



European Congress of  
**ANDROLOGY**

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**ECA BARCELONA 2022**



19<sup>th</sup>, 20<sup>th</sup> & 21<sup>st</sup> October 2022

On behalf of the European Academy of Andrology (EAA), we are looking forward your participation at the **12th European Congress of Andrology (ECA 2022)**. This Congress represents the most relevant scientific and educational biennial event of our Academy being this year a very special edition as it coincides with the 30-year history of the EAA.

This event provides an excellent forum for discussing cutting-edge basic/translational and clinical research and clinical practice in all areas of Andrology. The program highlights includes **pre-congress course** (providing an **update on male reproduction** through educational lectures); **State-of-the-art lectures**; a new feature of the congress is the inclusion of **meet the expert sessions** (including discussions of new WHO as well as EAA guidelines, diagnosis/treatment of male urogenital infections biochemical assessment of androgen deficiency as well as ultrasound evaluation of the male reproductive system). Another important new concept will be the introduction of virtual **Eco-talks** (featuring high level international experts across the globe without the need for intercontinental travelling) on issues such as clonal mosaicism in sperm, studies on RNA sequencing profiles in testicular cells from the embryo to the aging male, as well as polygenic risk scores in predicting testis cancer risks. Also the presentation of the novel scientific work conducted by the young colleagues through the Network of Young Researchers in Andrology (NYRA) session, 'golden communications' and 'selected oral communications'.

This year also allows us to reinforce our relationship with the European Society of Endocrinology (ESE), the American Society of Andrology (ASA), EAU Section of Andrological Urology (ESAU), ESHRE and the newly established ANDRONET COST action. It is the place for exchanging ideas for promoting Andrology in Europe and outside the old continent and to further intensify our activities related to Male Health Awareness.

We do hope that you enjoy these three days full of Andrology and you will return home fully updated on all the essential aspects of Andrology.

Thanks to the support of the Fundació Puigvert, to which the Barcelona EAA center belongs, this is the second time we held ECA in Barcelona.

We welcome you to the **12th ECA Congress** and to **Barcelona!**

**Dirk Vanderschueren**  
Chair of the POC

**Jan-Bernd Stukenborg**  
Chair of the POC

**Eduard Ruiz-Castañé**  
Chair of the LOC

**Csilla Krausz**  
President of EAA

## COMMITTEES Programme Organizing Committee (POC)

**Chair:** Jan-Bernd Stukenborg, Sweden

**Chair:** Dirk Vanderschueren, Belgium

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**Jolanta Slowikowska-Hilczer,** Poland

