



## **PROGRAM**

**13th European Congress of Andrology**

**4-6 September 2024**

**Stockholm, Sweden**

## COURSE What should the andrologist know in 2024?

### EAA - ANDRONET Course for Andrologists

Wednesday, 04 September 2024 | 12:45 - 15:25 CEST (GMT+1) | Mälarsalen

Chairs: Francesco Lombardo, Rafael Oliva, Zsolt Kopa

#### A-0225 Coping with diminished sexual arousal

Emmanuele A Jannini

Rome, Italy

#### A-0226 Sperm epigenetics - essential insights for clinicians

Alberto de la Iglesia

Université Paris Cité, INSERM, CNRS, Institut Cochin, Paris, France

#### A-0227 Sperm recovery and ICSI outcomes in Klinefelter syndrome

Marij Dinkelman-Smit

Erasmus MC University Medical Center, Rotterdam, The Netherlands

#### A-0228 Fertility preservation in boys – from bench to bedside

Stefan Schlatt

Centre for Reproductive Medicine and Andrology, University Münster, Germany

#### A-0229 Semen quality as a marker of health

Niels Jørgensen

Department of Growth & Reproduction, Copenhagen University Hospital – Rigshospitalet, Copenhagen, Denmark

#### A-0230 Male infertility: the role of prevention based on the etiology

Csilla Krausz

University of Florence, University Hospital Careggi, Florence Italy

#### A-0231 The burden of the aging male?

Aleksander Giwercman

Dept. of Translational Medicine, Lund University, Malmö, Sweden

#### A-0232 Hormonal male contraception – dead or alive?

Hermann M. Behre

Center for Reproductive Medicine and Andrology, University Medicine Halle, Halle, Germany

## OP1 Opening Ceremony

Wednesday, 04 September 2024 | 16:00 - 16:35 CEST (GMT+1) | Mälarsalen

Welcome: Jan-Bernd Stukenborg (LOC)

Scientific Program Introduction: Francesco Lombardo, Zsolt Kopa & Ewa Rajpert-De Meyts (POC co-Chairs)

EAA President's address: Hermann Behre (EAA)

## OP2 Opening lectures + Golden Oral Communications

Wednesday, 04 September 2024 | 16:35 - 17:50 CEST (GMT+1) | Mälarsalen

Chairs: Jan-Bernd Stukenborg, Aleksander Giwercman, Lars Björndahl, Mats Holmberg

#### A-0001 OPENING LECTURE: Egg-sperm recognition from mollusk to human

Luca Jovine

Karolinska Institutet, Department of Medicine, Huddinge, Sweden

#### A-0296 ANDROLOGY AWARD presentation: Erectile and sexual dysfunction in male and female patients with celiac disease: A cross-sectional observational study

Introduction: Aleksander Giwercman, L Romano, R Pellegrino, C Sciorio, B Barone, AG Gravina, A Santonastaso, C Mucherino, S Astretto, L Napolitano, A Aveta, SD Pandolfo, D Loizzo, F Giudice Del, M Ferro, C Imbimbo, M Romano, F. Crocetto

Italy

**A-0060 Clinical, seminal, hormonal and ultrasound andrological parameters predictive for pregnancy with a live birth**

Francesco Lotti, Gianluca Bartolomei, Beatrice Gasperetti, Giulia Asquino, Viviana Ciembrone, Elisabetta Baldi, Csilla Krausz, Mario Maggi  
University of Florence, Florence, Italy

**A-0093 Sperm epigenetic clock: its relationship with semen parameters and couples' reproductive success**

Savni Sawant, Oladele A. Oluwayiose, Karolina Nowak, DruAnne L. Maxwell, Emily Houle, Jitendra Barupal, Amanda L. Paskavitz, J. Richard Pilsner

C.S. Mott Center for Human Growth and Development, Department of Obstetrics and Gynecology, School of Medicine, Wayne State University, Detroit, USA

**A-0187 Unravelling the mechanisms behind the development of testicular germ cell tumours**

Emilio Ugalde-Morales<sup>1</sup>, Viola H. Lobert<sup>2</sup>, Trine B. Haugen<sup>3</sup>, Fredrik Wiklund<sup>1</sup>

<sup>1</sup> Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden; <sup>2</sup> Department of Mechanical, Electrical and Chemical Engineering, Oslo Metropolitan University, Oslo, Norway; <sup>3</sup> Department of Life Sciences and Health, Oslo Metropolitan University, Oslo, Norway

## PL1 Plenary session 1

Thursday, 05 September 2024 | 08:50 - 10:00 CEST (GMT+1) | Mälarsalen

Chairs: Manuela Simoni, Hermann Behre

**A-0002 EAA-ESE LECTURE: Decreasing male reproductive health: endocrine disrupters or something else?**

Anna-Maria Andersson

Dept. of Growth and Reproduction, Copenhagen University Hospital - Rigshospitalet, Denmark

**A-0003 EAA-ESSM LECTURE: Do "new" antihyperglycemic drugs impact on diabetic sexual dysfunctions?**

Giovanni Corona

Endocrinology Unit, Bologna University, Italy

## S04 SYMPOSIUM 04: Use and misuse of testosterone

Thursday, 05 September 2024 | 10:30 - 12:00 CEST (GMT+1) | Mälarsalen

Chairs: Hermann Behre, Niels Jørgensen

**A-0012 Androgen treatment in older men and cardiovascular risk (Summary of TRAVERSE trials)**

Shalender Bhasin

Director, Research Program in Men's Health: Aging and Metabolism, Harvard Medical School; Director, Boston Claude D. Pepper Older Americans Independence Center, Brigham and Women's Hospital, Boston, MA, USA

**A-0014 Effects of misuse of testosterone on male health**

Channa N. Jayasena

Section of Investigative Medicine, Imperial College London, London, UK

**A-0245 Secular trends of serum testosterone and LH levels in healthy men**

Daniele Santi<sup>1,2,3</sup>, Giorgia Spaggiari<sup>1,2</sup>, Chiara Furini<sup>1,3</sup>, Valentina Griseta<sup>1,3</sup>, Antonio RM Granata<sup>1,2</sup>, Manuela Simoni<sup>1,3</sup>

<sup>1</sup> Unit of Endocrinology, Department of Medical Specialties, Azienda Ospedaliero-Universitaria of Modena, Modena, Italy; <sup>2</sup> Unit of Andrology and Sexual Medicine of the Unit of Endocrinology, Department of Medical Specialties, Azienda Ospedaliero-Universitaria of Modena, Modena, Italy; <sup>3</sup> Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia, Modena, Italy

**A-0142 The increase of SHBG over time is associated with the development of androgen deficiency features independently of total testosterone: results from the European Male Ageing Study**

Dimitri Yannas<sup>1</sup>, Terence O'Neill<sup>2</sup>, Giovanni Corona<sup>3</sup>, Gyorgy Bartfai<sup>4</sup>, Felipe F. Casanueva<sup>5</sup>, Gianni Forti<sup>1</sup>, Dirk Vanderschueren<sup>6</sup>, Jolanta Słowikowska-Hilczner<sup>7</sup>, Aleksander Giwercman<sup>8</sup>, Margus Punab<sup>9</sup>, Ilpo Huhtaniemi<sup>10</sup>, Frederick C W Wu<sup>2</sup>, Mario Maggi<sup>1</sup>, Giulia Rastrelli<sup>1</sup>, EMAS Group

<sup>1</sup> University of Florence, Florence, Italy; <sup>2</sup> University of Manchester, Manchester, United Kingdom; <sup>3</sup> Maggiore Hospital, Bologna, Italy; <sup>4</sup> University of Szeged, Szeged, Hungary; <sup>5</sup> University of Santiago de Compostela, Santiago de Compostela, Spain; <sup>6</sup> University of Leuven, Leuven, Belgium; <sup>7</sup> University of Lodz, Lodz, Poland; <sup>8</sup> University of Malmö, Malmö, Sweden; <sup>9</sup> University of Tartu, Tartu, Estonia; <sup>10</sup> Imperial College London, London, United Kingdom

## S07 SYMPOSIUM 07: NYRA Session on Biology of Male Reproduction

Thursday, 05 September 2024 | 10:30 - 12:00 CEST (GMT+1) | Nobelterrassen

Chairs: Daniel Marcu, Gülizar Saritas

**A-0015 NYRA Young Investigator Award: Shedding light on the role of protamines in sperm packaging by gene editing**

Lena Arévalo

Department of Developmental Pathology, Institute of Pathology, University Hospital Bonn, Spain, Germany

**A-0113 Human germ cells undergo genome-wide DNA methylation reprogramming during spermatogenesis**

Lara M. Siebert-Kuss<sup>1</sup>, Verena Dietrich<sup>2</sup>, Sara Di Persio<sup>1</sup>, Jahnavi Bhaskaran<sup>3,4,5</sup>, Martin Stehling<sup>5</sup>, Jann-Frederik Cremers<sup>6</sup>, Sarah Sandmann<sup>2</sup>, Julian Varghese<sup>2</sup>, Sabine Kliesch<sup>6</sup>, Stefan Schlatt<sup>1</sup>, Juan M. Vaquerizas<sup>3,4,5</sup>, Nina Neuhaus<sup>1</sup>, Sandra Laurentino<sup>1</sup>

<sup>1</sup> Centre of Reproductive Medicine and Andrology, Institute of Reproductive and Regenerative Biology, University of Münster, Münster, Germany; <sup>2</sup> Institute of Medical Informatics, University of Münster, Münster, Germany; <sup>3</sup> MRC Laboratory of Medical Sciences, London, UK; <sup>4</sup> Institute of Clinical Sciences, Imperial College London, London, UK; <sup>5</sup> Max Planck Institute for Molecular Biomedicine, Münster, Germany; <sup>6</sup> Department of Clinical and Surgical Andrology, Centre of Reproductive Medicine and Andrology, University Hospital of Münster, Münster, Germany

**A-0095 Age-associated alterations in the human sperm DNA methylome**

Yihan Wang<sup>1</sup>, Pia Lange<sup>2</sup>, Sara Di Persio<sup>1</sup>, Simone Bier<sup>3</sup>, Claudia Krallmann<sup>3</sup>, Elisabeth Lahrmann<sup>1</sup>, Sarah Sandmann<sup>2</sup>, Julian Varghese<sup>2</sup>, Nina Neuhaus<sup>1</sup>, Sabine Kliesch<sup>3</sup>, Jörg Gromoll<sup>1</sup>, Sandra Laurentino<sup>1</sup>

<sup>1</sup> Centre of Reproductive Medicine and Andrology (CeRA), Institute of Reproductive and Regenerative Biology, University of Münster, Münster, Germany; <sup>2</sup> Institute of Medical Informatics (IMI), University of Münster, Münster, Germany; <sup>3</sup> Department of Clinical and Surgical Andrology, CeRA, University Hospital of Münster, Münster, Germany

**A-0183 Cyclicins are a structural component of the sperm calyx being indispensable for male fertility in mice and human**

Andjela Kovacevic<sup>1</sup>, Simon Schneider<sup>1,2</sup>, Michelle Mayer<sup>3</sup>, Ann-Kristin Dicke<sup>4</sup>, Lena Arévalo<sup>1</sup>, Sophie A. Koser<sup>4</sup>, Samuel Young<sup>5</sup>, Christoph Brenker<sup>5</sup>, Sabine Kliesch<sup>5</sup>, Gregor Kirfel<sup>6</sup>, Frank Tüttelmann<sup>4</sup>, Hubert Schorle<sup>1,2</sup>

<sup>1</sup> Institute of Pathology, Department of Developmental Pathology, Medical Faculty, University of Bonn; <sup>2</sup> Bonn Technology Campus, Core Facility "Gene-Editing", Medical Faculty, University of Bonn; <sup>3</sup> Life and Medical Sciences Institute, Department for Immunology and Environment, University of Bonn; <sup>4</sup> Institute of Reproductive Genetics, University of Münster, Münster, Germany; <sup>5</sup> Centre of Reproductive Medicine and Andrology, University Hospital Münster, University of Münster; <sup>6</sup> Institute for Cell Biology, University of Bonn

**A-0284 The use of artificial neural networks in predicting sperm presence in testicular tissue**

Ana Planinić<sup>1,2</sup>, Siniša Škokić<sup>3</sup>, Davor Ježek<sup>1,2</sup>

<sup>1</sup> Department of Histology and Embryology, School of Medicine, University of Zagreb, Zagreb, Croatia; <sup>2</sup> Scientific Centre of Excellence for Reproductive and Regenerative Medicine, Zagreb, Croatia; <sup>3</sup> Croatian Institute for Brain Research, School of Medicine, University of Zagreb, Zagreb, Croatia

**A-0114 Sperm telomere length and mitochondrial DNA copies: novel biomarkers of male infertility**

Maria Santa Rocca<sup>1</sup>, Ilaria Cosci<sup>3</sup>, Andrea Di Nisio<sup>2</sup>, Andrea Graziani<sup>2</sup>, Alberto Ferlin<sup>1,2</sup>

<sup>1</sup> University Hospital of Padova, Unit of Andrology and Reproductive Medicine, Padova, Italy; <sup>2</sup> University of Padova, Department of Medicine, Padova, Italy; <sup>3</sup> Veneto Institute of Oncology IOV-IRCCS, Padova, Italy

## S01 SYMPOSIUM 01: ESAU-EAA Symposium: New horizons in the treatment of erectile dysfunction

Thursday, 05 September 2024 | 10:30 - 12:00 CEST (GMT+1) | Magasinet

Chairs: Nikolaos Sofikitis, Zsolt Kopa

**A-0004 Extracorporeal shock wave technology for the alleviation of erectile dysfunction: An Update**

Jens Rassweiler

Danube Private University Krems, Austria

**A-0005 The potential impact of stem cells on male sexual health**

Andrea Salonia

Urological Research Institute (URI), IRCCS Ospedale San Raffaele, Milan, Italy

**A-0006 Is platelet-rich plasma useful in the treatment of erectile dysfunction?**

Asif Muneer

University College London (UCL), London, UK

**A-0008 A critical analysis of non-surgical treatment of Peyronie's disease**

Thorsten Diemer

Department of Urology, Pediatric Urology and Andrology, Justus Liebig University Giessen, Giessen, Germany

**A-0009 Penile prosthesis placement in ischemic priapism**

David Ralph

UCL, London UK

**A-0010 Efforts for penile transplantation**

Ates Kadioglu

Istanbul University, Turkey

**A-0011 Advances in the treatment of female sexual dysfunction**

Athanasios Zachariou

Department of Urology, School of Medicine, Ioannina University, Ioannina, Greece

**POST2 Poster session Thursday**

Thursday, 05 September 2024 | 12:00 - 13:30 CEST (GMT+1) | Mälarsalen

**A-0155 Correlation between trace elements and male fertility parameters in men with and without varicocele**

Michal Jeřeta<sup>1</sup>, Jiří Kalina<sup>2</sup>, Kateřina Franzová<sup>1</sup>, Markéta Myšková<sup>2</sup>, Lenka Mekiňová<sup>1</sup>, Igor Crha<sup>1,3</sup>, Pavel Ventruba<sup>1</sup>, Jana Navrátilová<sup>2</sup>

<sup>1</sup> Department of Gynecology and Obstetrics, University Hospital Brno and Faculty of Medicine, Masaryk University Brno, Czech Republic; <sup>2</sup> RECETOX Centre, Faculty of Science, Masaryk University, Brno, Czech Republic; <sup>3</sup> Department of Health Sciences, Faculty of Medicine, Masaryk University, Brno, Czech Republic

**A-0064 Morphological features of testicular biopsy in an azoospermic man with Robertsonian translocation between chromosomes 13 and 14**

Davor Ježek<sup>1,2,3</sup>, Marija Čapin Vilaj<sup>2,3</sup>, Dinko Hauptman<sup>3,4</sup>, Zoran Zimak<sup>3,4</sup>, Željko Kaštelan<sup>3,4</sup>

<sup>1</sup> University of Zagreb, School of Medicine, Dept. Histology and Embryology, Croatia; <sup>2</sup> Scientific Centre of Excellence for Reproductive and Regenerative Medicine, Croatia; <sup>3</sup> University Hospital Zagreb, Dept. for Transfusion Medicine and Transplantation Biology, Croatia; <sup>4</sup> University of Zagreb, Clinic for Urology, Croatia

**A-0065 Gly14-Humanin improve oligoasthenospermia in a mouse model by attenuating oxidative stress and ferroptosis**

Liu Yumeng, Lei Mengying, Feng Qiwen, Zou Liping, Zhu Changhong, Xia Wei

Institute of Reproductive Health, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China

**A-0078 Mito-Sperm-Signature: a possible new prognostic/diagnostic tool to assess men (in/sub)fertility by using mitochondrial dynamics markers in spermatozoa**

Silvana Andric, Tamara Bogdanovic, Tamara Tomanic, Isidora Keselj, Tatjana Kostic

Laboratory for Reproductive Endocrinology and Signaling, Laboratory for Chronobiology and Aging, CeRES, DBE, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

**A-0083 Sperm chromatin immaturity pre and post thawing: an in vitro study**

Giulia Traini<sup>1,2</sup>, Lara Tamburrino<sup>2</sup>, Sara Dabizzi<sup>2</sup>, Maria Emanuela Ragosta<sup>3</sup>, Linda Vignozzi<sup>1,2</sup>, Baldi Elisabetta<sup>2,3</sup>, Sara Marchiani<sup>1,2</sup>

<sup>1</sup> Dept of Experimental Clinical and Biomedical Sciences 'Mario Serio', University of Florence, Florence, Italy; <sup>2</sup> Andrology, Women's Endocrinology and Gender Incongruence Unit, Center for Prevention, Diagnosis and Treatment of Infertility, Careggi University Hospital, Florence, Italy; <sup>3</sup> Dept of Experimental and Clinical Medicine, University of Florence, Florence

**A-0085 Can microfluidic sperm device select spermatozoa with better characteristics in hyper-viscous samples? Comparative analysis between microfluidic sperm sorting and Swim-up technique**

