusion of this course, participants should be able to:

1. describe the main biological features of a reproductive cell
2. compare the interaction and contribution of sperm vs. oocyte during the fertilisation process
3. apply the knowledge of gamete interaction into ART practice regarding e.g. choice of fertilisation method
4. discuss the impact of the gametes on the further development of the embryo

Target audience

Embryologists, clinicians, andrologists and scientists working within reproductive medicine and science

Organising secretariat

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Language

The official language of the course is English.



Registrations

Registrations are only possible online. Please visit our website www.eshre.eu, click 'Calendar' and then go to the pages of this course.

Registrations are limited to 300 participants. For availability of places, please check the ESHRE Calendar on our website.

The following fees apply:

Early registration fees (until 12 April 2013):

1. Members of ESHRE = 150 Euro
2. Non-members of ESHRE = 250 Euro
3. Student members of ESHRE = 100 Euro
4. Student non-members of ESHRE = 150 Euro

Onsite registration fees (from 12 April 2013 onwards):

1. Members of ESHRE = 200 Euro
2. Non-members of ESHRE = 350 Euro
3. Student members of ESHRE = 150 Euro
4. Student non-members of ESHRE = 250 Euro

Registration fees 1, 2, 3, and 4 include:

- Attendance to all sessions
- Symposium syllabus
- Lunch
- Coffee breaks
- Certificate of attendance

Cancellation policy

All cancellations should be made in writing. An administrative fee of 25 Euro will be charged for all cancellations. Cancellations received after **26 March 2013** will not be refunded.

Social event

A dinner will be organized on 26 April. More information will follow soon.

Hotel accommodation

Participants have to book their own hotel rooms. Hotels in Gothenburg can be found on:
<http://www.goteborg.com/en/Stay/Stay-Startpage/>;
<http://www.visitsweden.com/sweden/Regions--Cities/Gothenburg/>;
<http://www.booking.com/>

Hotel rooms can also be booked at a reduced price at the workshop venue "Riverton Hotel". Please send an email to Jonna Engström at Jonna.Engstrom@riverton.se and mention ESHRE booking code 1107954.

About Gothenburg and how to get there

For more information about Gothenburg see <http://www.goteborg.com/en/>



Scientific programme

Friday 26 April 2013

- 07:45 – 08:15 Registrations and welcome coffee
08:15 – 08:30 Course introduction and orientation
- 08:30 – 09:10 Biology of the oocyte – Cristina Magli (Italy)
09:10 – 09:20 Questions and Answers
- 09:20 – 10:00 Spermatogenesis – Chris Barratt (United Kingdom)
10:00 – 10:10 Questions and Answers
- 10:10 – 10:40 Coffee Break
- 10:40 – 11:20 Folliculogenesis and oogenesis – Cristina Magli (Italy)
11:20 – 11:30 Questions and Answers
11:30 – 12:30 Interactive session - gametes
- 12:30 – 13:30 Lunch
- 13:30 – 14:10 Regulations of the ovarian reserve in mice (and men) – Kui Liu (Sweden)
14:10 – 14:20 Questions and Answers
- 14:20 – 15:00 An overview of the fertilisation process; IVF vs. ICSI – Kersti Lundin (Sweden)
15:00 – 15:10 Questions and Answers
- 15:10 – 15:40 Coffee Break
- 15:40 – 16:20 The oocyte during fertilisation – John Carroll (United Kingdom)
16:20 – 16:40 Questions and Answers
- 16:40 – 17:20 The sperm during fertilisation – Chris Barratt (United Kingdom)
17:20 – 17:40 Questions and Answers

Saturday 27 April 2013

- 09:00 – 09:40 Signalling events; the sperm and oocyte talking – John Carroll (United Kingdom)
09:40 – 09:50 Questions and Answers
- 09:50 – 10:50 Interactive session – fertilisation failure
- 10:50 – 11:20 Break
- 11:20 – 12:00 Syngamy and first cleavage – Kersti Lundin (Sweden)
12:00 – 12:10 Questions and Answers
- 12:10 – 12:50 Genome activation and blastocyst formation – Aisling Ahlstrom (Sweden)
12:50 – 13:00 Discussion
- 13:00 – 13:30 Final summary and discussions - Faculty
- 13:30 Lunch

The scientific programme may be subject to change.
For updated information, please consult the ESHRE website
www.eshre.eu see "Calendar"