**Suks Minhas,** UK

**Emmanuele Jannini,** Italy

**Jorma Toppari,** Finland

**Lise Aksglæde,** Denmark

**Joan Palou,** Spain

**Paulo Navarro-Costa,** Portugal

## FACULTY / INVITED SPEAKERS

**Lise Aksglæde**  
Denmark

**Joao Pedro Alves-Lopes**  
Sweden

**Leen Antonio**  
Belgium

**Yoni Baert**  
Belgium

**Christopher Barratt**  
UK

**Lluís Bassas**  
Spain

**Hermann Behre**  
Germany

**Carlo Bettocchi**  
Italy

**Lars Björndahl**  
Sweden

**Alberto Breda**  
Spain

**Matrin Breuss**  
USA

**Paolo Capogrosso**  
Italy

**Judit Castillo**  
Spain

**Giovanni Colpi**  
Switzerland

**Giovanni Corona**  
Italy

**Alberto de la Iglesia**  
Spain

**Martin Den Heijer**  
The Netherlands

**Maurizio De Rocco**  
Spain

**Thorsten Diemer**  
Germany

**Fotios Dimitriadis**  
Greece

**Marij Dinkelman-Smit**  
The Netherlands

**Alberto Ferlin**  
Italy

**Ferdinando Fusco**  
Italy

**Eduard García**  
Spain

**Nicolás Garrido**  
Spain

**Aleksander Giwercman**  
Sweden

**Anne Goriely**  
UK

**Jingtao Guo**  
China

**Gerhard Haidi**  
Germany

**Marie-Claude Hofmann**  
USA

**Andrea Isidori**  
Italy

**Emmanuele A.Jannini**  
Italy

**Davor Jezek**  
Croatia

**Meritxell Jodar**  
Spain

**Niels Jorgensen**  
Denmark

**Anders Juul**  
Denmark

**Ates Kadioglu**  
Turkey

**George Kanakis**  
Greece

**Sabine Kliesch**  
Germany

**Zsolt Kopa**  
Hungary

**Noora Kotaja**  
Finland

**Csilla Krausz**  
Italy

**Sandra Laurentino**  
Germany

**Francesco Lombardo**  
Italy

**Leendert Looijenga**  
The Netherlands

**Francesco Lotti**  
Italy

**Mario Maggi**  
Italy

**Ahmed Mahmoud**  
Belgium

**Daniel Marcu**  
UK

**Jaume Masià**  
Spain

**Andreas Meinhardt**  
Germany

**Suks Minhas**  
UK

**Rod Mitchell**  
UK

**Asif Muneer**  
UK

**Kathrine L. Nathanson**  
USA

**Paulo A. Navarro-Costa**  
Portugal

**Nina Neuhaus**  
Germany

**Rafael Oliva**  
Spain

**Joan Palou**  
Spain

**Scott Peterson**  
USA

**Osvaldo Rajmil**  
Spain

**Ewa Rajpert-De Meyts**  
Denmark

**David Ralph**  
UK

**Giulia Rastrelli**  
Italy

**Yacov Reisman**  
The Netherlands

**Antoni Riera**  
Spain

**Eduard Ruiz-Castañé**  
Spain

**Aurora Ruiz-Herrera**  
Spain

**Giorgio Russo**  
Italy

**Francesco Sanguedolce**  
Spain

**Daniele Santi**  
Italy

**Stefan Schlatt**  
Germany

**Hans Christian Schuppe**  
Germany

**Manuela Simoni**  
Italy

**Jolanta  
Slowikowska-Hilczer**  
Poland

**Nikolaos Sofikitis**  
Greece

**Adelheid Soubry**  
Belgium

**Timo Strünker**  
Germany

**Jan-Bernd Stukenborg**  
Sweden

**Jorma Toppari**  
Finland

**Herman Tournaye**  
Belgium

**Frank Tüttelmann**  
Germany

**Dirk Vanderschueren**  
Belgium

**Álvaro Vives**  
Spain

**Peter Vogt**  
Germany

**Jochen Walz**  
Germany

**Frederik Wu**  
UK

**Wei Yan**  
USA

**Tet Yap**  
UK

## POSTGRADUATE COURSE (14:45 -17:55)

Wednesday  
19<sup>th</sup> October

### ● Update on male reproduction

Moderators: **Joan Palou, Jan-Bernd Stukenborg**

14:45 - 15:05 h. Ancient origins of male infertility **Paulo Navarro-Costa**

15:05 - 15:25 h. Legacy of undescended testis **Jorma Toppari**

15:25 - 15:45 h. Genetic testing of azoospermia: what is new? **Csilla Krausz**

15:45 - 16:05 h. Medical care for adult male DSD patients **Jolanta Slowikowska-Hilczner**

16:05 - 16:35 h. Coffee break

16:35 - 16:55 h. Update on Klinefelter syndrome **Lise Aksglæde**

16:55 - 17:15 h. How to deal with sexual problems in infertile couples? **Emmanuele Jannini**

17:15 - 17:35 h. Surgical treatment in male infertility: what is new? **Suks Minhas**

● 17:35 - 17:55h. Medical treatment in male infertility: what is new? **Hermann Behre**

18:10 - 19:00 h. Opening Ceremony with Andrology Award

**Presenter: Csilla Krausz, Eduard Ruiz-Castañé, Jan-Bernd Stukenborg, Dirk Vanderschueren, Marie-Claude Hofmann, Aleksander Giwercman**

19:00 - 20:00 h. Golden orals

**Moderator: Francesco Lombardo, Ewa Rajpert-De Meyts**

○ Evaluation of familial cancer risk among Testicular Germ Cell Tumor patients

**Viktória Rosta**  
Hungary/Italy

○ Identification of cellular and molecular alterations underlying two distinct types of cryptozoospermia using single cell RNA sequencing