Giulia Traini<sup>1,2</sup>, Maria Emanuela Ragosta<sup>3</sup>, Lara Tamburrino<sup>2</sup>, Linda Vignozzi<sup>1,2</sup>, Baldi Elisabetta<sup>2,3</sup>, Sara Marchiani<sup>1,2</sup>

<sup>1</sup> Dept. of Experimental Clinical and Biomedical Sciences 'Mario Serio', University of Florence, Florence, Italy; <sup>2</sup> Andrology, Women's Endocrinology and Gender Incongruence Unit, Center for Prevention, Diagnosis and Treatment of Infertility, Careggi University Hospital, Florence, Italy; <sup>3</sup> Dept. of Experimental and Clinical Medicine, University of Florence, Florence

**A-0086 TUNEL/PI and sperm chromatin dispersion test: comparison between the two methods for assessment of sperm dna fragmentation**

Giulia Traini<sup>1,2</sup>, Maria Emanuela Ragosta<sup>3</sup>, Lara Tamburrino<sup>2</sup>, Selene Degl'Innocenti<sup>2</sup>, Grazia Maria Fino<sup>2</sup>, Sara Dabizzi<sup>2</sup>, Linda Vignozzi<sup>1,2</sup>, Baldi Elisabetta<sup>2,3</sup>, Sara Marchiani<sup>1,2</sup>

<sup>1</sup> Dept of Experimental Clinical and Biomedical Sciences 'Mario Serio', University of Florence, Florence, Italy; <sup>2</sup> Andrology, Women's Endocrinology and Gender Incongruence Unit, Center for Prevention, Diagnosis and Treatment of Infertility, Careggi University Hospital, Florence, Italy; <sup>3</sup> Dept of Experimental and Clinical Medicine, University of Florence, Florence

**A-0089 Cell-free DNA fragment size analysis in seminal plasma from men with azoospermia, oligozoospermia, and normozoospermia: a pilot study**

Marija Lazovska<sup>1</sup>, Linda Gailite<sup>1</sup>, Violeta Fodina<sup>2</sup>, Juris Erenpreiss<sup>1,2</sup>

<sup>1</sup> Scientific Laboratory of Molecular Genetics, Riga Stradins University, Riga, Latvia; <sup>2</sup> Clinic IVF-Riga, Riga, Latvia

**A-0103 Sclerotherapy and Varicocele: Impact on Sperm Parameters**

Meriam Ben Tekaya, Ilhem Ghodhbane, Faradis Moalla, Hacene Bougateg, Sonia Jellad

Reproductive Biology department, Main Military Instruction Hospital of Tunis

**A-0137 Sperm DNA fragmentation is independent of lipid peroxidation and antioxidant enzymes in infertile men**

Muhammad Riaz<sup>1,2</sup>, Ghulam Rasool<sup>1</sup>

<sup>1</sup> Department of Allied Health Sciences, University of Sargodha, Sargodha, Pakistan; <sup>2</sup> Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan

**A-0172 Paradigm shift: from the function of AIRE in immunity to its non-immune role in spermatogenesis**

Dominik Filipp, Jana Petrusová

Laboratory of Immunobiology, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague, Czech Republic

**A-0186 Convolutional neural networks perform well in assessing sperm motility into WHO categories**

Trine B. Haugen<sup>1</sup>, Oliwia Witczak<sup>1</sup>, Eldri Undlien Due<sup>1</sup>, Steven A. Hicks<sup>2</sup>, Vajira Thambawita<sup>2</sup>, Lars Björndahl<sup>3</sup>, Michael A. Riegler<sup>2</sup>, Jorunn M. Andersen<sup>1</sup>

<sup>1</sup> Department of Life Sciences and Health, Oslo Metropolitan University, Oslo, Norway; <sup>2</sup> Simula Metropolitan Center for Digital Engineering, Oslo, Norway; <sup>3</sup> ANOVA, Karolinska University Hospital and Karolinska Institutet, Stockholm, Sweden

**A-0188 Spermatozoa with DNA breaks are more common in samples which have more sperm with impaired chromatin stability**

Petr Houska, Lars Björndahl, Ulrik Kvist

ANOVA, Clinic for Endocrinology, Karolinska University Hospital, and Department of Medicine Huddinge, Karolinska Institutet; Stockholm, Sweden

**A-0192 Comprehensive analysis of molecular biomarkers in ejaculates of young adults**

Oleg Sergeev<sup>1,2</sup>, Vitalik Bezuglov<sup>1</sup>, Natalia Soloveva<sup>3</sup>, Victoria Shtratnikova<sup>1</sup>, Nikita Vavilov<sup>3</sup>, Anatoliy Zubritskiy<sup>4</sup>, Paige L. Williams<sup>5</sup>, Susan Korrick<sup>5,6</sup>, Mary M. Lee<sup>7</sup>, Vasily Ashapkin<sup>1</sup>, Victor Zgoda<sup>3</sup>, Russ Hauser<sup>5</sup>, Alexander Suvorov<sup>8</sup>

<sup>1</sup> Belozersky Research Institute of Physico-Chemical Biology Lomonosov Moscow State University, Moscow, Russia; <sup>2</sup> Research Centre for Medical Genetics, Moscow, Russia; <sup>3</sup> Orekhovich Institute of Biomedical Chemistry, Moscow, Russia; <sup>4</sup> Institute of Bioengineering Research Center of Biotechnology, Moscow, Russia; <sup>5</sup> Harvard T.H. Chan School of Public Health, Boston, USA; <sup>6</sup> Brigham and Women's Hospital Harvard Medical School, Boston, USA; <sup>7</sup> Nemours Children's Health/Sidney Kimmel Medical School Jefferson University, Wilmington, USA; <sup>8</sup> School of Public Health and Health Sciences University of Massachusetts, Amherst, USA

**A-0199 Vitrification induces mitochondrial dysfunction by opening mPTP in human spermatozoa**

Anita Bravo<sup>1</sup>, Raúl Sánchez<sup>1,2</sup>, Fabiola Zambrano<sup>1,2</sup>, Marion Leon<sup>1</sup>, Pamela Uribe<sup>1,3\*</sup>

<sup>1</sup> Universidad de La Frontera, Faculty of Medicine, Center of Translational Medicine-Scientific and Technological Bioresource Nucleus (CEMT-BIOREN) Temuco, Chile; <sup>2</sup> Universidad de La Frontera, Faculty of Medicine, Department of Preclinical Science, Temuco, Chile; <sup>3</sup> Universidad de La Frontera, Faculty of Medicine, Department of Internal Medicine, Temuco, Chile

**A-0204 CD10 a new precise sperm diagnostic marker for male infertility**

Malen Zabala<sup>1,3</sup>, Ainize Odriozola<sup>1,3</sup>, Manu Araolaza<sup>1,3</sup>, Irune Calzado<sup>1,3</sup>, Iratxe Ajuria<sup>4</sup>, Lorena Crisol<sup>5</sup>, Nerea Subirán<sup>1,2,3</sup>

<sup>1</sup> Universidad del País Vasco (UPV/EHU) departamento de fisiología, Leioa, Spain; <sup>2</sup> Grupo Innovación en Reproducción Asistida, Instituto de Investigación Sanitaria Biobizkaia, Barakaldo, Spain; <sup>3</sup> MEPRO Medical Reproductive Solutions S.L., Donostia-San Sebastián, Spain; <sup>4</sup> Laboratorio de andrología, Hospital Galdakao-Usansolo, Galdakao, Spain; <sup>5</sup> Unidad de Reproducción Asistida, Hospital San Sebastián, San Sebastián, Spain

**A-0213 What we know currently about the role of gut microbiome in male reproductive system**

Chen Luo, Fuping Li

Department of Andrology/Sichuan Human Sperm Bank, West China Second University Hospital, Sichuan University, Chengdu, China

**A-0217 Sperm proteomic analysis in infertile patients treated for varicocele**

Giuseppe Grande<sup>1</sup>, Francesca Mancini<sup>2</sup>, Fiorella Di Nicuolo<sup>2</sup>, Michela Cicchinelli<sup>3</sup>, Emanuela Teveroni<sup>2</sup>, Emanuele Pierpaolo Vodola<sup>4</sup>, Silvia Baroni<sup>5</sup>, Federica Iavarone<sup>3,5</sup>, Andrea Urbani<sup>3,5</sup>, Alfredo Pontecorvi<sup>2,4</sup>, Domenico Milardi<sup>2,4</sup>, Alberto Ferlin<sup>1</sup>

<sup>1</sup> Unit of Andrology and Reproductive Medicine, University Hospital of Padova, Padova, Italy; <sup>2</sup> International Scientific Institute Paul VI, Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy; <sup>3</sup> Department of Basic Biotechnological Sciences, Intensivological and Perioperative Clinics, Catholic University of Sacred Heart, Rome, Italy; <sup>4</sup> Division of Endocrinology, Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy; <sup>5</sup> Clinical Chemistry, Biochemistry and Molecular Biology Operations (UOC) Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy

**A-0221 Dysfunction of sperm flagella: review from basic to clinical research**

Jinyan Xu<sup>1</sup>, Qingting Liu<sup>2</sup>, Fuping Li<sup>1</sup>

<sup>1</sup> Human Sperm Bank, West China Second University Hospital, Sichuan University, Chengdu, China; <sup>2</sup> Division of Obstetrics, Key Laboratory of Birth Defects and Related Disease of Women and Children of MOE, State Key Laboratory of Biotherapy, West China Second Hospital, Sichuan University, Chengdu, China

**A-0223 Seminal extracellular vesicles contribute to mitigate oxidative single-stranded DNA breaks**

Jordi Ribas-Maynou, Pablo Martínez-Díaz, Ana Parra, Jordi Roca, Isabel Barranco

Department of Medicine and Animal Surgery, Faculty of Veterinary Science, University of Murcia, Murcia, Spain

**A-0224 Septin 12 Abnormalities in response to Protamine 2 deficiency in Sperm**

Ondrej Sanovec<sup>1,2</sup>, Michaela Frolíková<sup>1</sup>, Veronika Kraus<sup>1</sup>, Jana Vondráková<sup>1</sup>, Maryam Qasemi<sup>1</sup>, Daniela Spevaková<sup>1</sup>, Ondrej Simonik<sup>1</sup>, Lindsay Moritz<sup>3</sup>, Drew Lewis Caswell<sup>4</sup>, Frantisek Liska<sup>5</sup>, Lukas Ded<sup>1</sup>, Tomer Avidor-Reis<sup>4,6</sup>, Saher Sue Hammoud<sup>3</sup>, Hubert Schorle<sup>7</sup>, Pavla Postlerova<sup>1,8</sup>, Klaus Steger<sup>9</sup>, Katerina Komrskova<sup>1,10</sup>

<sup>1</sup> Institute of Biotechnology CAS, Vestec, Czech Republic; <sup>2</sup> Dept. of Physiology, Faculty of Science, Charles University, Prague, Czech Republic; <sup>3</sup> University of Michigan, Ann Arbor, MI, USA; <sup>4</sup> College of Natural Sciences and Mathematics, University of Toledo, Toledo, OH, United States; <sup>5</sup> First Faculty of Medicine, Charles University and General University Hospital in Prague, Prague, Czech Republic; <sup>6</sup> College of Medicine and Life Sciences, University of Toledo, Toledo, OH, United States; <sup>7</sup> Institute of Pathology, University Hospital Bonn, Bonn, Germany; <sup>8</sup> Faculty of Agrobiological, Food and Natural Resources, University of Life Sciences Prague, Czech Republic; <sup>9</sup> Clinic of Urology, Paediatric Urology and Andrology, Molecular Andrology, Justus Liebig University of Giessen, Giessen, Germany; <sup>10</sup> Dept. of Zoology, Faculty of Science, Charles University, Prague, Czech Republic

**A-0235 Do the semen microbiota compositions differ substantially in particular entities of male infertility?**

Monika Fraczek<sup>1</sup>, Marzena Skrzypczak-Zielinska<sup>1</sup>, Karolina Mokrzan<sup>1</sup>, Lukasz Wojnar<sup>2</sup>, Oliwia Zakerska-Banaszak<sup>1</sup>, Kacper Maciejewski<sup>3</sup>, Marzena Kamieniczna<sup>1</sup>, Laura Grzeskowiak<sup>4</sup>, Lukasz Wolko<sup>5</sup>, Maciej Kurpisz<sup>1</sup>

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**A-0256 Impact of Yoga-primed serum from infertile men on Prostate cancer cell characteristics**

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**A-0266 Localization of importins in male germ cells and during sperm maturation using Structured Illumination Microscopy**

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**A-0056 bulbospongiosus muscles cutting with frenular delta excision and neurectomy for treatment of premature ejaculation (alaa aglan5) operation**

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Alaa Clinic Hospital, Giza, Egypt

**A-0058 Glans augmentation and glans – bulbospongiosus reflex**

Alaa Aglan

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**A-0063 Sperm retrieval success in men with Klinefelter syndrome can be predicted by testicular volume**

Jens Fedder <sup>1,2</sup>, Ann Mains Milton <sup>1</sup>, Erik Jessen <sup>1</sup>, Claus H. Gravholt <sup>3,4,5</sup>, Anne Skakkebaek <sup>3,5,6</sup>, Linn Salto Mamsen <sup>7</sup>, Claus Yding Andersen <sup>7</sup>, Emma B. Johannsen <sup>3,5</sup>, Tilde Veng Eskildsen <sup>1,2</sup>, Karina Blach <sup>1</sup>

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**A-0067 Identification of fertilization-competent human spermatozoa by artificial intelligence**

William S B Yeung <sup>1,3</sup>, Erica T Y Leung <sup>1</sup>, Xianghan Mei <sup>2</sup>, Kevin K W Lam <sup>1</sup>, Lequan Yu <sup>2</sup>, Philip C N Chiu <sup>1,3</sup>

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**A-0073 Vasectomy histology; is it still useful?**

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**A-0076 Novel Diagnostic of Prostate Cancer Using Urine-Derived Exosomes: Prospective Pilot Study**

Nobuyuki Tanaka <sup>1</sup>, Shun Iwasa <sup>1</sup>, Yuji Yoshida <sup>2</sup>, Hiroki Yamaguchi <sup>2</sup>, Yoriko Ando <sup>2,3</sup>, Yumi Nishiyama <sup>2</sup>, Mika Mizunuma <sup>2</sup>, Yuki Ichikawa <sup>2,3</sup>, Takeo Kosaka <sup>1</sup>, Mototsugu Oya <sup>1</sup>

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**A-0081 Penile shear wave elastography may predict the outcome of intra-cavernosal injection by Onabotulinumtoxin A (Botox) in management of men with erectile dysfunction and phosphodiesterase- 5 inhibitors non-responders**

M. W. Ragab <sup>1</sup>, A. El-Bohy <sup>2</sup>, A. Z. E. D. Bendary <sup>2</sup>, K. A. Shawky <sup>2</sup>

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**A-0097 The Role of Varicocelelectomy in Infertile Men with Clinical Varicocele, Normal Semen Parameters and Isolated High Sperm DNA Fragmentation**

Ahmed Al Saedi <sup>1</sup>, Mohamed Arafa <sup>1,2,3</sup>, Haitham Elbardisi <sup>1,2,4</sup>, Kareim Khalafalla <sup>1</sup>, Ahmad Al Malki <sup>1,4</sup>, Ahmad Majzoub <sup>1,2</sup>

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**A-0107 Erectile function in patients on methadone maintenance treatment**

Sava Petrov, Maria Ortbetzova

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**A-0108 Effect Of Varicocelelectomy on Fertility Potential and Pregnancy Outcome: Results of a Large Cohort from a Tertiary Medical Center**

Ahmed Al Saedi <sup>1</sup>, Ahmad Majzoub <sup>1,2</sup>, Mohamed Arafa <sup>1,2,3</sup>, Khalid Al Kubaisi <sup>1</sup>, Kareim Khalafalla <sup>1</sup>, Ahmad Al Malki <sup>1,4</sup>, Haitham Elbardisi <sup>1,2,4</sup>

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**A-0109 A systemic review exploring the relationship between varicocele and premature ejaculation**



Mohamed Mahdi<sup>1</sup>, Mohamed Arafa<sup>1,2,3</sup>, Haitham Elbardisi<sup>1,2,4</sup>, Kareim Khalafalla<sup>1</sup>, Ahmad Majzoub<sup>1,2</sup>

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**A-0112 What do patients with Peyronie's disease expect from therapy? A prospective multi-center study**

Lukas Schäfer<sup>1</sup>, Jann-Frederik Cremers<sup>2</sup>, Bahne Witschel<sup>1</sup>, Victor Schuettfort<sup>1</sup>, Timo Nieder<sup>3</sup>, Frederik Koenig<sup>1</sup>, Malte Vetterlein<sup>1</sup>, Philipp Gild<sup>1</sup>, Roland Dahlem<sup>1</sup>, Margit Fisch<sup>1</sup>, Sabine Kliesch<sup>2</sup>, Armin Soave<sup>1</sup>

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**A-0116 Ferroptosis in human spermatozoa from fertile and infertile patients**

Laura Liguori<sup>1</sup>, Roberta Corsaro<sup>1</sup>, Elena Moretti<sup>1</sup>, Cinzia Signorini<sup>1</sup>, Lucia Micheli<sup>2</sup>, Fabiola Nerucci<sup>3</sup>, Giulia Collodel<sup>1</sup>

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**A-0121 Is transurethral prostate surgery an option for the treatment of male infertility?**

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**A-0123 Comprehensive approach to male factor infertility allows defining the diagnosis and restoring natural fertility**

Giuseppe Grande<sup>1</sup>, Andrea Garolla<sup>1</sup>, Andrea Graziani<sup>1</sup>, Anna Laura Astorri<sup>2</sup>, Maria Vittoria Cammarota<sup>3</sup>, Maria Pia Ambrosini<sup>4</sup>, Enrico Busato<sup>5</sup>, Giuseppina Pompa<sup>2</sup>, Domenico Milardi<sup>2</sup>, Alberto Ferlin<sup>1</sup>

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**A-0126 Prevalence of HPV infection in the general population of young and adult males in Italy**

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**A-0127 Ejaculatory duct obstruction: a single center experience over 14 years**

A. Schirmann, C. Leung, G. Chiriacci, A. Katelaris, C. Allen, D. Ralph, P. Sangster

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**A-0131 Sperm DNA fragmentation – an important factor in IVF succes?**

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**A-0135 Gonadal and sexual function in men living with HIV: a real-life single centre study**

Ilaria Bonaventura<sup>1</sup>, Nicolò Francesco D'Addario<sup>1</sup>, Lorenzo Cerroni<sup>1</sup>, Valentina Sada<sup>1</sup>, Valeria Hasenmajer<sup>1</sup>, Gabriella D'Ettorre<sup>2</sup>, Claudio Mastroianni<sup>2</sup>, Carlotta Pozza<sup>1</sup>, Daniele Gianfrilli<sup>1</sup>

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**A-0138 Clomiphene citrate as an initial approach to improve idiopathic male infertility**

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**A-0140 Interventions lowering sperm DNA fragmentation**

Anett Szabó<sup>1,2</sup>, Szilárd Váncsa<sup>2,3,4</sup>, Tamás Kói<sup>2</sup>, Júlia Ács<sup>1,2</sup>, Péter Nyirády<sup>1,2</sup>, Zsolt Kopa<sup>1,2</sup>

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**A-0149 Reproductive and sexual risk factors, habits and dysfunctions in almost 100.000 young Italian men and women**

Andrea Graziani<sup>1</sup>, Giuseppe Grande<sup>2</sup>, Alberto Ferlin<sup>1,2</sup>

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**A-0152 Unveiling Health Issues in Men with Normozoospermic Infertility: The Critical Role of Comprehensive Andrological Assessments**

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**A-0154 The association between urinary metabolite of pyrethroid insecticides and reproductive serum hormone levels among young men from general population in Poland**

Przemysław Soczomski<sup>1</sup>, Joanna Jurewicz<sup>2</sup>, Wojciech Hanke<sup>3</sup>, Bartosz Wielgomas<sup>4</sup>, Katarzyna Marchlewska<sup>1</sup>, Jolanta Słowikowska-Hilczler<sup>1</sup>, Renata Walczak-Jędrzejowska<sup>1</sup>

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**A-0158 Hyponatremia, hypernatremia and impairment of functional, psychological and sexual domains**

Dario Norello <sup>1</sup>, Giulia Rastrelli <sup>1</sup>, Leen Antonio <sup>2,3</sup>, Gyorgy Bartfai <sup>4</sup>, Felipe F. Casanueva <sup>5</sup>, Aleksander Giwercman <sup>6</sup>, Ilpo T. Huhtaniemi <sup>7</sup>, Terence W. O'Neill <sup>8</sup>, Margus Punab <sup>9</sup>, Jolanta Słowikowska-Hilczner <sup>10</sup>, Jos Tournoy <sup>2</sup>, Dirk Vanderschueren <sup>2,3</sup>, Frederick C. W. Wu <sup>8</sup>, Mario Maggi <sup>1</sup>, Alessandro Peri <sup>1</sup>

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**A-0165 Klinefelter Syndrome in a Tertiary Referral Clinic: A Case Series and Clinical Audit**

Jinghang Luo <sup>1,2</sup>, Stella Sarlos <sup>1,2</sup>, Rinky Giri <sup>1,2</sup>, Ie-Wen Sim <sup>1,2</sup>, Robert McLachlan <sup>1,2</sup>, Carolyn Allan <sup>1,2,3,4</sup>, Rita Upreti <sup>1,2,5</sup>

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**A-0185 Semen analysis outcomes of varicocele repair in non-obstructive azoospermic patients**

Isabel Dighero, Giovanni Chiaraco, Anthony Emmanuel, M Shabbir, Philippa Sangster  
University College London Hospital, London, United Kingdom

**A-0189 Relationship between male aging and semen quality: a retrospective study on over 2,500 men**

Luca Spagnolo, Giuliana Cordeschi, Camilla Tonni, Maria Totaro, Daniele Tienforti, Arcangelo Barbonetti  
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**A-0190 Unconventional ejaculatory abstinence period and its impact on seminal parameters in abnormal diagnostic samples**

Piotr Sokol, Marta Ballester, Ignacio Rodríguez, Nikolaos P. Polyzos  
Department of Obstetrics, Gynecology and Reproductive Medicine, Dexeus University Hospital, Barcelona, Spain

**A-0193 Efficacy of nutraceuticals in the treatment of erectile dysfunction: a network meta-analysis**

Daniele Tienforti <sup>1</sup>, Luca Spagnolo <sup>1</sup>, Maria Totaro <sup>1</sup>, Giovanni Corona <sup>2</sup>, Arcangelo Barbonetti <sup>1</sup>

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**A-0194 The influence of female sexual dysfunction on male sexual function: a cross-sectional study**

Athanasios Zachariou <sup>1</sup>, Fotios Dimitriadis <sup>2</sup>, Dimitrios Zachariou <sup>3</sup>, Ioannis Giannakis <sup>1</sup>, Aris Kaltsas <sup>4</sup>, Michail Chrisofos <sup>4</sup>, Charalampos Mamoulakis <sup>5</sup>, Dung Ba Tien Mai <sup>6</sup>, Bou Sopheap <sup>7</sup>, Atsushi Takenaka <sup>8</sup>, Nikolaos Sofikitis <sup>1</sup>

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**A-0195 "Non-classical" testicular asymmetry in men with idiopathic severe oligoasthenoeratozoospermia syndrome**

Iurii Arian <sup>1,2</sup>, Ion Dumbraveanu <sup>1,2</sup>, Victoria Ghenciu <sup>2</sup>, Sandu Druta <sup>2</sup>, Emil Ceban <sup>1,2</sup>

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**A-0196 Preliminary data on the effects of gender affirming hormone therapy on erythropoiesis**

Alberto Scala <sup>1,4</sup>, Michel Martin <sup>1</sup>, Elena Campello <sup>2,4</sup>, Luca De Toni <sup>1,4</sup>, Fabrizio Vianello <sup>3,4</sup>, Paolo Simioni <sup>2,4</sup>, Andrea Graziani <sup>1</sup>, Raffaele Scafa <sup>1</sup>, Alberto Ferlin <sup>1</sup>, Andrea Garolla <sup>1,4</sup>

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**A-0201 Quantitative spermatogenesis progression analysis reveals that partial arrest phenotypes reduce the chance of having a healthy life born after TESE-ICSI**

Kaylee Holleman <sup>1,2</sup>, Esther Sleddens-Linkels <sup>2</sup>, Cindy Eleveld <sup>1</sup>, Marij Dinkelman-Smit <sup>3</sup>, Esther Baart <sup>1,2</sup>, Willy Baarends <sup>2</sup>

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**A-0234 Sperm DNA Fragmentation: An Innovative Treatment**

Moises Abraham Adel Dominguez, Andres Mora Topete  
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**A-0237 Unique finding in a non-palpable testicular mass – Case report**

Erzsébet Hajdú <sup>1</sup>, Judit Vargha <sup>1</sup>, Anett Szabó <sup>1</sup>, Eszter Székely <sup>2</sup>, Zsolt Kopa <sup>1</sup>

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**A-0241 Changes in self-reported sexual function between “pre-COVID” and “post-COVID”: a propensity score matched study**

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**A-0253 Impact of sperm factor WHO 2021-based on embryological and clinical outcomes. A single center study of 4013 PGT-A cycles**

Rossella Mazzilli<sup>1,2</sup>, Danilo Cimadomo<sup>2</sup>, Lisa Dovero<sup>2</sup>, Federica Innocenti<sup>2</sup>, Roberta Maggiulli<sup>2</sup>, Susanna Ferrero<sup>2</sup>, Alberto Vaiarelli<sup>2</sup>, Antongiulio Faggiano<sup>1</sup>, Laura Rienzi<sup>3</sup>, Alberto Ferlin<sup>4</sup>, Filippo Maria Ubaldi<sup>2</sup>

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**A-0257 Cross-sectional and longitudinal data on the prevalence and degree of erectile dysfunction in a large subgroup of men participating in the German National Cohort**

Hermann M. Behre<sup>1</sup>, Alexander Kluttig<sup>2</sup>, Rafael Mikolajczyk<sup>2</sup>, Ivan Hoffmann<sup>1</sup>, Thomas Greither<sup>1</sup>

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**A-0258 Association between COVID 19 infection, vaccination and reproductive parameters in young men seeking help due to infertility. Results from ReproUnion Biobank and Infertility Cohort (RUBIC)**

Angel Elenkov<sup>1,2</sup>, Filippa Ferm<sup>1</sup>, Niels Jørgensen<sup>3</sup>, Lærke Priskorn<sup>3</sup>, Aleksander Giwercman<sup>1,2</sup>

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**A-0262 The Psychosexual impact of Penile Prosthesis implant among erectile dysfunction patients and their partners: A cohort study**

Mohamed AbdElSalam<sup>1</sup>, Amr Gadalla<sup>1</sup>, Mohamed Nasreldin<sup>2</sup>, Mina Saad<sup>1</sup>, Ashraf Zidan<sup>1</sup>, Adel A<sup>1</sup>

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**A-0272 Monorchid subjects as a clinical model to explore the significance of testicular microlithiasis: the experience of the TestisUnit**

Marta Tenuta, Franz Sesti, Francesco Carlomagno, Davide Ferrari, Francesco Angelini, Giulia Pellegrini, Donatella Paoli, Daniele Gianfrilli, Andrea M Isidori, Carlotta Pozza

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**A-0273 Effects of self-reported porn abuse on psychological and sexological outcomes in 213 men**

Andrea Sansone<sup>1</sup>, Daniele Mollaioli<sup>2</sup>, Giacomo Ciocca<sup>3</sup>, Elena Colonnello<sup>1,4</sup>, Erika Limoncin<sup>3</sup>, Emmanuele A. Jannini<sup>1</sup>

<sup>1</sup> University of Rome Tor Vergata, Chair of endocrinology and medical sexology (ENDOSEX) Dept. of systems medicine, Rome, Italy; <sup>2</sup> University of Messina, Department of Clinical and Experimental Medicine, Messina, Italy; <sup>3</sup> Sapienza University of Rome, Department of Dynamic and Clinical Psychology, Health Studies, Rome, Italy; <sup>4</sup> Sapienza University of Rome, Section of Medical Pathophysiology, Food Science and Endocrinology, Rome, Italy

**A-0274 Penile granulomatosis with polyangiitis: Genital Presentation of a Systemic Disease**

Ágnes Ficzeré, István Király

Albert Szent-Györgyi Health Centre Department of Urology, Szeged, Hungary

**A-0275 Beyond Male Fertility: Unveiling the Hidden Threat. A Case Study of Extragonadal Choriocarcinoma**

Francesco Angelini<sup>1</sup>, Franz Sesti<sup>2</sup>, Marta Tenuta<sup>1</sup>, Giulia Pellegrini<sup>1</sup>, Matteo Spaziani<sup>1</sup>, Alain J. Gelibter, Daniele Gianfrilli<sup>1</sup>, Andrea M. Isidori<sup>1,3</sup>, Carlotta Pozza<sup>1</sup>

<sup>1</sup> Department of Experimental Medicine, “Sapienza” University of Rome, Italy; <sup>2</sup> Medical Oncology (B), Policlinico Umberto I, “Sapienza” University of Rome, Italy; <sup>3</sup> Centre for Rare Diseases (Endo-ERN accredited), Policlinico Umberto I, Rome, Italy

**A-0276 Patient characteristics that predict elevated prostate-specific antigen levels in men from infertile couples. Preliminary results from the ReproUnion Biobank and Infertility Cohort (RUBIC)**

Michael Kitlinski<sup>1</sup>, Angel Elenkov<sup>1,2</sup>, Yvonne Lundberg Giwercman<sup>1</sup>, Lærke Priskorn<sup>3</sup>, Niels Jørgensen<sup>3</sup>, Aleksander Giwercman<sup>1,2</sup>

<sup>1</sup> Department of Translational Medicine, Lund University, Malmö, Sweden; <sup>2</sup> Reproductive Medicine Centre, Skåne University Hospital, Malmö, Sweden; <sup>3</sup> Department of Growth and Reproduction - Rigshospitalet, Copenhagen, Denmark

**A-0279 Microsurgical resection of non-palpable testicular tumors**

Judit Vargha<sup>1</sup>, Erzsébet Hajdú<sup>1</sup>, Eszter Székely<sup>2</sup>, Anett Szabó<sup>1</sup>, Zsolt Kopa<sup>1</sup>

<sup>1</sup> Andrology Center, Department of Urology, Semmelweis University, Budapest, Hungary; <sup>2</sup> Department of II. Pathology, Semmelweis University, Budapest, Hungary

**A-0280 Reliability of the Orgasmometer scores for different time frames: development of the 6-months male Orgasmometer Scale**

Andrea Sansone<sup>1</sup>, Daniele Mollaioli<sup>2</sup>, Giacomo Ciocca<sup>3</sup>, Elena Colonnello<sup>1,4</sup>, Erika Limoncin<sup>3</sup>, Emmanuele A. Jannini<sup>1</sup>

<sup>1</sup> University of Rome Tor Vergata, Chair of endocrinology and medical sexology (ENDOSEX) Dept. of systems medicine, Rome, Italy; <sup>2</sup> University of Messina, Department of Clinical and Experimental Medicine, Messina, Italy; <sup>3</sup> Sapienza University of Rome, Department of Dynamic and Clinical Psychology, Health Studies, Rome, Italy; <sup>4</sup> Sapienza University of Rome, Section of Medical Pathophysiology, Food Science and Endocrinology, Rome, Italy

**A-0281 Paradoxical outcome of quantitative ultrasound echotexture analysis in patients with high-grade aneuploidies**

Franz Sesti<sup>1</sup>, Davide Ferrari<sup>1</sup>, Giulia Pellegrini<sup>1</sup>, Arianna Gagliardi<sup>1</sup>, Ludovica Vincenzi<sup>1</sup>, Daniele Gianfrilli<sup>1</sup>, Andrea M. Isidori<sup>1,2</sup>, Carlotta Pozza<sup>1</sup>  
<sup>1</sup> Department of Experimental Medicine, Sapienza University of Rome, Italy; <sup>2</sup> Centre for Rare Diseases (Endo-ERN accredited) Policlinico Umberto I, Rome, Italy

**A-0282 Autosomal Anomalies in Infertile Men**

Murat Dursun<sup>1</sup>, Rifat Ergül<sup>1</sup>, Mehmet Gürcan<sup>1</sup>, Reşat Aydın<sup>1</sup>, Murat Kaya<sup>2</sup>, Tuğba Kalaycı<sup>3</sup>, Ateş Kadioğlu<sup>1</sup>  
<sup>1</sup> Istanbul University, Istanbul Faculty of Medicine, Urology Department, Istanbul, Turkey; <sup>2</sup> Istanbul University, Istanbul Faculty of Medicine, Department of Internal Medicine, Division of Medical Genetics, Istanbul, Türkiye; <sup>3</sup> Department of Medical Genetics, Istanbul Faculty of Medicine, Istanbul University, Istanbul, Turkey

**A-0288 Insights into Male Sexual Dysfunction Management: Perspectives from Indian Urologists and Nutraceutical Interventions**

Kapil Dev Mehta, Sarita Bajpai  
Medical Affairs, J.B. Chemicals and Pharmaceuticals Limited, Mumbai, India

**POST1 Poster Session Thursday-Friday**

Thursday, 05 September 2024 | 12:00 - 13:30 CEST (GMT+1) | Mälarsalen

**A-0238 European Andrology Network: research coordination, education, and public awareness in the field of andrology (COST Action CA20119)**

Rafael Oliva<sup>1</sup>, Csilla Krausz<sup>2</sup>, Ewa Rajpert-De Meyts<sup>3</sup>  
<sup>1</sup> Fundació de Recerca Clínic Barcelona - IDIBAPS research Institute (FRCB-IDIBAPS), Clinic - Barcelona, and University of Barcelona, Barcelona, Spain; <sup>2</sup> University of Florence, Italy; <sup>3</sup> Rigshospitalet, Denmark

**A-0098 Genome-wide allele-specific expression in post-meiotic haploid spermatids**

Daniel Marcu<sup>1</sup>, Rashesh Sanghvi<sup>2</sup>, Raheleh Rahbari<sup>2</sup>, Simone Immler<sup>1</sup>  
<sup>1</sup> School of Biological Sciences, University of East Anglia, United Kingdom; <sup>2</sup> Wellcome Trust Sanger Institute, Wellcome Genome Campus, Hinxton, Cambridge, UK

**A-0171 Novel protamine mouse models: the importance of the protamine ratio, amount and domains**

Gina Esther Merges<sup>1</sup>, Lena Arévalo<sup>2</sup>, Christoph Wiesejahn<sup>1</sup>, Simon Schneider<sup>1</sup>, Ilse Hamers<sup>1</sup>, Hubert Schorle<sup>1</sup>  
<sup>1</sup> Department of Developmental Pathology, Institute of Pathology, University Hospital Bonn, Bonn, Germany; <sup>2</sup> Department of Animal Reproduction, Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Madrid, Spain

**A-0212 Testing of a new method to visualize and quantify DNA fragmentation in spermatozoa**

Pia S. Halvorsen<sup>1</sup>, Ingvild Aas<sup>1</sup>, Mario Iliceto<sup>2</sup>, Anne Hege Alm-Kristiansen<sup>3</sup>, Else-Berit Stenseth<sup>3</sup>, Trine B. Haugen<sup>1</sup>, Oliwia Witczak<sup>1</sup>, Erwan Delbarre<sup>3</sup>  
<sup>1</sup> OsloMet – Oslo Metropolitan University, Oslo, Norway; <sup>2</sup> Volvat Spiren, Oslo, Norway; <sup>3</sup> Inland Norway University of Applied Sciences, Hamar, Norway

**A-0181 Preferential positioning of sex chromosomes and higher chromatin condensation after selection of high-quality spermatozoa**