**Sara Di Persio**  
Germany

○ The role of unprocessed PRM2

**Lena Arevalo**  
Germany

○ Short chain fatty acids-mediated sperm chemotaxis: functional role of olfactory receptor 51E2 in human reproduction

**Emanuela Teveroni**  
Italy

20:00 h. Welcome Reception  
WTC

08:00 - 08:45 h. **Plenary Session 1 (ASA/EAA Exchange lecture)**

**Moderator: Jorma Toppari**

Male contraception in the 21st Century: an update  
**Wei Yan**

08:45 - 09:15 h. Coffee break

## Auditorium



### Clinical Science Session Genetics of male infertility

**Moderator: Lisa Aksglaede, Csilla Krausz**

09:15 - 09:40 h. ■

The testicular phenotypes of AZFb deletion carriers

**Peter Vogt**

09:40 - 10:05 h. ■

The role of X chromosome variants in azoospermia

**Antoni Riera**

10:05 - 10:30 h. ■

Exome analysis: time to advance the standard of care

**Frank Tüttelmann**

10:30 - 10:45 h. ■

Oral presentations:

- Mutational screening of androgen receptor gene in 8224 men of infertile couples

**Maria Santa Rocca.** Italy

## Room A2+A3

### Meet the Expert - Diagnosis in andrology

**Moderator: Marij Dinkelman-Smit**

09:15 - 10:00 h. ■

The contemporary role of ultrasound scan in Andrology

**Francesco Lotti**

**Moderator: Mario Maggi**

10:00 - 10:45 h. ■

How to biochemically assess androgen status?

**Leen Antonio**

## Room A1

### Clinical Science Session Infertility/male reproduction

**Moderator: Hermann Behre, Jolanta Slowikowska-Hilczer**

09:15 - 09:40 h. ■

Impacts of pharmaceutical exposures on male reproductive health (ECO-TALK)

**Rod Mitchell**

09:40 - 10:05 h. ■

Ageing effects on the male germline

**Sandra Laurentino**

10:05 - 10:30 h. ■

Male reproductive health and COVID-19

**Giulia Rastrelli**

10:30 - 10:45 h. ■

Oral presentations:

- Testicular Dysfunction in 47,XXY Boys: When It All Begins. A Prospective Study

**Franz Sesti.** Italy

10:45 - 11:30 h. **Plenary Session 2 (Basic Science)**

**Moderator:** Jan-Bernd Stukenborg

New mutations, selfish testes and human disease  
**Anne Goriely**

11:30 - 13:00 h. Lunch and posters

## Auditorium



### Basic Science Session (Epi) genetics of male reproductive function

**Moderator:** Andreas Meinhardt, Rafael Oliva

13:00 - 13:25 h. ■

Nutrition in men, fertility and offspring health: epigenetics insights

**Adelheid Soubry**

13:25 - 13:50 h. ■

Sperm-borne RNAs - the informers for future generations?

**Noora Kotaja**

13:50-14:15 h. ■

Chromosomal fusions and 3D genome folding and recombination in the germ line

**Aurora Ruiz-Herrera**

14:15-14:30 h. ■

Oral presentations:

- Y chromosome loss detected by karyotyping of men with azoospermia  
J. Fedder Denmark

## Room A2+A3

### Meet the Expert - Infections

**Moderator:** Gerhard Haidl

13:00 - 13:45 h. ■

A pictorial review of genital lesions

**Álvaro Vives**

**Moderator:** Giovanni Colpi

13:45 - 14:30 h. ■

Impact of infection and inflammation on the male reproductive tract

**Hans-Christian Schuppe**

## Room A1

### Clinical Science Session - Erectile dysfunction

**Moderator:** Emmanuele Jannini, Ahmed Mahmoud

13:00 - 13:25 h. ■

Erectile dysfunction in congenital hypogonadism: organic and non-organic risk factors **George Kanakis**

13:25 - 13:50 h. ■

A matter of time! - How can a two-step intracavernosal injection procedure improve the possibility of diagnosing psychological erectile dysfunction? **Daniele Santi**

13:50 - 14:30 h. ■

Oral presentations:

- Sperm DNA and Membrane integrity test (DMI test): a novel evaluation strategy of DNA fragmentation in viable spermatozoa. **Raul da Costa** Germany
- Eunuchoid skeletal proportions in male hypogonadism: a comparative analysis of anthropometric measures between men with congenital hypogonadotropic hypogonadism (CHH) and Klinefelter Syndrome (KS). **Sara De Vincentis** Italy
- Relevance of Sperm Origin in Klinefelter Patients for ICSI Outcome Rate: Large Single-Center Experience. **Hamid Kalantari** Iran

14:30 - 15:00 h. Coffee break

## Room A2+A3

### Industry Symposium

Chairman: **Eduard Ruiz-Castañé**

NOVO NORDISK PHARMA  
Obesity and Men's Health

15:00 - 15:05 h. ■

WELCOME & INTRODUCTION  
**Eduard Ruiz Castañé**

15:05 - 15:50 h. ■

Obesity influence on sexual  
dysfunction, fertility & QoL  
**Giovanni Corona**  
**Eduard Garcia**

15:50 - 16:20 h. ■

Role of Liraglutide in the  
treatment of obesity (clinical  
experience)  
**Maurizio de Rocco**

16:20 - 16:30 h. ■

Q&A

## Auditorium

### Clinical Science Session - Uro-Andrology

Moderators: **Suks Minhas, Joan Palou**

15:00 - 15:15 h. ■

PSA and MRI in 2022 in the diagnosis of prostate  
cancer: when to avoid prostate biopsies?

**Jochen Walz**

15:15 - 15:30 h. ■

Late effects of uro-oncological surgery on sexual function  
**Alberto Breda**

15:30 - 15:45 h. ■

Testosterone replacement in prostate cancer patients:  
is it safe?

**Francesco Sanguedolce**

15:45 - 16:00 h. ■

Testis sparing surgery. When and why?  
**Suks Minhas**

16:00 - 16:15 h. ■

Nerve-sparing techniques in prostate and bladder  
cancer surgery: do they improve the preservation of  
sexual function?

**Joan Palou**

16:15 - 16:30 h. ■

Q&A



## Room A1

### Basic Science Session - Sperm function and deregulation

Moderator: **Lluís Bassas, Davor Jezek**

15:00 - 15:25 h. ■

Clonal mosaicism in sperm cells  
(ECO-TALK)

**Martin Breuss**

15:25 - 15:50 h. ■

Sperm motility - Travels without bad  
conscience

**Timo Strünker**

15:50 - 16:15 h. ■

Sperm proteomics:  
A tool to unravel male reproductive  
function

**Meritxell Jodar**

16:15 - 16:30 h. ■

Oral presentations

- Infertile men with unknown etiology show alterations in the abundance of specific protamine proteoforms related to sperm chromatin packaging and age.  
**Judit Castillo** Spain

16:30 - 17:15 h. **Plenary Session 3 (ESE/EAA Exchange lecture)**

Moderator: **Manuela Simoni**

Reproductive endocrinology at the age of transition

**Anders Juul**

17:15 - 18:30 h. **EEA General Assembly**

20:30 h. **Gala Dinner**





08:15 - 09:00 h. **Plenary Session 4 (Clinical Science)**

**Moderator:** Dirk Vanderschueren

What lessons have we learned from the European Ageing Study (EMAS)?  
**Fredrik Wu**

Friday  
**21<sup>st</sup> October**

### Room A1

#### NYRA Session

**Moderator:** Alberto de la Iglesia,  
Daniel Marcu

09:00 - 09:50 h. ■

Testicular organoids:

The next big thing in male  
fertility R&D?