Zuzanna Graczyk<sup>1</sup>, Jagoda Kostyk<sup>1</sup>, Julia Pospieszna<sup>1,2</sup>, Zuzanna Myślicka<sup>1</sup>, Marzena Kamieniczna<sup>1</sup>, Marta Olszewska<sup>1(\*)</sup>(#), Maciej Kurpisz<sup>1</sup>(#)  
<sup>1</sup> Institute of Human Genetics, Polish Academy of Sciences, Poznan, Poland; <sup>2</sup> Poznan University of Medical Sciences, Department of Toxicology, Collegium; Pharmaceuticum, Poznan, Poland; (\*) corresponding author; (#) co-senior author

**A-0271 Hormone quantifications of in vitro-maintained prepubertal testicular tissue collected for fertility preservation**

Femke Hartevelde<sup>1</sup>, João Pedro Alves-Lopes<sup>1</sup>, Yanhua Cui<sup>1</sup>, Magdalena Kurek<sup>1</sup>, Halima Albalushi<sup>1,2</sup>, Olle Söder<sup>1</sup>, Ragnar Bjarnason<sup>3,4</sup>, Patrik Romerius<sup>5</sup>, Mikael Sundin<sup>6,7</sup>, Ulrika Norén Nyström<sup>8</sup>, Cecilia Langenskiöld<sup>9</sup>, Hartmut Vogt<sup>10</sup>, Lars Henningsohn<sup>11</sup>, Per Frisk<sup>12</sup>, Kaisa Vepsäläinen<sup>13</sup>, Rod T. Mitchell<sup>14,15</sup>, Cecilia Petersen<sup>1</sup>, Konstantin Svechnikov<sup>1</sup>, Anu Haavisto<sup>1</sup>(16)(17), Kirsi Jahnukainen<sup>1</sup>(18), Jan-Bernd Stukenborg<sup>1</sup>  
<sup>1</sup> NORDFERTIL Research Lab Stockholm, Childhood Cancer Research Unit, Department of Women's and Children's Health, Karolinska Institutet, and Karolinska University Hospital, Solna, Sweden; <sup>2</sup> Sultan Qaboos University, College of Medicine and Health Sciences, Muscat, Oman; <sup>3</sup> Children's Medical Center, Landspítali University Hospital, Reykjavik, Iceland; <sup>4</sup> Department of Paediatrics Faculty of Medicine, University of Iceland, Reykjavik, Iceland; <sup>5</sup> Department of Paediatric Oncology and Haematology, Clinical Sciences, Lund University, Barn- och Ungdomssjukhuset Lund, Skånes Universitetssjukhus, Lund, Sweden; <sup>6</sup> Division of Paediatrics, Department of Clinical Science, Intervention and Technology, Karolinska Institutet, Huddinge, Sweden; <sup>7</sup> Pediatric Blood Disorders, Immunodeficiency and Stem Cell Transplantation unit, Astrid Lindgren Children's Hospital, Karolinska University Hospital, Huddinge, Sweden; <sup>8</sup> Division of Paediatrics, Department of Clinical Science, Umeå University, Umeå, Sweden; <sup>9</sup> Department of Paediatric Oncology, The Queen Silvia Children's Hospital, Gothenburg, Sweden; <sup>10</sup> Crown Princess Victoria Children's Hospital, and Division of Children's and Women's Health, Department of Biomedical and Clinical Sciences, Linköping University, Linköping, Sweden; <sup>11</sup> Division of Urology, Institution for Clinical Science Intervention and Technology, Karolinska Institutet, Huddinge, Sweden; <sup>12</sup> Pediatric Hematology & Oncology Children's University Hospital Uppsala, Sweden; <sup>13</sup> Department of Paediatrics, Kuopio University Hospital, Kuopio, Finland; <sup>14</sup> Centre for Reproductive Health, Institute for Regeneration and Repair, The University of Edinburgh, Edinburgh, UK; <sup>15</sup> Edinburgh Royal Hospital for Children and Young People, Edinburgh, UK; (16) Department of Psychology and Logopedics, University of Helsinki, Helsinki, Finland; (17) Faculty of Education and Welfare Studies, Åbo Akademi University, Turku, Finland; (18) New Children's Hospital, Paediatric Research Centre, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

**A-0075 X-linked BCOR mutation causes human Sertoli cell-only syndrome**

Xinyu Liu, Zili Li, Honggang Li

Institute of Reproductive Health/Center of Reproductive Medicine, Tongji Medical College, Huazhong University of Science and Technology, Wuhan 430030, China

**A-0092 Risk of priapism after dynamic penile doppler ultrasound: the experience in a cohort of patients referring to Padova's Andrology Unit**

Raffaele Scafa, Andrea Graziani, Nicola Caretta, Pierfrancesco Palego, Alberto Ferlin

Unit of Andrology and Reproductive Medicine, University Hospital of Padova, Padua, Italy

**A-0117 Semen viscosity evaluation using the capillary technique**

Bogna Sobkiewicz<sup>1</sup>, Jolanta Słowikowska-Hilczer<sup>1,2</sup>, Renata Walczak-Jędrzejowska<sup>1,2</sup>, Anna Suchodolska<sup>2</sup>, Katarzyna Marchlewska<sup>1,2</sup>

<sup>1</sup> Fertility Clinic Salve Medica, Lodz, Poland; <sup>2</sup> Department of Andrology and Reproductive Endocrinology, Medical University of Lodz, Lodz, Poland

**A-0161 Acute Orchitis Revisited: Deciphering Viral Etiology, Diagnostics, Clinical Course and Impact on Fertility**

Adrian Pilatz<sup>1</sup>, Borros Arneith<sup>2</sup>, Rolf Kaiser<sup>3</sup>, Eva Heger<sup>3</sup>, Martin Pirkl<sup>3</sup>, Sindy Böttcher<sup>4</sup>, Moritz Fritzenwanker<sup>5</sup>, Harald Renz<sup>2</sup>, Annette Mankertz<sup>6</sup>, Florian Wagenlehner<sup>1</sup>, Hans-Christian Schuppe<sup>1</sup>

<sup>1</sup> Dept. of Urology, Pediatric Urology and Andrology & Hessian Centre for Reproductive Medicine, Justus Liebig University, Giessen, Germany; <sup>2</sup> Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics, Justus Liebig University, Giessen, Germany; <sup>3</sup> Institute of Virology, University of Cologne, Cologne, Germany; <sup>4</sup> National Reference Centre for Poliomyelitis and Enteroviruses, Robert Koch-Institute, Berlin, Germany; <sup>5</sup> Institute for Medical Microbiology, Justus Liebig University, Giessen, Germany; <sup>6</sup> National Reference Centre Measles, Mumps, Rubella, Robert Koch-Institute, Berlin, Germany

**A-0164 A new approach to the assessment of erectile dysfunction based on vasomotion monitored by the Flow Mediated Skin Fluorescence (FMSF) technique**

Jolanta Słowikowska-Hilczer<sup>1</sup>, Renata Walczak-Jędrzejowska<sup>1</sup>, Daria Adamczewska<sup>1</sup>, Piotr Byczkiewicz<sup>1</sup>, Katarzyna Marchlewska<sup>1</sup>, Joanna Katarzynska<sup>2</sup>, Jerzy Gebicki<sup>2,3</sup>

<sup>1</sup> Department of Andrology and Reproductive Endocrinology, Medical University of Lodz, Lodz, Poland; <sup>2</sup> Angionica Ltd., Lodz, Poland; <sup>3</sup> Institute of Applied Radiation Chemistry, Lodz University of Technology, Lodz, Poland

**A-0206 Identifying Seminiferous Tubules for Sperm Retrieval During Microdissection Testicular Sperm Extraction (M-TESE) Using Deep Learning**

Angel Elenkov<sup>1,2</sup>

<sup>1</sup> Department of Translational Medicine, Lund University, Malmö, Sweden; <sup>2</sup> Reproductive Medicine Centre, Skåne University Hospital, Malmö, Sweden

**A-0242 Machine Learning in Varicocele Grading: Shedding Light on Terminologic Dilemmas**

Mehmet Vehbi Kayra<sup>1</sup>, Ali Şahin<sup>2</sup>, Serdar Toksöz<sup>3</sup>, Mehmet Serindere<sup>4</sup>, Emre Altıntaş<sup>5</sup>, Halil Özer<sup>6</sup>, Murat Gül<sup>5</sup>

<sup>1</sup> Department of Urology, Baskent University, Adana Dr Turgut Noyan Application and Research Center, Adana, Turkey; <sup>2</sup> Selcuk University School of Medicine, Konya, Turkey; <sup>3</sup> Department of Urology, Sincan Education and Research Hospital, Ankara, Turkey; <sup>4</sup> Department of Radiology, Hatay Education and Research Hospital, Hatay, Turkey; <sup>5</sup> Department of Urology, Selcuk University School of Medicine, Konya, Turkey; <sup>6</sup> Department of Radiology, Selcuk University School of Medicine, Konya, Turkey

**A-0261 Sexual activity in young adult male childhood cancer survivors – A population-based study (the Fex-Can Study)**

Kristina Fagerkvist<sup>1,2</sup>, Claudia Lampic<sup>3</sup>, Kirsi Jahnukainen<sup>4,5</sup>, Anu Haavisto<sup>4,6</sup>, Lena Wettergren<sup>1,7</sup>

<sup>1</sup> Department of Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden; <sup>2</sup> Centre for Clinical Research Sörmland, Uppsala University, Eskilstuna, Sweden; <sup>3</sup> Department of Psychology, Umeå University, Umeå, Sweden; <sup>4</sup> NORDFERTIL research lab Stockholm, Childhood cancer research Unit, Department of Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden; <sup>5</sup> Division of Haematology-Oncology and Stem Cell Transplantation, Children's Hospital, University of Helsinki and Helsinki University Central Hospital, Helsinki, Finland; <sup>6</sup> Department of Psychology and Logopedics, University of Helsinki, Helsinki, Finland; <sup>7</sup> Department of Public Health and Caring Science, Uppsala University

**A-0264 To do or not to do – dilemmas of synchronous surgical testicular sperm extraction and ICSI in non-obstructive azoospermia**

Tamas Takacs<sup>1,2</sup>, Zsolt Kopa<sup>1,2</sup>

<sup>1</sup> Semmelweis University, Department of Urology, Centre of Andrology, Budapest, Hungary; <sup>2</sup> Semmelweis University, Department of Gynecology and Obstetrics, Centre of Assisted Reproduction, Budapest, Hungary

**A-0099 Impact of age and time of correction on the progression of testicular function in patients with grade 3 varicocele**

Nader Ibrahim<sup>1</sup>, Ahmad Majzoub<sup>1,2</sup>, Mohamed Arafa<sup>1,2,3</sup>, Khalid Al Kubaisi<sup>1</sup>, Kareim Khalafalla<sup>1</sup>, Ahmad Al Malki<sup>1,4</sup>, Haitham Elbardisi<sup>1,2,4</sup>

<sup>1</sup> Department of Urology, Hamad Medical Corporation, Doha, Qatar; <sup>2</sup> Weill Cornell Medicine-Qatar, Doha, Qatar; <sup>3</sup> Department of Andrology, Cairo University, Cairo, Egypt; <sup>4</sup> Department of Surgery, Qatar University, Doha, Qatar

**A-0215 Testicular transcriptome analysis reveals different molecular phenotypes in non-obstructive azoospermia**

Viola Bonini<sup>1</sup>, Ginevra Farnetani<sup>1</sup>, Antoni Riera-Escamilla<sup>2</sup>, Giuseppe Defazio<sup>1</sup>, Csilla Krausz<sup>1</sup>

<sup>1</sup> Experimental and Clinical Biomedical Science, University of Florence, Florence, Italy; <sup>2</sup> Andrology Dept., Fundació Puigvert, Universitat Autònoma de Barcelona, Institut de Investigacions Biomèdiques Sant Pau (IIB-Sant Pau) Barcelona, Spain

**A-0267 Increased risk of congenital anomalies following paternal use of mycophenolic acid – a Swedish nationwide register study**

Peter Zareń<sup>1,2</sup>, Angel Elenkov<sup>1,2</sup>, Yvonne Lundberg Giwercman<sup>1</sup>, Aleksander Giwercman<sup>1,2</sup>

<sup>1</sup> Lund University, Department of Translational Medicine, Malmö, Sweden; <sup>2</sup> Reproductive Medicine Centre, Skåne University Hospital, Malmö, Sweden

**A-0124 Zinner syndrome- an important differential diagnosis for urologists**

Aurelie Schirmann<sup>1</sup>, Chloe Mount<sup>1</sup>, David Ralph<sup>1</sup>, Conrad Von Stempel<sup>2</sup>, Philippa Sangster<sup>1</sup>

<sup>1</sup> University College London Hospital, UK; <sup>2</sup> Royal Free London Foundation Trust, UK

**A-0145 A Case Series of Constitutional Small Penis in the Early Puberty: Should They be Treated?**

Seso Sulijaya Suyono<sup>1,2,3</sup>

<sup>1</sup> Duta Wacana Christian University Yogyakarta, Indonesia; <sup>2</sup> Sadewa IVF Centre Yogyakarta, Indonesia; <sup>3</sup> Gladiol IVF Magelang, Indonesia

**A-0084 Testicular tissue cryopreservation to preserve fertility in pre-pubertal patients**

Giulia Traini<sup>1,2</sup>, Lara Tamburrino<sup>2</sup>, Maria Emanuela Ragosta<sup>3</sup>, Linda Vignozzi<sup>1,2</sup>, Baldi Elisabetta<sup>2,3</sup>, Sara Marchiani<sup>1,2</sup>

<sup>1</sup> Dept of Experimental Clinical and Biomedical Sciences 'Mario Serio', University of Florence, Florence, Italy; <sup>2</sup> Andrology, Women's Endocrinology and Gender Incongruence Unit, Center for Prevention, Diagnosis and Treatment of Infertility, Careggi University Hospital, Florence, Italy; <sup>3</sup> Dept of Experimental and Clinical Medicine, University of Florence, Florence

**A-0087 Impaired spermatogenesis in colitis: The role of interferon- $\gamma$  mediated ferroptosis in sertoli cells by colitogenic CD4+ T cells**

Qunxiong Zeng<sup>1,2</sup>, Jinchuan Liu<sup>1,2</sup>, Chen Yang<sup>1</sup>, Minmin Lyu<sup>1</sup>, Cheuk-Lun Lee<sup>1,2</sup>, William Shu-Biu Yeung<sup>1,2</sup>, Philip C N Chiu<sup>1,2</sup>, Yong-Gang Duan<sup>1,2</sup>

<sup>1</sup> Shenzhen Key Laboratory of Fertility Regulation, Center of Assisted Reproduction and Embryology, the University of Hong Kong - Shenzhen Hospital, Shenzhen, China; <sup>2</sup> Department of Obstetrics and Gynecology, the University of Hong Kong, Pokfulam Road, Hong Kong, China

**A-0094 Assessment of sperm genomic integrity and oxidation–reduction potential in semen with particular consideration of infertile men**

Tomasz Machalowski<sup>1,2</sup>, Kamil Gill<sup>1</sup>, Patryk Harasny<sup>1,3</sup>, Marta Grabowska<sup>1</sup>, Małgorzata Piasecka<sup>1</sup>

<sup>1</sup> Department of Histology and Developmental Biology, Faculty of Health Sciences, Pomeranian Medical University, Szczecin, Poland; <sup>2</sup> Department of Perinatology, Obstetrics and Gynecology, Faculty of Medicine and Dentistry, Pomeranian Medical University, Police, Poland; <sup>3</sup> Department of Urology and Urological Oncology, Faculty of Medicine and Dentistry, Pomeranian Medical University in Szczecin, Szczecin, Poland

**A-0096 Targeting androgen receptor degradation in Spinal and Bulbar Muscular Atrophy through PROteolysis TARgeting Chimeras: Differential degradation pattern of AF-2 domain binder-based compounds**

Maria Giovanna Lupo<sup>1</sup>, Giorgia Marodin<sup>1</sup>, Marco Verona<sup>2</sup>, Giovanni Marzaro<sup>2</sup>, Maria Pennuto<sup>3</sup>, Nicola Ferri<sup>1</sup>, Alberto Ferlin<sup>1</sup>, Luca De Toni<sup>1</sup>

<sup>1</sup> University of Padova, Department of Medicine, Padova, Italy; <sup>2</sup> University of Padova, Department of Pharmaceutical Sciences, Padova, Italy; <sup>3</sup> University of Padova, Department of Biomedical Sciences, Padova, Italy

**A-0160 AZF deletion analysis – from PCR to genome sequencing**

Johanna Steingröver<sup>1</sup>, Judit Horvath<sup>2</sup>, Christian Ruckert<sup>2</sup>, Frank Tüttelmann<sup>1,2</sup>

<sup>1</sup> Centre of Medical Genetics, Institute of Reproductive Genetics, University of Münster, Münster, Germany; <sup>2</sup> Centre of Medical Genetics, Department of Medical Genetics, University Hospital Münster, Münster, Germany

**A-0166 Immune cells in the fetal human testis – macrophages pave the way for cord formation during 2nd trimester**

Samira Hosseini<sup>1,2</sup>, Davor Jezek<sup>3(\*)</sup>, Marina Kos<sup>4</sup>, Benedict Nathaniel<sup>1</sup>, Ewa Rajpert-De Meyts<sup>5(\*)</sup>, Mark P. Hedger<sup>1,2</sup>, Hans-Christian Schuppe<sup>6(\*)</sup>, Kate L. Loveland<sup>1,2</sup>, Daniela Fietz<sup>7(\*)</sup>

<sup>1</sup> Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia; <sup>2</sup> Dept. of Molecular and Translational Sciences, Monash University, Clayton, VIC, Australia; <sup>3</sup> Dept. of Histology and Embryology, School of Medicine, University of Zagreb, Croatia; <sup>4</sup> Dept. of Pathology, School of Medicine, University of Zagreb, Croatia; <sup>5</sup> Dept. of Growth and Reproduction, Rigshospitalet, University of Copenhagen, Denmark; <sup>6</sup> Dept. of Urology, Pediatric Urology and Andrology, Justus Liebig University, Giessen, Germany; <sup>7</sup> Institute of Veterinary Anatomy, Histology and Embryology, Justus Liebig University, Giessen, Germany