**Yoni Baert**

#### Oral presentations

09:50 - 10:05h. ■

The seminal plasma  
microbiome of men with  
testicular germ cell tumors

**Aïlsa Maria Main**

10:05 - 10:20 h. ■

Loss of XIST expression and  
the additional  
X-chromosome in Sertoli  
cells supporting focal  
spermatogenesis in men  
with Klinefelter syndrome

**Sofia Boeg**

### Auditorium

#### EAA meets ESHRE

**Moderator:** Csilla Krausz, Stefan Schlatt

09:00 - 09:25 h. ■

When to introduce a new diagnostic or  
therapeutic tool in the andrology laboratory  
based on scientific evidences

**Nicolás Garrido Puchault**

09:25 - 09:50 h. ■

Male Reproductive Health Awareness  
initiative by ESHRE (ECO-TALK)

**Chris Barratt**

09:50 - 10:10 h. ■

Oral presentations:

- In vitro somatic cell functionality as a measure of  
human testicular tissue quality for fertility  
preservation procedures. **Femke Harteveld** Sweden

#### Sponsored lecture

**Moderator:** Eduard Ruiz-Castañé

10:10 - 10:30 h. ■

Erectile dysfunction and quality of life  
**Scott Petterson** (ECO-TALK)

### Room A2+A3

#### ESAU COURSE - Penile surgery and sexual health

**Chairs:** Ates Kadioglu, Eduard Ruiz-Castañé

09:00 - 09:11 h. ■

Low-intensity shock wave treatment for  
erectile dysfunction

**Tet Yap**

09:11 - 09:22 h. ■

Sexual health after radical prostatectomy  
(ECO-TALK)

**David Ralph**

09:22 - 09:33 h. ■

Evaluation of plaque formation in  
Peyronie's disease: palpation vs  
ultrasound vs MRI

**Thorsten Diemer**

09:33 - 09:44 h. ■

Peyronie's surgery: choice of the appropriate  
graft

**Carlo Bettocchi**





**Room A2+A3**

**ESAU COURSE - Penile surgery and sexual health**

09:44 - 09:55 h. ■

Implantation of penile prosthesis in patients with Peyronie's disease: When and to whom?

**Ates Kadioglu**

09:55-10:06 h. ■

How to avoid penile prosthesis infections?

**Eduardo Ruiz-Castañé**

10:06-10:18 h. ■

Managing the complications of the penile prosthesis implant

**Ferdinando Fusco**

10:18 - 10:30 h. ■

The impact of COVID-19 on male sexual health

**Asif Muneer**

10:30 - 11:00 h. Coffee break

## Room A2+A3

### Basic Science Session - Spermatogonia and its niche

**Moderator:** Judit Castillo, Paulo Navarro-Costa

11:00 - 11:25 h. ■

RNA sequencing of the human testis - from the prenatal establishment to the last year in life (ECO-TALK)

**Jingtao Guo**

11:25 - 11:50 h. ■

Germ cells and non-malignant diseases - impacts of treatments or diseases

**Nina Neuhaus**

11:50 - 12:15 h. ■

Human primordial germ cell-like cell specification and progression in vitro

**João P. Alves-Lopes**

12:15 - 12:30 h. ■

Oral presentations:

- Novel culture conditions for the improvement of the in vitro expansion of human Spermatogonial Stem Cells. Future stem cell therapies to restore fertility in prepuberal boys enrolled in our experimental fertility preservation program.

**Myriam Martin-Inaraja** Spain

## Room A1

### Meet the Expert WHO manual and EAA Guidelines

**Moderator:** Niels Jorgensen

11:00 - 11:45 h. ■

Debate: How should the 2021 edition of the ISO23162: 2021 have relevant impact on andrological clinical care?

**Lars Björndahl, Chris Barratt**

11:45 - 12:30 h. ■

Update on EAA guidelines

**Giovanni Corona**

## Auditorium



### EAA/ESAU COURSE Onco-Andrology: An update on diagnosis and management effects

**Chairs:** Csilla Krausz, Nikolaos Sofikitis

11:00 - 11:22 h. ■

Update on the molecular diagnosis of testicular cancer

**Ewa Rajpert-De Meyts**

11:22 - 11:45 h. ■

Short - and long - term effects of oncological treatments on testis function

**Csilla Krausz**

11:45 - 12:07 h. ■

Fertility preservation in adult non-azoospermic or azoospermic males with testicular cancer

**Thorsten Diemer**

12:07 - 12:30 h. ■

The importance of testicular microlithiasis for: the andrologist and the oncologist