**A-0184 Comprehensive biophysical characterisation of the human testis to increase mimicry of preclinical models**

I Andersson<sup>1</sup>, O Mahon<sup>1</sup>, N Ghanami Gashti<sup>1</sup>, J Hess<sup>2</sup>, I Cullen<sup>3</sup>, R Mitchell<sup>4</sup>, JB Stukenborg<sup>5</sup>, E Cunnane<sup>1</sup>

<sup>1</sup> Biomaterials Cluster, Bernal Institute, University of Limerick, Limerick, Ireland; <sup>2</sup> Klinik und Poliklinik für Urologie, Uroonkologie und Kinderurologie, Universitätsklinikum Essen, Essen, Deutschland; <sup>3</sup> Blackrock Health, Blackrock Clinic Dublin, Ireland; <sup>4</sup> Royal Hospital for Children and Young People, Edinburgh, United Kingdom; <sup>5</sup> NORDFERTIL Research Lab Stockholm, Childhood Cancer Research Unit, Department of Women's and Children's Health, Karolinska Institutet, Karolinska University Hospital, Solna, Sweden

**A-0219 Specification of human primordial germ cell-like cells with enhanced progression capability from human induced pluripotent stem cells**

Muriel Gisa Heitsch<sup>1</sup>, Kirsi Jahnukainen<sup>1,2</sup>, Jan-Bernd Stukenborg<sup>1</sup>, João Pedro Alves-Lopes<sup>1</sup>

<sup>1</sup> NORDFERTIL Research Lab Stockholm, Childhood Cancer Research, Department of Women's and Children's Health, Karolinska Institutet and Karolinska University Hospital, Stockholm, Sweden; <sup>2</sup> New Children's Hospital, Paediatric Research Centre, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

**A-0259 Biochemical Tanner staging with INSL3**

Ravinder Anand-Ivell, Richard Ivell

School of Biosciences, University of Nottingham, UK

**A-0100 Early vs delayed insertion of penile prosthesis in patients with refractory priapism: a systematic review and meta-analysis**

Mohamed Elmarasi<sup>1</sup>, Ahmad Alsaedi<sup>2</sup>, Ibrahim Elmakaty<sup>1</sup>, Basel Elsayed<sup>1</sup>, Ibrahim A. Khalil<sup>2</sup>, Maya Aldeeb<sup>3</sup>, Kareim Khalafalla<sup>2</sup>, Khalid Al Kubaisi<sup>2</sup>, Mohamed Arafa<sup>2</sup>, Ahmad Majzoub<sup>2</sup>

<sup>1</sup> College of Medicine, Qatar University, Doha, Qatar; <sup>2</sup> Department of Urology, Hamad Medical Corporation, Doha, Qatar; <sup>3</sup> Department of Medical Education, Family Medicine Residency Program, Hamad Medical Corporation, Doha, Qatar

**A-0216 Whole genome sequencing in non-obstructive azoospermia: identification of a disruptive variant in the promoter of dominant candidate gene LEO1**

Ginevra Farnetani<sup>1</sup>, Antoni Riera-Escamilla<sup>2</sup>, Matilde Spinelli<sup>2</sup>, Viola Bonini<sup>1</sup>, Chiara Abrardo<sup>1</sup>, Miguel Xavier<sup>3</sup>, Joris Veltman<sup>3</sup>, Csilla Krausz<sup>1</sup>  
<sup>1</sup> Experimental and Clinical Biomedical Science, University of Florence, Florence, Italy; <sup>2</sup> Andrology Dept., Fundació Puigvert, Universitat Autònoma de Barcelona, Instituto de Investigaciones Biomédicas Sant Pau (IIB-Sant Pau), Barcelona, Spain; <sup>3</sup> Bioscience Institute, Faculty of Medical Sciences, Newcastle University, Newcastle-Upon-Tyne, United Kingdom

**S17 ANDRONET: European andrology network - research coordination, professional education and public awareness in Andrology (CA20119)**

Thursday, 05 September 2024 | 13:15 - 14:45 CEST (GMT+1) | Nobelterrassen

Chairs: Rafael Oliva, Csilla Krausz

Presentations by Andronet leaders or co-leaders (open to all ECA2024 participants):

13:15-13:25: ANDRONET: progress and plans. Rafael Oliva (Andronet Action Chair)

13:25-13:30 Research coordination. Frank Tüttelmann (Andronet WG1 leader).

13:30-13:35 Professional education. Leen Antonio (Andronet WG2 leader)

13:35-13:40 Public Awareness. Andrea Sansone (Andronet WG3 leader)

13:40-13:45 Science Communication. Sandra Laurentino (Science Communication Coordinator)

13:45-13:50 Grant Awarding Coordinator. Davor Jezek (Grant Awarding Coordinator)

13:50-14:10 General discussion. Csilla Krausz (Andronet Action Vice-Chair)

14:10-14:45. Andronet Management Committee (MC) hybrid (onsite-online) session.

Moderated by Rafael Oliva. Session intended mainly for Andronet members.

14:10-14:15 Work and Budget Plan (WBP) for the final grant period

14:15-14:20 Plans for Andronet sustainability

14:20-14:45 General discussion and input from MC members.

Andronet COST Action CA20119 is supported by COST (European Cooperation in Science and Technology, [www.cost.eu](http://www.cost.eu)).

COST (European Cooperation in Science and Technology) is a funding agency for research and innovation networks. Our Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation

**S05 SYMPOSIUM 05: Fertility preservation in young oncological patients**

Thursday, 05 September 2024 | 13:30 - 15:00 CEST (GMT+1) | Mälarsalen

Chairs: Jan-Bernd Stukenborg, Stefan Schlatt

**A-0019 Who should be considered for testicular biopsy for fertility preservation?**

Kirsi Jahnukainen

Children's Hospital, University of Helsinki and Helsinki University Hospital, Helsinki, Finland and NORDFERTIL Research Lab Stockholm, Karolinska Institutet and University Hospital, Stockholm, Sweden

**A-0020 Gonadotoxic reagents and their mechanisms of action**

Michael P Rimmer

Centre for Reproductive Health, University of Edinburgh, UK

**A-0240 Evaluation of spermatogonial cell populations in male childhood cancer patients**

Hajar Ali Mohammed Ba Omar<sup>1</sup>, Justine Stevens<sup>1</sup>, Yanhua Cui<sup>1</sup>, Femke Harteveld<sup>1</sup>, Yifan Yang<sup>1</sup>, Jingtao Guo<sup>2</sup>, Kirsi Jahnukainen<sup>1,3</sup>, Jan-Bernd Stukenborg<sup>1</sup>

<sup>1</sup> NORDFERTIL Research Lab Stockholm, Department of Women's and Children's Health, Karolinska Institutet, and Karolinska University Hospital, Stockholm, Sweden; <sup>2</sup> State Key Laboratory of Stem Cell and Reproductive Biology, Institute of Zoology, Chinese Academy of Sciences & Institute of Stem Cell and Regeneration, Chinese Academy of Sciences, Beijing, China; <sup>3</sup> New Children's Hospital, Paediatric Research Centre, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

**A-0133 Experience and andrological health follow-up of (pre)pubertal males who have undergone testicular tissue cryopreservation**

Romane Levade<sup>1</sup>, Nathalie Rives<sup>1</sup>, Agnès Liard<sup>2</sup>, Lucie Grynberg<sup>2</sup>, Pascale Schneider<sup>3</sup>, Ludovic Dumont<sup>1</sup>, Christine Rondanino<sup>1</sup>, Aurélie Feraille<sup>1\*</sup>

<sup>1</sup> Univ Rouen Normandie, Inserm U1239, NorDIC, team "Adrenal and Gonadal Pathophysiology", Rouen University Hospital, Biology of Reproduction-CECOS Laboratory, Rouen, France; <sup>2</sup> Univ Rouen Normandie, Rouen University Hospital, Department of Child Surgery, Rouen, France; <sup>3</sup> Univ Rouen Normandie, Rouen University Hospital, Department of Pediatric Hematology and Oncology, Rouen, France, \*Corresponding author. Biology of Reproduction-CECOS Laboratory, Inserm U1239, NorDIC, team "Adrenal and Gonadal Pathophysiology", Rouen University Hospital, 1 rue de Germont, F-76031 Rouen, France. e-mail: [a.rives-feraille@chu-rouen.fr](mailto:a.rives-feraille@chu-rouen.fr)

**A-0211 Testicular endocrine and reproductive function and sexual health in haematological cancer survivors undergoing chemo-, radiotherapy and bone marrow transplantation: a single-centre, 15 year prospective longitudinal study**

Francesco Carlomagno, Nicolò Francesco D'Addario, Chiara Tarantino, Carla Pandozzi, Lorenzo Cerroni, Carlotta Pozza, Daniele Gianfrilli, Andrea M. Isidori

Department of Experimental Medicine, 'Sapienza' University of Rome, Italy

## **S02 SYMPOSIUM 02: Sperm DNA fragmentation**

Thursday, 05 September 2024 | 13:30 - 15:00 CEST (GMT+1) | Magasinet

Chairs: Marij Dinkelman-Smit, Aleksander Giwercman

**A-0016 Sperm DNA fragmentation as an indicative male fertility biomarker**

Jordi Ribas-Maynou

Unit of Cell Biology and Medical Genetics, Department of Cell Biology, Physiology and Immunology, Autonomous University of Barcelona, Spain

**A-0017 Sperm DNA fragmentation and clinical outcomes**

J.C. Kirkman-Brown

UK

**A-0236 Is sperm DNA fragmentation Index associated with markers of impaired insulin sensitivity? Data from ReproUnion Biobank and Infertility Cohort (RUBIC)**

Berk Hazir<sup>1</sup>, Angel Elenkov<sup>1,2</sup>, Lærke Priskorn<sup>3</sup>, Niels Jørgensen<sup>3</sup>, Aleksander Giwercman<sup>1,2</sup>

<sup>1</sup> Department of Translational Medicine, Lund University, Sweden; <sup>2</sup> Reproductive Medicine Centre, Skåne University Hospital, Malmö, Sweden; <sup>3</sup> Department of Growth and Reproduction, Copenhagen University Hospital - Rigshospitalet, Copenhagen, Denmark

**A-0018 Pro-Contra Debate: Are we ready for introducing sperm DNA fragmentation tests in routine clinical work?**

Aleksander Giwercman<sup>1</sup>, Marij Dinkelman-Smit<sup>2</sup>

<sup>1</sup> Department of Translational Medicine, Lund University, Malmö, Reproductive Medicine Centre, Skane University Hospital, Malmö, Sweden; <sup>2</sup> Department of Urology, Erasmus University Medical Center, Rotterdam, The Netherlands

## **PL2 Plenary session 2**

Thursday, 05 September 2024 | 15:05 - 15:40 CEST (GMT+1) | Mälarsalen

Chair: Csilla Krausz

**A-0021 EAA-ASA LECTURE: Rhythms in testosterone, sleep and life – impacts on health**

Peter Y. Liu

Divisions of Endocrinology and Genomic Outcomes, David Geffen School of Medicine at UCLA, and Genomics Institute, The Lundquist Institute at Harbor- UCLA Medical Center, Torrance CA, USA

## **S06 SYMPOSIUM 06: Genetics of male germ cells - implications beyond the testes**

Thursday, 05 September 2024 | 16:10 - 17:40 CEST (GMT+1) | Mälarsalen

Chairs: Csilla Krausz, Frank Tüttelmann

**A-0030 Mutational landscape and clonal dynamics in male germline cells**

Rahelah Rahbari

Wellcome Sanger Institute, Cancer Ageing and Somatic Mutation, Cambridge, UK

**A-0031 Ancient molecular origins of male infertility**

Paulo Navarro-Costa

EvoReproMed Lab, Faculty of Medicine, University of Lisbon, Portugal

**A-0032 Morphological sperm abnormalities: genetic and clinical aspects**

Pierre F. Ray

University Grenoble Alpes, INSERM U1209, CNRS UMR 5309, Institute for Advanced Biosciences, Team Genetics Epigenetics and Therapies of Infertility, Grenoble, France

**A-0175 Frequency and spectrum of mutations in human sperm measured using duplex sequencing correlate with trio-based de novo mutation analyses**

Jonatan Axelsson<sup>1,2,3</sup>, Danielle LeBlanc<sup>4</sup>, Habiballah Shojaeisaadi<sup>4</sup>, Matthew J Meier<sup>4</sup>, Devon M. Fitzgerald<sup>5</sup>, Daniela Nachmanson<sup>5</sup>, Jedidiah Carlson<sup>5</sup>, Alexandra Golubeva<sup>5</sup>, Jake Higgins<sup>5</sup>, Thomas Smith<sup>5</sup>, Fang Yin Lo<sup>5</sup>, J Richard Pilsner<sup>6</sup>, Andrew Williams<sup>4</sup>, Jesse Salk<sup>5</sup>, Francesco Marchetti<sup>4</sup>, Carole Yauk<sup>1</sup>

<sup>1</sup> Department of Biology, University of Ottawa, Ottawa, ON, Canada; <sup>2</sup> Reproductive Medicine Centre, Skåne University Hospital Malmö, and



Department; of Translational Medicine and Department of Laboratory Medicine, Lund University, Sweden; <sup>3</sup> Department of Laboratory Medicine, Lund University, Sweden; <sup>4</sup> Environmental Health Science and Research Bureau, Health Canada; <sup>5</sup> TwinStrand Biosciences, Inc., Seattle, WA, USA; <sup>6</sup> Department of Obstetrics & Gynecology, Wayne State University, Detroit, MI, USA

## S08 SYMPOSIUM 08: Transgender and gender diverse persons

Thursday, 05 September 2024 | 16:10 - 17:40 CEST (GMT+1) | Nobelterrassen

Chairs: Francesco Lombardo, Jorma Toppari

### A-0033 The SOC 8 - What's new compared to the previous version?

Alessandra Fisher

Florence, Italy

### A-0034 Fertility preservation in transgender and gender diverse people assigned male at birth (AMAB)

Bettina Scheffer

Centre of Reproductive Medicine and Andrology, Department of Clinical and Surgical Andrology, University Clinic Münster, Germany

### A-0035 Management of urologic complications after genital gender-affirming surgery

Gennaro Selvaggi <sup>1</sup>, Teresa Ekerhult <sup>2</sup>, Alexandru Jula <sup>1</sup>

<sup>1</sup> Department of Plastic Surgery, Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Sahlgrenska University Hospital, Gothenburg, Sweden; <sup>2</sup> Department of Urology, Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Sahlgrenska University Hospital, Gothenburg, Sweden

### A-0139 Impact of hormonal treatment in transgender persons assigned male at birth on testicular regression

Antonio Barbato <sup>1</sup>, Joachim Wistuba <sup>2</sup>, Nina Neuhaus <sup>2</sup>, Reinhild Sandhowe <sup>2</sup>, Jochen Hess <sup>4</sup>, Sabine Kliesch <sup>3</sup>, Stefan Schlatt <sup>2</sup>, Florian Schneider <sup>3</sup>

<sup>1</sup> Department of clinical medicine and surgery, section of endocrinology, diabetology, andrology and nutrition, unit of andrology and medicine of reproductive, sexuality and gender affirmation, university Federico II of Naples, Naples, Italy; <sup>2</sup> Centre of Reproductive Medicine and Andrology, Institute of Reproductive- and Regenerative Biology, Albert-Schweitzer-Campus 1, Building D11, Muenster, Germany; <sup>3</sup> Centre of Reproductive Medicine and Andrology, Department of Clinical and Surgical Andrology, Albert-Schweitzer-Campus 1, Building D11, Muenster, Germany; <sup>4</sup> University Hospital Essen, Department of Urology, Essen, Germany

### A-0066 Partial rejuvenation of the spermatogonial stem cell niche after gender-affirming hormone therapy in trans women

Emily Delgouffe <sup>1</sup>, Samuel Madureira Silva <sup>1</sup>, Frédéric Chalmel <sup>2</sup>, Wilfried Cools <sup>3</sup>, Camille Raets <sup>3</sup>, Kelly Tilleman <sup>4</sup>, Guy T'Sjoen <sup>5</sup>, Yoni Baert <sup>1,6</sup>, Ellen Goossens <sup>1</sup>

<sup>1</sup> Biology of the Testis (BITE) laboratory, Genetics, reproduction and development (GRAD) research group, Vrije Universiteit Brussel, Brussels, Belgium; <sup>2</sup> Inserm, EHESP, Institut de Recherche en Santé, Environnement et Travail (IRSET) Université de Rennes, Rennes, France; <sup>3</sup> Core facility, Support for Quantitative and Qualitative Research (SQUARE) Vrije Universiteit Brussel, Brussels, Belgium; <sup>4</sup> Department for Reproductive Medicine, Ghent University Hospital, Ghent, Belgium; <sup>5</sup> Department of Endocrinology and Center for Sexology and Gender, Ghent University Hospital, Ghent, Belgium; <sup>6</sup> In Vitro Toxicology and Dermato-Cosmetology (IVTD) Vrije Universiteit Brussel, Brussels, Belgium

## S03 SYMPOSIUM 03: ESAU-EAA Symposium: The infertile male in front of the andrology laboratory, the endocrinologist, and the urological surgeon

Thursday, 05 September 2024 | 16:10 - 17:40 CEST (GMT+1) | Magasinet

Chairs: Hermann Behre, Nikolaos Sofikitis

### A-0022 How to change a negative for haploid cells primary -mTESE outcome to a positive for haploid cells salvage -mTESE result?

#### Administration of pharmaceutical agents

Suks Minhas

Department of Urology, Charing Cross Hospital, London, UK

### A-0024 Left varicocele still an enigma - Looking at the hypothalamo-pituitary-testicular axis

Aleksander Giwercman, Angel Elenkov

Department of Translational Medicine, Lund University, Malmö; Reproductive Medicine Centre, Skane University Hospital, Malmö, Sweden

### A-0025 Left varicocele still an enigma - The surgical approach

Fotios Dimitriadis

Department of Urology, Faculty of Medicine, School of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece

### A-0026 Left varicocele still an enigma - Varicocelectomy or ART in men with varicoceles and severe oligo-asthenoteratozoospermia?

Sabine Kliesch

Centre of Reproductive Medicine and Andrology, Department of Clinical and Surgical Andrology, Münster, Germany

### A-0027 Classification of testicular sperm quality

Marij Dinkelman-Smit

Erasmus MC University Medical Center, Rotterdam, The Netherlands

**A-0028 The Recent Role of Artificial Intelligence in Andrology**

Z. Kopa<sup>1</sup>, A. Szabó<sup>1</sup>, J. Bokor<sup>2</sup>

<sup>1</sup> Andrology Centre, Department of Urology, Semmelweis University, Budapest, Hungary; <sup>2</sup> University of Technology, Budapest, Hungary

**A-0029 Xenogeneic germ cell transplantation techniques as a method to treat azoospermia with pre-meiotic spermatogenic block: Potential and drawbacks**

Nikolaos Sofikitis

Department of Urology, Ioannina University School of Medicine, Ioannina, Greece and Department of Urology Tottori University School of medicine, Yonago, Japan

**S18 EAA General Assembly (EAA members only)**

Thursday, 05 September 2024 | 17:45 - 19:10 CEST (GMT+1) | Mälarsalen

**PL3 Plenary session 3: Impact of evolution and genetics on male infertility**

Friday, 06 September 2024 | 09:00 - 10:00 CEST (GMT+1) | Mälarsalen

Chairs: Maris Laan, Paulo Navarro-Costa

**A-0036 From nature to the clinic: what can evolution tell us about male fertility?**

Steven A. Ramm

UMR 6553 Ecobio - Ecosystèmes, Biodiversité, Evolution, Université de Rennes, France

**A-0037 Recent advances in genetic aspects of male infertility**

Joris Veltman

Biosciences Institute, Faculty of Medical Sciences, Newcastle University, United Kingdom

**S09 SYMPOSIUM 09: EAA meets ESHRE-SIGA – with focus on fertility preservation**

Friday, 06 September 2024 | 10:30 - 12:00 CEST (GMT+1) | Mälarsalen

Chairs: Stefan Schlatt, Jan-Bernd Stukenborg

**A-0038 Fertility preservation for patients with cancer: The French recommendations**

Nathalie Rives

Normandie Univ, UNIROUEN, Inserm U1239, NorDIC, team "Adrenal and Gonadal Pathophysiology", Rouen University Hospital, Biology of Reproduction-CECOS Laboratory, 76031 Rouen, France

**A-0039 Cryopreservation of pre-pubertal testis tissue**

Ellen Goossens

Biology of the Testis (BITE) laboratory, Genetics Reproduction and Development (GRAD) research group, Vrije Universiteit Brussel (VUB), Brussels, Belgium

**A-0040 Spermatogonia on ice and in vitro: Is it safe to freeze and culture human testicular stem cells?**

Callista L. Mulder

Erasmus MC, Epidemiological and Social Psychiatric Research Institute, Department of Psychiatry, University Medical Center, Rotterdam, The Netherlands

**A-0289 A defined hydrogel for murine testicular organoid generation**

Yanhua Cui<sup>1</sup>, Susana M Chuva de Sousa Lopes<sup>2</sup>, Jan-Bernd Stukenborg<sup>1</sup>

<sup>1</sup> NORDFERTIL Research Lab Stockholm, Childhood Cancer Research Unit, Department of Women's and Children's Health, Karolinska Institutet, and Karolinska University Hospital, Solna, Sweden; <sup>2</sup> Department of Anatomy and Embryology, Leiden University Medical Center, Building 2, Leiden, the Netherlands

**S11 SYMPOSIUM 11: Androgenetics**

Friday, 06 September 2024 | 10:30 - 12:00 CEST (GMT+1) | Nobelterrassen

Chairs: Csilla Krausz, Frank Tüttelmann

**A-0041 Sequencing of the human Y-chromosome – any surprises?**

Pille Hallast<sup>1</sup>, Peter Ebert<sup>2,3</sup>, Mark C Loftus<sup>4,5</sup>, Feyza Yilmaz<sup>1</sup>, Peter A Audano<sup>1</sup>, Glennis Logsdon<sup>6,7</sup>, David Porubsky<sup>6</sup>, Human Genome Structural Variation Consortium (HGSVC), Jan O Korbel<sup>8</sup>, Evan E Eichler<sup>6,9</sup>, Christine Beck<sup>1</sup>, Tobias Marschall<sup>2,10</sup>, Miriam K Konkel<sup>4,5</sup>, Charles

Lee<sup>1</sup>

<sup>1</sup> The Jackson Laboratory for Genomic Medicine, Farmington, CT, USA; <sup>2</sup> Core Unit Bioinformatics, Medical Faculty and University Hospital Düsseldorf, Heinrich Heine University, Düsseldorf, Germany; <sup>3</sup> Center for Digital Medicine, Heinrich Heine University, Düsseldorf, Germany; <sup>4</sup> Department of Genetics & Biochemistry, Clemson University, Clemson, SC, USA; <sup>5</sup> Center for Human Genetics, Clemson University, Greenwood, SC, USA; <sup>6</sup> University of Washington School of Medicine, Department of Genome Sciences, Seattle, WA, USA; <sup>7</sup> Department of Genetics, Epigenetics Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA; <sup>8</sup> European Molecular Biology Laboratory (EMBL) Genome Biology Unit, Heidelberg, Germany; <sup>9</sup> Howard Hughes Medical Institute, University of Washington, Seattle, WA, USA; <sup>10</sup> Institute for Medical Biometry and Bioinformatics, Medical Faculty and University Hospital Düsseldorf, Heinrich Heine University, Düsseldorf, Germany

**A-0042 Mosaic loss of chromosome Y (LOY) – why men live shorter lives?**

Lars A. Forsberg

Department of Immunology, Genetics and Pathology, Science for Life Laboratory, The Beijer Laboratory, Uppsala University, Sweden

**A-0182 Monogenic causes of cryptorchidism – analysis of known and novel candidate genes**

Anna-Grete Juchnewitsch<sup>1</sup>, Kristjan Pomm<sup>2</sup>, Kristiina Lillepea<sup>1</sup>, Avirup Dutta<sup>1</sup>, Erik Tamp<sup>3</sup>, Anu Valkna<sup>1</sup>, Stanislav Tjagur<sup>2</sup>, Viljo Kübarsepp<sup>4,5</sup>, Laura Kasak<sup>1</sup>, Margus Punab<sup>1,2,4</sup>, Maris Laan<sup>1</sup>

<sup>1</sup> Chair of Human Genetics, Institute of Biomedicine and Translational Medicine, University of Tartu, Tartu, Estonia; <sup>2</sup> Andrology Clinic, Tartu University Hospital, Tartu, Estonia; <sup>3</sup> Centre of Pathology, East Tallinn Central Hospital, Tallinn, Estonia; <sup>4</sup> Department of Surgery, Institute of Clinical Medicine, University of Tartu, Tartu, Estonia; <sup>5</sup> Department of Pediatric Surgery, Clinic of Surgery, Tartu University Hospital, Tartu, Estonia

**A-0074 Establishment of an effective in vitro system to discover novel genetic mutations causing Sertoli cell-only syndrome in human**

Xinyu Liu, Zili Li, Jieyi Zhao, Honggang Li

Institute of Reproductive Health/Center of Reproductive Medicine, Tongji Medical College, Huazhong University of Science and Technology, Wuhan 430030, China

**A-0214 Clinical validity and prognostic value of a virtual gene panel applied to patients with severe spermatogenic failure**

Antoni Riera-Escamilla<sup>1</sup>, Ginevra Farnetani<sup>2</sup>, Matilde Spinelli<sup>1</sup>, Chiara Abrardo<sup>2</sup>, Giuseppe Defazio<sup>2</sup>, Marc Pybus<sup>1</sup>, Matteo Vannucci<sup>2</sup>, Josvany Sánchez-Curbelo<sup>1</sup>, Elisabet Ars<sup>1</sup>, Eduard Ruiz-Castané<sup>1</sup>, Csilla Krausz<sup>2</sup>

<sup>1</sup> Andrology Dept., Fundació Puigvert, Universitat Autònoma de Barcelona, Institut de Investigacions Biomèdiques Sant Pau (IIB-Sant Pau), Barcelona, Spain; <sup>2</sup> Experimental and Clinical Biomedical Science, University of Florence, Florence, Italy

## S13 SYMPOSIUM 13: Metabolic aspects of andrology

Friday, 06 September 2024 | 10:30 - 12:00 CEST (GMT+1) | Magasinet

Chairs: Leen Antonio, Niels Jørgensen

**A-0050 Testicular function and cardiometabolic health: what an andrologist ought to know?**

Mario Maggi

Endocrinology Unit, University of Florence, Florence, Italy

**A-0044 Diabetes and pre-diabetes: is there a role for testosterone treatment?**

Jolijn Van Cauwenberghe

Department of Endocrinology, Diabetology & Metabolism, Antwerp University Hospital, University of Antwerp, Edegem, Belgium

**A-0210 Childhood-onset growth hormone deficiency is associated with impaired testicular development, altered steroidogenesis and reduced reproductive function during transition age: a multicentre, retrospective longitudinal study**

Francesco Carlomagno<sup>1</sup>, Marta Tenuta<sup>1</sup>, Chiara Tarantino<sup>1</sup>, Alessia Aureli<sup>2</sup>, Biagio Cangiano<sup>3</sup>, Matteo Spaziani<sup>1</sup>, Giulia Mirra<sup>2</sup>, Biagio Cangiano<sup>3</sup>, Franz Sesti<sup>1</sup>, Marco Bonomi<sup>3</sup>, Stefano Cianfarani<sup>2</sup>, Daniele Gianfrilli<sup>1</sup>, Csilla Krausz<sup>4</sup>, Andrea M. Isidori<sup>1</sup>

<sup>1</sup> Department of Experimental medicine, 'Sapienza' University of Rome, Italy; <sup>2</sup> Endocrinology and Diabetes Unit, Bambino Gesù Children's Hospital, IRCCS, Rome, Italy; <sup>3</sup> Istituto Auxologico Italiano, Milan, Italy; <sup>4</sup> Department of Experimental and Clinical Biomedical Sciences "Mario Serio", University of Florence, Italy

**A-0070 Activation of Farnesoid X receptor alleviates high-fat diet-induced the impairment of sperm parameters in mice**

Jin-Chuan Liu<sup>1,2</sup>, Qunxiong Zeng<sup>1,2</sup>, Chen Yang<sup>1</sup>, Minmin Lyu<sup>1</sup>, Qingqing Zhang<sup>1,2</sup>, Cheuk-Lun Lee<sup>1,2</sup>, William Shu-Biu Yeung<sup>1,2</sup>, Philip C N Chiu<sup>1,2</sup>, Yong-Gang Duan<sup>1</sup>

<sup>1</sup> The University of Hong Kong - Shenzhen Hospital, Shenzhen, China; <sup>2</sup> The University of Hong Kong, Hong Kong, China

## POST3 Poster Session Friday

Friday, 06 September 2024 | 12:00 - 13:30 CEST (GMT+1) | Mälarsalen

**A-0061 Unlocking AIRE's Role: Insights into Spermatogenesis Regulation**

Jana Petrusová, Dominik Filipp

Laboratory of Immunobiology, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague, Czech Republic

**A-0062 Long-term culture of human Sertoli cells from adult Klinefelter patients: a new tool to unravel Klinefelter physiopathology?**

Maria Grazia Giudice <sup>1,2</sup>, Christine Wyns <sup>1,2</sup>

Pôle de recherche en Physiologie de la Reproduction (REPR) Institut de Recherche Expérimentale et Clinique (IREC) Université Catholique de Louvain, Brussels, Belgium; <sup>1</sup> Department of Gynecology-Andrology, Cliniques Universitaires Saint-Luc, Brussels, Belgium; <sup>2</sup>

**A-0069 Developing preclinical models of human testis for restoring male fertility using primary cell sorting and ECM-derived hydrogels**

Nasrin Ghanami Gashti <sup>1,2</sup>, Olwyn R Mahon <sup>1,2</sup>, Jochen Hess <sup>3</sup>, Eoghan M Cunnane <sup>1,2</sup>

<sup>1</sup> Biomaterials Cluster, Bernal Institute, University of Limerick, Limerick, Ireland; <sup>2</sup> School of Engineering, University of Limerick, Limerick Ireland; <sup>3</sup> Department of Urology, University Hospital Essen, University Duisburg-Essen, Essen, Germany

**A-0077 The Time Factor: Exploring Circadian Rhythm Disruption and its Influence on Testicular Function**

Tatjana Kostic <sup>1</sup>, Dijana Travacic <sup>1</sup>, Maja Pavlovic <sup>2</sup>, Alisa Becin <sup>1</sup>, Andric Silvana <sup>1</sup>

<sup>1</sup> Faculty of Sciences, University of Novi Sad, Serbia; <sup>2</sup> Faculty of Sciences and Mathematics University of Pristina in Kosovska Mitrovica, Serbia

**A-0082 An integrative analysis of energy metabolism and proteomic landscape of sperm in asthenozoospermic patients: exploring the key proteins affecting energy metabolic phenotypes**

Ruizhi Xue <sup>1,2</sup>, Xiaoming Cao <sup>1</sup>, Xiaobin Yuan <sup>1</sup>, Xuting Xue <sup>1</sup>

<sup>1</sup> The First Hospital of Shanxi Medical University, Taiyuan, China; <sup>2</sup> Xijing Hospital of Air Force Military Medical University, Xi'an, China

**A-0106 Paramètres morphocinétiques et scores de qualité embryonnaire en PMA**

Meriam Ben Tekaya, Salima Daoud, Olfa Abdelkefi, Marwa Ben Amor, Tarak Rebai, Afifa Sellami

Service de Biologie de la Reproduction CHU Hedi Chaker Sfax, Tunisia

**A-0111 Transient Receptor Potential Vanilloid 1 mediates cell response to thermal stress in a in vitro model of Sertoli cell line**

Francesca Mancuso <sup>1</sup>, Iva Sabovic <sup>2</sup>, Sara De Martin <sup>3</sup>, Giovanni Luca <sup>1</sup>, Carlo Foresta <sup>2</sup>, Alberto Ferlin <sup>2</sup>, Luca De Toni <sup>2</sup>

<sup>1</sup> University of Perugia, Perugia, Italy; <sup>2</sup> Department of Medicine, University of Padova, Padova, Italy; <sup>3</sup> Department of Pharmacological Sciences, University of Padova, Padova, Italy

**A-0119 Gut microbiota—derived short chain fatty acids (SCFAs), serum lipid parameters and tissue immunoexpression of cytokines in men with BPH**

Weronika Ratajczak <sup>1</sup>, Maria Laszczyńska <sup>2</sup>, Anna Lubkowska <sup>1</sup>, Olimpia Sipak <sup>3</sup>

<sup>1</sup> Department of Functional Diagnostics and Physical Medicine, Pomeranian Medical University, Szczecin, Poland; <sup>2</sup> State University of Applied Sciences in Koszalin, Department of Nursing, Szczecin, Poland; <sup>3</sup> Department of Obstetrics and Pathology of Pregnancy, Pomeranian Medical University, Szczecin, Poland

**A-0120 In vitro exposure of human spermatozoa to immune checkpoint inhibitors Ipilimumab, Nivolumab, and Pembrolizumab associates with altered motility and no likely involvement of cell apoptosis**

Ilaria Cosci <sup>1</sup>, Marina Coppola <sup>2</sup>, Nicoletta Rigamonti <sup>2</sup>, Andrea Di Nisio <sup>1</sup>, Loris Bertazza <sup>1</sup>, Claudia Maria Radu <sup>1</sup>, Luca De Toni <sup>1</sup>, Alberto Ferlin <sup>1</sup>

<sup>1</sup> University of Padova, Department of Medicine, Padova Italy; <sup>2</sup> Istituto Oncologico Veneto IOV, Padova, Italy

**A-0125 Raman Chemical Imaging and Multivariate Data Analysis for Chemical Characterization of Human Testicular Tissue**

Fatima Batool, Joanna Allardyce, Eoghan M Cunnane

University of Limerick, Ireland

**A-0128 Considering the effects of Shear Stress and Pressure on Testicular Cell behaviour in preclinical models for restoring male fertility**

Dónal O Mahoney, Eoghan M Cunnane

University of Limerick, Ireland

**A-0129 Developing 3D cell-laden testicular hydrogel microspheres on microfluidic chip**

Jishnu Padacherri Vethil, Olwyn Mahon, Eoghan M Cunnane

School of Engineering, Bernal Institute, University of Limerick, Ireland

**A-0130 Elucidating the role of Androgens in Bladder cancer through the utilisation of a tissue and patient-specific 3D tumour model for personalised medicine approaches**

Olwyn R Mahon <sup>1,2,3,4</sup>, Donal L O'Mahoney <sup>1</sup>, Subhasis K Giri <sup>5</sup>, Niamh Peters <sup>5</sup>, Jim P McCarron <sup>6</sup>, Eoghan M Cunnane <sup>1,2</sup>

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**A-0144 Testicular histopathology and its association to semen quality and serum concentrations of reproductive hormones in 1400 patients**

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**A-0146 Imatinib decreases germ cell survival and germline stem cell proliferation in rodent testis ex vivo and in vitro**

Anna Eggert <sup>1,3</sup>, Sini Laasanen <sup>1</sup>, Mirja Nurmi <sup>1</sup>, Aida Wahlgren <sup>4</sup>, Kirsi Jahnukainen <sup>4,5</sup>, Kim Eerola <sup>1,6</sup>, Noora Kotaja <sup>1</sup>, Juho-Antti Mäkelä <sup>1(\*)</sup>, Jorma Toppari <sup>1,2(\*)</sup>