**Marij Dinkelman-Smit**

12:30 - 14:00 h. Lunch and Posters

## Auditorium



### Basic Science Session - Testicular cancer

**Moderator:** Alberto Ferlin, Ewa Rajpert-De Meyts

14:00 - 14:25 h. ■

Polygenic risk score in predicting testis cancer risk (ECO-TALK)  
**Katherine Nathanson**

14:25 - 14:50 h. ■

Clinical management of testicle tumors  
**Andrea Isidori**

14:50 - 15:15 h. ■

Germ cell cancers - many types one origin?  
**Leendert Looijenga**

15:15 - 15:30 h. ■

Oral presentations:

- Risk of Bilateral Testicular Germ cell Tumors: a single center long-term experience  
**Marta Tenuta** Italy

## Room A1

### Clinical Science Session Sexual medicine

**Moderator:** Mario Maggi, Osvaldo Rajmil

14:00 - 14:25 h. ■

Post SSRI sexual dysfunction (PSSD) and Post-Finasteride syndrome (PFS)  
**Yacov Reisman**

14:25 - 14:50 h. ■

Safety and side effects of hormonal treatment in transgenders  
**Martin den Heijer**

14:50 - 15:15 h. ■

Transgender genital surgery  
**Jaume Masià**

15:15 - 15:30 h. ■

Oral presentations:

- Effects of long-term GnRHa use on bone health in transgender adolescents: can a mouse model reveal novel insights for clinical practice? **Vanessa Dubois** Belgium

## Room A2+A3

### ESAU Male infertility: from the aetiology to the pharmaceutical and surgical treatment

**Chairs:** Aleksander Giwercman, Suks Minhas

14:00 - 14:12 h. ■

Risk of death: Azoospermic males vs non-azoospermic infertile males  
**Aleksander Giwercman**

14:12 - 14:24 h. ■

Do we need PDE5 inhibitors in male infertility clinics or in assisted reproductive technology laboratories?  
**Nikolaos Sofikitis**

14:24-14:36 h. ■

Sequence analysis of candidate genes for male infertility: clinical implications  
**Sabine Kliesch**





## Room A2+A3

### ESAU Male infertility: from the aetiology to the pharmaceutical and surgical treatment

**Debate: Are there any safe and effective treatments for infertile men with established damage in sperm DNA integrity?**

14:36-14:46 h. ■

Antioxidants decrease DNA Fragmentation Index and improve pregnancy rates in ART programs

Zsolt Kopa

14:46 - 14:56 h. ■

Probable detrimental effects of antioxidants; Excellence through Moderation

Fotios Dimitriadis

**A failed primary conventional TESE in non-obstructed azoospermic men: Considerations prior to the performance of a salvage TESE/mTESE**

14:56 - 15:06 h. ■

Are there any predictive factors for successful sperm recovery in the salvage TESE/mTESE?

Paolo Capogrosso

15:06 - 15:18 h. ■

May hormonal stimulation turn the first negative for sperm -TESE into a positive for sperm- salvage TESE/mTESE?

Suks Minhas

15:18 - 15:30 ■

May repair of an existing varicocele turn the first negative for sperm- TESE into a positive for sperm- salvage TESE/mTESE?