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**A-0153 Unraveling the Impact of Galectin-3 in Testicular Inflammation and Fibrosis**

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**A-0169 Unlocking the Potential of In Vitro Testis Modeling: Towards a Functional Replication of the Native Microenvironment**

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**A-0176 Representative preclinical models of the human testis**

Kamalath Selvakumar <sup>1,2</sup>, Nasrin Ghanami Gashti <sup>1</sup>, Fatima Batool <sup>1</sup>, Isabel Andersson <sup>1</sup>, Jishnu Padacherri Vethil <sup>1</sup>, Eoghan M Cunnane <sup>1,2</sup>

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**A-0179 Oligoasthenoteratozoospermia: searching for genomic variants and methylation level alterations in sperm DNA of infertile brothers**

Marta Olszewska <sup>1</sup>, Marzena Kamieniczna <sup>1</sup>, Nijole Pollock Tjader <sup>2</sup>, Zuzanna Graczyk <sup>1</sup>, Monika Fraczek <sup>1</sup>, Marcin Graczyk <sup>1</sup>, Katarzyna Kurek <sup>1</sup>, Alexander N. Yatsenko <sup>2</sup>, Maciej Kurpisz <sup>1</sup>

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**A-0191 Expression of CTLA-4, PD-1, and PD-L1 proteins by testicular cells**

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**A-0197 FSH can favour the development of insulin resistance in the adipose tissue**

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**A-0203 Resveratrol, an active natural compound in red wine, induces H2S formation on mice penile in D-galactose-induced aging model**

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**A-0207 Transcriptomic and proteomic characterization of unexplained male infertility (UMI): alterations in energy metabolism**

Ainize Odriozola <sup>1</sup>, Itziar Urizar-Arenaza <sup>1</sup>, Beatriz Navarro Santos <sup>2</sup>, Iraia Muñoz-Hoyos <sup>1</sup>, Malen Zabala <sup>3</sup>, Manu Araolaza <sup>3</sup>, Nerea Subirán <sup>1,3</sup>

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**A-0209 Effects of GDNF on prepubertal testicular tissue samples during organotypic cultures**

Yifan Yang <sup>1</sup>, Femke Harteveld <sup>1</sup>, Hajar Ali Mohammed Ba Omar <sup>1</sup>, Yanhua Cui <sup>1</sup>, Kirsi Jahnukainen <sup>1,2</sup>, Jan-Bernd Stukenborg <sup>1</sup>

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**A-0218 SPTBN1 mediates the cytoplasmic constraint of PTTG1 impairing its oncogenic activity in human seminoma**

Emanuela Teveroni <sup>1</sup>, Fiorella Di Nicuolo <sup>1</sup>, Edoardo Vergani <sup>2</sup>, Alessandro Oliva <sup>2</sup>, Emanuele Pierpaolo Vodola <sup>2</sup>, Giada Bianchetti <sup>3,4</sup>, Giuseppe Maulucci <sup>3,4</sup>, Marco De Spirito <sup>3,4</sup>, Tonia Cenci <sup>5</sup>, Francesco Pierconti <sup>5</sup>, Gaetano Gulino <sup>6</sup>, Pierfrancesco Bassi <sup>6</sup>, Federica Iavarone <sup>7</sup>, Andrea Urbani <sup>7</sup>, Alfredo Pontecorvi <sup>1,2</sup>, Domenico Milardi <sup>1,2</sup>, Francesca Mancini <sup>1</sup>

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**A-0243 3D Robust Spatiotemporal Molecular Model of Acrosome Biogenesis**

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**A-0246 ART reproductive outcome: effects of Sperm DNA Fragmentation and methylation of H19 and IGF2 genes. A pilot study**

Anna Chiara Conflitti <sup>1</sup>, Fani Konstantinidou <sup>3,4</sup>, Alessandra Buonacquisti <sup>1,5</sup>, Gaia Cicolani <sup>1</sup>, Serena Bianchini <sup>1</sup>, Sara Pitton <sup>1</sup>, Vittorio Di Pietro <sup>1</sup>, Antonella Linari <sup>2</sup>, Ludovico Muzii <sup>2</sup>, Luisa Caponecchia <sup>1</sup>, Francesco Pallotti <sup>5</sup>, Donatella Paoli <sup>1</sup>, Liborio Stuppia <sup>3,4</sup>, Valentina Gatta <sup>3,4</sup>, Francesco Lombardo <sup>1</sup>

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**A-0269 The Investigation of the Ameliorative Effect of Ferulic Acid on Fertility in Monosodium Glutamate-induced Testicular Damage**

Anil Can <sup>1</sup>, Seda Sezer <sup>1</sup>, Meltem Kolgazi <sup>2</sup>, Serap Arbak <sup>1</sup>, Merve Acikel Elmas <sup>1</sup>

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**A-0290 Influence of male aging, body mass index and waist-hip ratio on the basic semen parameters, sperm DNA fragmentation, hyaluronic acid binding assay and oxidation–reduction potential in semen**

Kamil Gill <sup>1</sup>, Patryk Harasny <sup>1,2</sup>, Tomasz Machalowski <sup>1,3</sup>, Marta Grabowska <sup>1</sup>, Małgorzata Piasecka <sup>1</sup>

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**A-0057 using aglan flap in peyronie’s surgery**

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**A-0059 Age disparity in couples and the sexual and general health of the male partner**

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**A-0079 CORTISOL IN SEMINAL PLASMA: a potential addition to the multidimensional approach to male infertility**

G. Salvio <sup>1</sup>, A. Ciarloni <sup>1</sup>, A. Calcinari <sup>2</sup>, M. Pavani <sup>2</sup>, L. Babini <sup>2</sup>, B. Niccoletti <sup>2</sup>, V. Viola <sup>2</sup>, N. Delli Muti <sup>1</sup>, M. Martino <sup>1</sup>, M. Moretti <sup>2</sup>, G. Arnaldi <sup>1\*</sup>, G. Balercia <sup>1\*</sup>

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**A-0080 Seminal Testis-expressed gene 101 (TEX101) and lectin galactoside-binding protein (LAGALS3BP) but not extracellular matrix protein1 (ECM1) may predict successful testicular sperm retrieval in Non-Obstructive Azoospermia**

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**A-0090 Influence of testosterone on basal metabolic rate in men**

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**A-0101 Effect of varicocele on serum testosterone levels of hypogonadal men above 40 years of age**

Nader Ibrahim <sup>1</sup>, Mohamed Arafa <sup>1,2,3</sup>, Khalid Al Kubaisi <sup>1</sup>, Kareim Khalafalla <sup>1</sup>, Ahmad Al Malki <sup>1,4</sup>, Haitham Elbardisi <sup>1,2,4</sup>, Ahmad Majzoub <sup>1,2</sup>

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**A-0102 Increase in testosterone measurements and doses of testosterone replacement therapy reimbursed by the Belgian Healthcare system between 2013 and 2022**

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**A-0104 Inversion du chromosome 16 en mosaïque à l'origine d'une azoospermie**

M Ben Tekaya <sup>1</sup>, S Mougou <sup>1</sup>, Nabila <sup>2</sup>, Mhamdi <sup>2</sup>, M Gribaa <sup>1</sup>, S Ibala-Romdhane <sup>1</sup>

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**A-0110 Assessment of male androgen exposure: a survey on measurement and reporting of total testosterone, sex hormone-binding globulin and free testosterone in clinical laboratories across Europe**

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**A-0115 Relationships between Malondialdehyde, F2-Isoprostanes, and Interleukin-1 $\beta$  in semen of patients with inflammation-associated reproductive pathologies**

Roberta Corsaro<sup>1</sup>, Laura Liguori<sup>1</sup>, Giulia Collodel<sup>1</sup>, Cinzia Signorini<sup>1</sup>, Lucia Micheli<sup>2</sup>, Laura Gambera<sup>3</sup>, Elena Moretti<sup>1</sup>

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**A-0134 The role of anti-Müllerian hormone and ano-genital distance in predicting the outcome of micro-dissection testicular sperm in men with Klinefelter Syndrome**

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**A-0136 Impact of childhood cancer therapy exposures on longitudinal development of testicular volume, spermatogenesis, and paternity**

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**A-0141 Clinical risk factors for anti-sperm antibodies: a monocentric study on almost 2,700 men**

Maria Totaro, Giuliana Cordeschi, Gilda Dalmazio, Luca Spagnolo, Daniele Tienforti, Felice Francevella, Arcangelo Barbonetti

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**A-0147 Prevalence of gut dysbiosis in patients with persistent male accessory gland infections**

Giuseppe Grande, Andrea Graziani, Raffaele Scafa, Riccardo Selice, Antonella Di Mambro, Luca De Toni, Andrea Garolla, Alberto Ferlin

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**A-0148 Cardiometabolic indices in a cohort of 182 patients with Klinefelter Syndrome**

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**A-0150 A comprehensive project approach to protecting the reproductive health of the population: evaluation of effectiveness**

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**A-0151 Biochemical, bone and genetic status in a cohort of 515 patients with Klinefelter Syndrome**

Andrea Graziani<sup>1</sup>, Giuseppe Grande<sup>2</sup>, Andrea Di Nisio<sup>2</sup>, Riccardo Selice<sup>2</sup>, Antonella Di Mambro<sup>2</sup>, Alberto Ferlin<sup>1,2</sup>

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**A-0156 Lifetime prevalence of unfulfilled desire for children in middle-aged men and its medical assessment – results from the BMH-Study**

Lilly Johanna Schmalbrock<sup>1</sup>, Hannah Leukers<sup>1</sup>, Frank-Michael Köhn<sup>2</sup>, Cornelia Peter<sup>1</sup>, Matthias Jahnen<sup>1</sup>, Stefan Schiele<sup>1</sup>, Valentin H. Meissner<sup>1</sup>, Helga S Schulwitz<sup>1</sup>, Jürgen E Gschwend<sup>1</sup>, Kathleen Herkommer<sup>1</sup>

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**A-0159 Efficacy and predictors of spermatogenesis induction upon gonadotropin and GnRH therapy in Congenital Hypogonadotropic Hypogonadism: a meta-analysis**

Dimitri Yannas<sup>1</sup>, Linda Vignozzi<sup>1</sup>, Giovanni Corona<sup>2</sup>, Mario Maggi<sup>1</sup>, Giulia Rastrelli<sup>1</sup>

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**A-0162 Evaluation of the semen microbiome for fertility in obese men with next-generation sequencing**

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**A-0167 Pharmacodynamics and safety of human recombinant luteinising hormone (LH) in hypogonadotropic hypogonadal men: interim analysis results of an ongoing multicenter trial**

Giorgia Spaggiari<sup>1,2</sup>, Francesco Costantino<sup>1,3</sup>, Leonardo Dalla Valentina<sup>1,3</sup>, Chiara Furini<sup>1,3</sup>, Davide Menafrà<sup>4</sup>, Antonio De Fraia<sup>4</sup>, Rosario Pivonello<sup>4</sup>, Rita Indirli<sup>5,6</sup>, Emanuele Ferrante<sup>6</sup>, Francesco Pallotti<sup>7</sup>, Francesco Lombardo<sup>7</sup>, Manuela Simoni<sup>1,3</sup>, Daniele Santi<sup>1,2,3</sup>

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**A-0168 Fertility preservation in pre-pubertal boys: results of an international survey by the ORCHID-NET consortium**

Kathleen Duffin, Nina Neuhaus, Claus Yding Andersen, Virginie Barraud-Lange, Aude Braye, Cristina Eguizabal, Aurélie Feraille, Jill P Ginsberg, Debra Gook, Ellen Goossens, Kirsi Jahnukainen, Yasmin Jayasinghe, Victoria Keros, Sabine Kliesch, Sheila Lane, Callista L Mulder, Kyle E Orwig,



Ans M M van Pelt, Catherine Poirot, Michael P Rimmer, Nathalie Rives, Hooman Sadri-Ardekani, Myriam Safrai, Stefan Schlatt, Jan-Bernd Stukenborg, Marianne D van de Wetering, Christine Wyns, Rod T Mitchell

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**A-0170 Factors associated with variations in calculated free testosterone in men: individual participant data meta-analyses on 20,631 participants**

Nick Narinx <sup>1</sup>, Ross J Marriott <sup>2</sup>, Kevin Murray <sup>2</sup>, Shalender Bhasin <sup>3</sup>, Adrian S Dobs <sup>4</sup>, Leon Flicker <sup>5,6</sup>, Graeme J Hankey <sup>5,7</sup>, Robin Haring <sup>8,9</sup>, Alvin M Matsumoto <sup>10,11</sup>, Eric S Orwoll <sup>12</sup>, Gary A Wittert <sup>13</sup>, Frederick C W Wu <sup>14</sup>, Leen Antonio <sup>1</sup>, Dirk Vanderschueren <sup>1(\*)</sup>, Bu B Yeap <sup>11,15(\*)</sup>

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**A-0177 Fertility protection in adolescents and young adults with azoospermia and genetic abnormalities, chronic diseases and testicular neoplasia**

Jan Karol Wolski <sup>1</sup>, Krzysztof Papis <sup>1</sup>, Robert Wyban <sup>1</sup>, Karina Gawron <sup>1</sup>, Bogdan Biarda <sup>1</sup>, Dariusz Starczewski <sup>1</sup>, Joanna Ostrowska <sup>2</sup>, Agnieszka Sobczykńska-Tomaszewska <sup>3</sup>, Katarzyna Kozioł <sup>1</sup>, Piotr Lewandowski <sup>1</sup>

<sup>1</sup> Fertility Center nOvum, Warsaw, Poland; <sup>2</sup> Center for Pathomorphological Diagnostics, Warsaw, Poland; <sup>3</sup> Medical Center Medgen, Warsaw, Poland

**A-0178 Researching the influence on hypogonadism symptoms dynamics of complex containing Eurycoma longifolia extract, icariin and apigenin**

Dmitriy Lerman <sup>1</sup>, Anna Voevodina <sup>2</sup>, Stepan Krasnyak <sup>3</sup>

<sup>1</sup> Chaika Clinic, Moscow, Russia; <sup>2</sup> I.M. Sechenov First Moscow State Medical University, Russia; <sup>3</sup> N.A. Lopatkin Research Institute of Urology and Interventional Radiology – branch of the Federal State Budgetary Institution "NMIC of Radiology" of the Ministry of Health of the Russian Federation, Moscow, Russia

**A-0180 Screening male infertility gene panel for causal variants in the ESTonian ANDrology cohort**

Kristiina Lillepea <sup>1</sup>, Anna-Grete Juchnewitsch <sup>1</sup>, Laura Kasak <sup>1</sup>, Anu Valkna <sup>1</sup>, Avirup Dutta <sup>1</sup>, Kristjan Pomm <sup>2</sup>, Olav Poolamets <sup>2</sup>, Margus Punab <sup>1,2,3</sup>, Maris Laan <sup>1</sup>

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**A-0200 Whole exome and genome sequencing in the diagnosis of genetic syndromic and non-syndromic male infertility**

O.A. Solovova <sup>1</sup>, O.P. Ryzhkova <sup>1</sup>, E.E. Bragina <sup>1,2</sup>, A.N. Tiulpakov <sup>1</sup>, T.M. Sorokina <sup>1</sup>, M.I. Shtaut <sup>1</sup>, S.Sh. Khayat <sup>1</sup>, V.B. Chernykh <sup>1,3</sup>

<sup>1</sup> Research Centre for Medical Genetics, Moscow, Russia; <sup>2</sup> Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, Russia; <sup>3</sup> Pirogov Russian National Research Medical University of the Ministry of Healthcare of the Russian Federation, Moscow, Russia

**A-0202 Age as a factor of male fertility - Alterations in the levels of sperm DNA fragmentation in the Greek population**

Themistoklis Loumakos <sup>1</sup>, George Kanakis <sup>2</sup>, Dimitrios Stathopoulos <sup>1</sup>, Panagiotis Kotrotsos <sup>1</sup>, Evangelini Evgeni <sup>1</sup>

<sup>1</sup> Cryogonia Cryopreservation Bank, Athens Greece; <sup>2</sup> Department of Endocrinology and Assisted Reproduction Unit, Naval & VA Hospital of Athens, Athens, Greece

**A-0220 Ten years of testicular tissue cryopreservation in Croatia**

Davor Ježek <sup>1,2</sup>, Marija Čapin Vilaj <sup>1</sup>, Dinko Hauptman <sup>3</sup>

<sup>1</sup> Department of Transfusion Medicine and Transplantation Biology, University Hospital Centre Zagreb, Zagreb, Croatia; <sup>2</sup> Department of Histology and Embryology, School of Medicine, University of Zagreb, Zagreb, Croatia; <sup>3</sup> Department of Urology, University Hospital Centre Zagreb, Zagreb, Croatia

**A-0222 Chromosome screening and results analysis of 2754 sperm donor in Sichuan area**

Xian Yang, Bo Liu, Li-Juan Ying, Xiao Liu, Shasha Liu, Wenrui Zhao, Xuefeng Luo, Jinyan Xu, Fu-Ping Li

Andrology/Human Sperm Bank, West China Second University Hospital, Sichuan University, Chengdu, China

**A-0233 Testicular volume and its relationship with seminal parameters and DNA fragmentation in patients with infertility in a uroandrology center in Jalisco, Mexico**

Andres Mora Topete, Moises Abraham Adel Dominguez

Centro de Uro Andrologia SC, Guadalajara, Mexico

**A-0239 Follow-up after pediatric chemo- and/or radiotherapy and immature testicular tissue banking**

Emily Delgouffe <sup>1</sup>, Aude Braye <sup>1</sup>, Veerle Vloeberghs <sup>2</sup>, Herman Tournaye <sup>2</sup>, Inge Gies <sup>3</sup>, Ellen Goossens <sup>1</sup>

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**A-0248 Impact of ketogenic diet on semen quality in obese patients: Cytological and molecular aspects, a pilot study**