Giorgio Russo

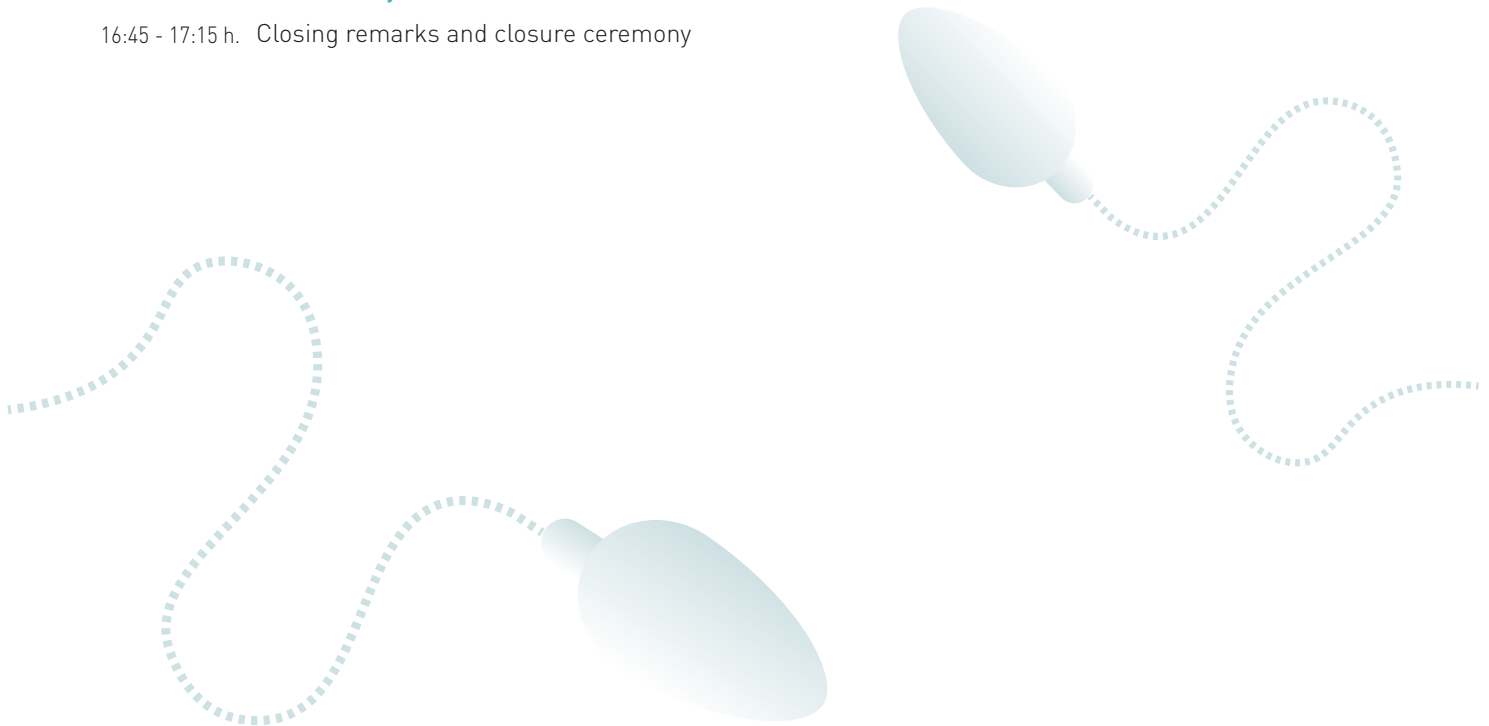
15:30 - 16:00 h. Coffee break

16:00 - 16:45 h. **Plenary Session 5 (Translational Science)**

**Moderator:** [Jan-Bernd Stukenborg](#)

How to deal with fertility preservation in boys  
[Herman Tournaye](#)

16:45 - 17:15 h. Closing remarks and closure ceremony



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- AMS 700 LGX significantly improved patient satisfaction and provided an overall penile length very close to the one obtained with a "natural" erection



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1. Dennis S, Martin D, Parker M, et al. Penile length alterations following penile prosthesis surgery. *Sex Urin*. 2007 Apr;31(4):1229-31.

2. Heigo CL, Rendall M, Rocca A, et al. Implantation of AMS 700 LGX penile prosthesis preserves penile length without the need for penile lengthening procedures. *Asian J Androl*. 2016 Jan-Feb;18(1):14-7.

3. Christine B, Bella A. Corroflex Expansion Cylinders: A Defined Post-Operative Inflation Protocol Yields Measurable Length Gain. *Sexual Medicine Society of North America Meeting*, Miami, Florida, Nov 2010 (poster80).

4. Data on file with Boston Scientific.

5. Awonni G, Di Santarone L, Bunn G, et al. Postoperative vacuum therapy following AMS™ LGX 700™ inflatable penile prosthesis placement: penile dimension outcomes and overall satisfaction. *Int J Impot Res*. 2014 Feb;11. [Epub ahead of print].

6. Kim YJ, Bae WS, Kim SW, et al. Experience with AMS 700 LGX penile prosthesis for preserving penile length in Korea. *BJU Int*. 2012 Jan;10:2870-5.

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\*Following a specific post-operative protocol.

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# 12<sup>TH</sup> European Congress of ANDROLOGY

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