Gaia Cicolani<sup>1</sup>, Alessandra Buonacquisto<sup>1,2</sup>, Anna Chiara Conflitti<sup>1</sup>, Serena Bianchini<sup>1</sup>, Silvia Di Chiano<sup>1</sup>, Enrico Delli Paoli<sup>1</sup>, Marta Ruberto<sup>1</sup>, Roberto Abdel Malek<sup>1</sup>, Rebecca Rossetti<sup>3</sup>, Lucio Gnessi<sup>3</sup>, Carla Lubrano<sup>3</sup>, Luisa Caponecchia<sup>1</sup>, Francesco Pallotti<sup>2</sup>, Donatella Paoli<sup>1</sup>, Francesco Lombardo<sup>1</sup>

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**A-0249 Potential for fertility protection among transgender assigned male at birth at a German reproductive facility**

Florian Schneider<sup>1,2</sup>, Bettina Scheffer<sup>2</sup>, Stefan Schlatt<sup>1</sup>, Nina Neuhaus<sup>1</sup>, Sabine Kliesch<sup>2</sup>, Jann-Frederik Cremers<sup>2</sup>

<sup>1</sup> Centre of Reproductive Medicine and Andrology, Institute of Reproductive- and Regenerative Biology, Albert-Schweitzer-Campus 1, Building D11, Muenster, Germany; <sup>2</sup> Centre of Reproductive Medicine and Andrology, Department of Clinical and Surgical Andrology, Albert-Schweitzer-Campus 1, Building D11, Muenster, Germany

**A-0250 Bone marrow composition: the effect of GAHT use in AFAB and AMAB transgender people**

Silvia Di Chiano<sup>1</sup>, Francesco Pallotti<sup>2</sup>, Daniele Diacinti<sup>3</sup>, Enrico Delli Paoli<sup>1</sup>, Roberto Abdel Malek<sup>1</sup>, Vittorio Di Pietro<sup>1</sup>, Sara Pitton<sup>1</sup>, Marta Ruberto<sup>1</sup>, Francesco Lombardo<sup>1</sup>

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**A-0251 Effect of different testosterone formulations for gender affirming hormonal therapy on menstrual pattern in people assigned female at birth**

Nunzia Verde<sup>1</sup>, Luca Bruno<sup>1</sup>, Cristina de Angelis<sup>1</sup>, Francesco Garifalos<sup>1</sup>, Davide Menafra<sup>1</sup>, Domenico Mattiello<sup>2</sup>, Roberto Vitelli<sup>2</sup>, Antonio De Fraia<sup>1</sup>, Stefano Zarrilli<sup>1</sup>, Annamaria Colao<sup>1,3</sup>, Rosario Pivonello<sup>1,3</sup>

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**A-0252 Effect of anti-androgen medications on hormonal parameters in people assigned male at birth**

Nunzia Verde<sup>1</sup>, Luca Bruno<sup>1</sup>, Cristina de Angelis<sup>1</sup>, Francesco Garifalos<sup>1</sup>, Davide Menafra<sup>1</sup>, Domenico Mattiello<sup>2</sup>, Roberto Vitelli<sup>2</sup>, Antonio de Fraia<sup>1</sup>, Stefano Zarrilli<sup>1</sup>, Annamaria Colao<sup>1,3</sup>, Rosario Pivonello<sup>1,3</sup>

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**A-0254 Antisperm antibodies in Zinner syndrome**

Enrico Delli Paoli<sup>1</sup>, Gaia Cicolani<sup>1</sup>, Alessandra Buonacquisto<sup>1,2</sup>, Anna Chiara Conflitti<sup>1</sup>, Serena Bianchini<sup>1</sup>, Luisa Caponecchia<sup>1</sup>, Silvia Di Chiano<sup>1</sup>, Francesco Pallotti<sup>2</sup>, Donatella Paoli<sup>1</sup>, Francesco Lombardo<sup>1</sup>

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**A-0255 gonadis national registry on gonadal status in pituitary and adrenal disorders: prevalence and characterization of testicular morpho-structural alterations and reproductive dysfunctions in male patients with congenital adrenal hyperplasia**

Antonio De Fraia<sup>1</sup>, Davide Ferrari<sup>2</sup>, Giulia Rastrelli<sup>3</sup>, Cristina de Angelis<sup>1</sup>, Marianna Minnetti<sup>2</sup>, Chiara Simeoli<sup>1</sup>, Valeria Lanzi<sup>4</sup>, Alessio Bellelli<sup>5</sup>, Angelo Cignarelli<sup>6</sup>, Jacopo Giannelli<sup>7</sup>, Linda Vignozzi<sup>3</sup>, Giovanni Corona<sup>8</sup>, Andrea M Isidori<sup>2</sup>, Rosario Pivonello<sup>1,9</sup>

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**A-0277 High-grade aneuploidies of sex chromosomes with male phenotype (e.g., 48, XXYY; 48, XXXY; 49, XXXXY syndromes): an MTG7 Endo-ERN survey**

Matteo Spaziani<sup>1,2</sup>, Francesco Angelini<sup>1,2</sup>, Francesco Carlomagno<sup>1,2</sup>, Chiara Tarantino<sup>1,2</sup>, Arianna Gagliardi<sup>1,2</sup>, Walter Bonfig<sup>3</sup>, Dominique Maiter<sup>4</sup>, Inge Gies<sup>5</sup>, Claus H. Gravholt<sup>6</sup>, Anders Juul<sup>7</sup>, Vallo Tillmann<sup>8</sup>, Philippe Chanson<sup>9</sup>, Corinna Grasemann<sup>10</sup>, Martin Wabitsch<sup>11</sup>, Mark Sherlock<sup>12</sup>, Katherine Esposito<sup>13</sup>, Alessandra Gambineri<sup>14</sup>, Luca Persani<sup>15</sup>, Giovanna Mantovani<sup>16</sup>, Gianni Russo<sup>17</sup>, Vincenzo Rochira<sup>18</sup>, Annamaria Colao<sup>19</sup>, Ezio Ghigo<sup>20</sup>, Iveta Dzivite-Krisane<sup>21</sup>, Rasa Verkausiene<sup>22</sup>, Hedi Claahsen<sup>23</sup>, Erica van den Akker<sup>24</sup>, Paul van Trotsenburg<sup>25</sup>, Aneta Gawlik<sup>26</sup>, Marek Niedziela<sup>27</sup>, Ludmila Kostalova<sup>28</sup>, Primoz Kotnik<sup>29</sup>, Anna Nordenström<sup>30</sup>, Csilla Krausz<sup>31</sup>, Daniele Gianfrilli<sup>1,2</sup>, Andrea M Isidori<sup>1,2</sup>, Carlotta Pozza<sup>1,2</sup>

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Azienda Ospedaliera Universitaria "Federico II", Napoli; (20) Azienda Ospedaliera Universitaria Città della Salute e della Scienza di Torino; (21) Childrens Clinical University Hospital; (22) Hospital of Lithuanian University of Health Sciences Kauno Klinikos; (23) Radboud University Nijmegen Medical Center – including Amalia's children Hospital; (24) Erasmus MC: University Medical Center Rotterdam; (25) Amsterdam UMC; (26) Saint John Paul II Upper Silesian Child Health Centre, Public Clinical Hospital no.6 of the Medical University of Silesia in Katowice; (27) Karol Jonscher's Clinical Hospital of Poznan University of Medical Sciences; (28) National Institute of Children's Diseases, Dept. of Paediatrics of Medical Faculty Comenius University; (29) University Medical Centre Ljubljana; (30) Karolinska University Hospital; (31) University Hospital Florence

**A-0278 The volumetric response of hypoechoic testicular micronodules in men with primary gonadal failure treated with testosterone therapy**

Davide Ferrari <sup>1</sup>, Franz Sesti <sup>1</sup>, Marta Tenuta <sup>1</sup>, Matteo Spaziani <sup>1</sup>, Daniele Gianfrilli <sup>1</sup>, Carlotta Pozza <sup>1</sup>, Andrea M. Isidori <sup>1,2</sup>

<sup>1</sup> Department of Experimental Medicine, Sapienza University of Rome, Rome, Italy; <sup>2</sup> Centre for Rare Diseases (Endo-ERN accredited) Policlinico Umberto I, Rome, Italy

**A-0285 The impact of testosterone gel treatment on semen quality in reproductive-aged men with hypogonadism**

Iurii Arian <sup>1,2</sup>, Ion Dumbraveanu <sup>1,2</sup>, Victoria Ghenciu <sup>2</sup>, Sandu Druta <sup>2</sup>, Ion Dumbraveanu <sup>2</sup>, Emil Ceban <sup>1,2</sup>

<sup>1</sup> Department of Urology and Surgical Nephrology, Nicolae Testemitanu State University of Medicine and Pharmacy, Chisinau, Moldova; <sup>2</sup> Laboratory of Urology, Andrology and Reproductive Medicine, Nicolae Testemitanu State University of Medicine and Pharmacy, Chisinau, Moldova

**A-0286 Rare cause of hypogonadotropic hypogonadism, challenges in management: a case report**

Radvile Matukaitiene <sup>1,2</sup>, Jonas Ceponis <sup>1,2</sup>, Birute Zilaitiene <sup>1,2</sup>

<sup>1</sup> Lithuanian University of Health Sciences, Institute of Endocrinology, Kaunas, Lithuania; <sup>2</sup> Hospital of Lithuanian University of Health Sciences, Department of Endocrinology, Kauno Klinikos, Kaunas, Lithuania

**A-0287 A case report of rare 46,XX/47,XXY mosaicism in a phenotypic male with Klinefelter syndrome and colorectal adenocarcinoma**

Iurii Arian <sup>1,2</sup>, Ion Dumbraveanu <sup>1,2</sup>, Victoria Ghenciu <sup>2</sup>, Ozcan Yasin Karabacak <sup>2</sup>, Maria-Mirabela Butnaru <sup>2</sup>, Emil Ceban <sup>1,2</sup>

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**A-0291 An unusual case of stuttering priapism in a kidney transplant patient under Tacrolimus (FK506)**

Lukas Schäfer, Josephine Krenz, Armin Soave

Universiy Hospital, Hamburg, Germany

**A-0295 IQCH, a calmodulin-binding protein involved in sperm motility and capacitation**

Emma Cavarocchi <sup>1</sup>, Caroline Dewalle <sup>2</sup>, Carina Prip-Buus <sup>2</sup>, Aminata Touré <sup>1</sup>

<sup>1</sup> Institute for Advanced Biosciences. Team Physiology and Pathophysiology of Sperm cells. INSERM U1209, CNRS UMR 5309, Université Grenoble Alpes. Grenoble, France; <sup>2</sup> Institut Cochin Team Mitochondria, bioenergetics, metabolism and signaling. INSERM U1016, CNRS 9, Université Paris Cité. Paris, France

## S10 SYMPOSIUM 10: Testicular cancer

Friday, 06 September 2024 | 13:30 - 15:00 CEST (GMT+1) | Mälarsalen

Chairs: Ewa Rajpert-De Meyts, Alberto Ferlin

**A-0045 Testis function and fertility in TC survivors (EINSTEIN study)**

Mikkel Bandak

Department of Oncology, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark

**A-0046 Is there a place for testis sparing surgery?**

Ruben Gössmann, Axel Heidenreich

Germany

**A-0247 The recommended timing for semen cryopreservation in testicular cancer: before or after orchiectomy?**

Alessandra Buonacquisti <sup>1,2</sup>, Gaia Cicolani <sup>1</sup>, Anna Chiara Conflitti <sup>1</sup>, Serena Bianchini <sup>1</sup>, Silvia Di Chiano <sup>1</sup>, Enrico Delli Paoli <sup>1</sup>, Carlotta Pozza <sup>3</sup>, Daniele Gianfrilli <sup>3</sup>, Andrea Marcello Isidori <sup>3</sup>, Luisa Caponecchia <sup>1</sup>, Francesco Pallotti <sup>2</sup>, Donatella Paoli <sup>1</sup>, Francesco Lombardo <sup>1</sup>

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**A-0244 Gene ontology analysis of WES data reveals significant overrepresentation of DNA repair pathway in patients affected by TGCT**

Chiara Abrardo <sup>1</sup>, Ginevra Farnetani <sup>1</sup>, Matilde Spinelli <sup>2</sup>, Giuseppe Defazio <sup>1</sup>, Matteo Vannucci <sup>1</sup>, Daniel Moreno-Mendoza <sup>2</sup>, Eduard Ruiz-Castañé <sup>2</sup>, Antoni Riera-Escamilla <sup>2</sup>, Csilla Krausz <sup>1</sup>

<sup>1</sup> Experimental and Clinical Biomedical Science, University of Florence, Florence, Italy; <sup>2</sup> Andrology Dept., Fundació Puigvert, Universitat Autònoma de Barcelona, Institut de Investigacions Biomèdiques Sant Pau (IIB-Sant Pau) Barcelona, Spain

## S12 SYMPOSIUM 12: Novel aspects of testis function

Friday, 06 September 2024 | 13:30 - 15:00 CEST (GMT+1) | Nobelterrassen

Chairs: Davor Jezek, Sandra Laurentino

**A-0047 Endocannabinoid system in the developing testis**

Aurore Gely-Pernot

Inserm (Institut National de La Santé Et de La Recherche Médicale), EHESP, Irset – UMR, Univ Rennes, Rennes, France

**A-0048 RANKL signalling in the testis**

Martin Blomberg Jensen

Division of Translational Endocrinology, Department of Endocrinology and Internal Medicine, University Hospital Copenhagen, Herlev-Gentofte, Herlev, Denmark

**A-0049 The multi-scale architecture of mammalian sperm tail and implications for motility**

Tzviya Zeev-Ben-Mordehai

Structural Biochemistry, Bijvoet Centre for Biomolecular Research, Utrecht University, 3584 CG Utrecht, The Netherlands

**A-0198 Single-cell roadmap of marmoset postnatal testicular development reveals the entire germline differentiation pathway and the interplay between germline and soma**

Juan Manuel Paturlanne<sup>1</sup>, Sara Di Persio<sup>1</sup>, Pia Lange<sup>2</sup>, Marius Wöste<sup>2</sup>, Amadeusz Odronec<sup>1,3</sup>, Joachim Wistuba<sup>1</sup>, Sarah Sandmann<sup>2</sup>, Xiaolin Li<sup>4</sup>, Gerd Meyer zu Hörste<sup>4</sup>, Stefan Schlatt<sup>1</sup>, Sandra Laurentino<sup>1</sup>, Nina Neuhaus<sup>1</sup>

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## S14 SYMPOSIUM 14: Sexual dysfunction

Friday, 06 September 2024 | 13:30 - 15:00 CEST (GMT+1) | Magasinet

Chairs: Eduard Ruiz-Castané, Ahmad Majzoub

**A-0043 Post SSRI Sexual Dysfunction**

Francesco Pallotti

Laboratory of Seminology - Sperm Bank "Loredana Gandini", Department of Experimental Medicine, "Sapienza" University of Rome, Rome, Italy; Faculty of Medicine and Surgery, University of Enna "Kore", Enna, Italy

**A-0051 Use of sex toys/sex aids: social and cultural determinants**

Andrea Sansone

Chair of Endocrinology and Medical Sexology, Dept. of Systems Medicine, University of Rome Tor Vergata, Rome, Italy

**A-0157 Sexual Dissatisfaction Among Middle-Aged Men: Findings from the Bavarian Men's Health-Study**

Lilly J. Schmalbrock<sup>1</sup>, Teresa M. P. Schweitzer<sup>1</sup>, Valentin H. Meissner<sup>1</sup>, Christian Leiber-Caspers<sup>2</sup>, Stefan Schiele<sup>1</sup>, Matthias Jahnen<sup>1</sup>, Helga S. Schulwitz<sup>1</sup>, Jürgen E. Gschwend<sup>1</sup>, Kathleen Herkommer<sup>1</sup>

<sup>1</sup> Department of Urology, Klinikum rechts der Isar, Technical University of Munich, School for Medicine and Health, Munich, Bavaria, Germany; <sup>2</sup> Department of Urology, Pediatric Urology, and Urogynecology, Krankenhaus Maria-Hilf der Alexianer Krefeld GmbH, Krefeld, North Rhine-Westphalia, Germany

**A-0270 Gonadis national registry on gonadal status in pituitary and adrenal disorders: prevalence and characterization of sexual dysfunctions in male patients with acromegaly**

Francesco Garifalos<sup>1</sup>, Cristina de Angelis<sup>1</sup>, Marianna Minnetti<sup>2</sup>, Davide Menafra<sup>1</sup>, Rosa Pirchio<sup>1</sup>, Giovanni Corona<sup>3</sup>, Andrea M Isidori<sup>2</sup>, Annamaria Colao<sup>1,4</sup>, Rosario Pivonello<sup>1,4</sup>

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**A-0208 Difference of factors associated with lifelong/acquired and subjective/variable premature ejaculation: Results of the Bavarian Men's Health-Study**

Victoria A. Soehne<sup>1</sup>, Valentin H. Meissner<sup>1</sup>, Stefan Schiele<sup>1</sup>, Andreas Dinkel<sup>2</sup>, Matthias Jahnen<sup>1</sup>, Martina Kron<sup>3</sup>, Jürgen E. Gschwend<sup>1</sup>, Kathleen Herkommer<sup>1</sup>

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## PL4 Plenary Debate - TESE in non-azoospermic patients: is this ever indicated?

Friday, 06 September 2024 | 15:05 - 15:35 CEST (GMT+1) | Mälarsalen

Chairs: Marij Dinkelman-Smit

**A-0053 Pro**

Sabine Kliesch

Centre of Reproductive Medicine and Andrology, Department of Clinical and Surgical Andrology, University Münster, Germany

**A-0054 Contra**

Philippa Sangster

London, UK

## S20 Closing ceremony

Friday, 06 September 2024 | 15:40 - 16:00 CEST (GMT+1) | Mälarsalen

Congress Awards Ceremony

- Best Poster Awards
- EAA ECA 2024 Travel Grants
- ISA ECA2024 Travel Grants
- Special Thanks Certificates