

# Andronet News

## Winter 2023/2024

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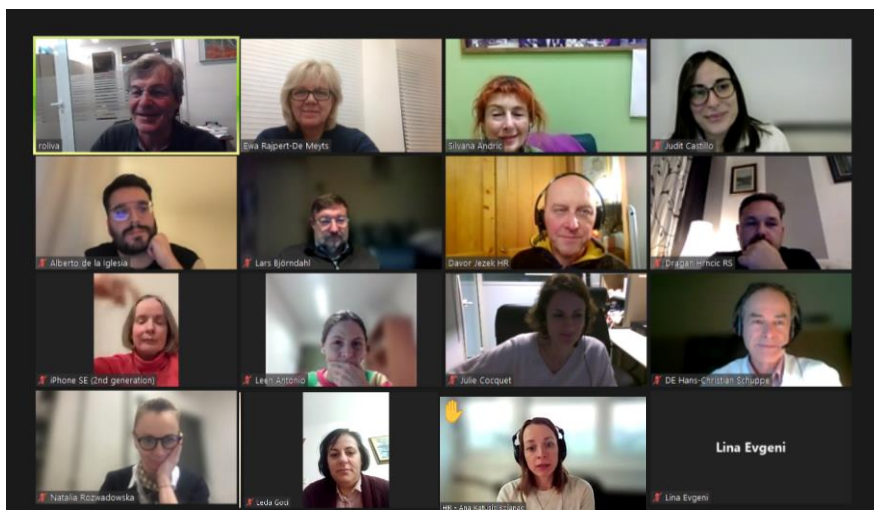
### Dear ANDRONET Members,

After a nice Holiday Season at the end of 2023, we are now looking forward to new activities in the spring. Note that ANDRONET will support several short-term scientific visits for collaborating researchers or clinical trainees. For inspiration look at the list of publications in the Science Corner – several highlight truly ground-breaking results and methods!

It is now time to plan attendance at the numerous andrology-related meetings in 2024, including the NYRA meeting in Brussels, specially designed for young researchers (see the Event Calendar). Note that 2 generous conference travel grants are available for members from the 'Inclusiveness target' countries. Importantly, all members should plan to attend our main event this year - the ECA2024 in Stockholm, with travel reimbursement for active participants.

### The Extended Core Group Meeting (online) 18 December 2023

The ANDRONET ExtCG members (see the full list at: <https://www.andronet.cat/management/>) held in December their last in 2023 meeting (*a screenshot below*). They discussed the latest activities and the budget plan for the next year. The main ANDRONET event will take place in September in Stockholm (*see the announcement in this Newsletter*).



## 2<sup>nd</sup> Announcement: ANDRONET's main event in 2024



The 13<sup>th</sup> European Congress of Andrology (ECA2024) will take place on **4-6 September 2024**. The ANDRONET-EAA Conference and Course for Andrologists and the Managing Committee (MC) meeting will take place in connection with the Congress. The Course will be held just before the start of the ECA (around noon 4<sup>th</sup> Sept.) and the MC meeting on Thursday, 5<sup>th</sup> Sept. The ECA is the biggest biennial event in the field of andrology in Europe, and all ANDRONET members are warmly invited. ANDRONET will reimburse the partial travel costs (2-3 days) of around 70 members, including the MC members and other active participants (speakers or poster presenters). As usual, the expenses will be reimbursed via members e-COST accounts after the ECA. Registration and abstract submission are open! **Deadline for the abstract submission: 15 March 2024, and for “early-bird” registration: 15 April 2024.** All information is available on the ECA's website: [eca2024.com](http://eca2024.com)

### Call for short-term scientific missions (STSM)

Following the members' wish, the latest ANDRONET budget includes support for **nine** STSM! The STSMs are designed to support scientific or educational visits among COST Members. STSMs grants (up to **4000€**) cover travel, accommodation and subsistence expenses. The realization of the STSM must be finished by October 31, 2024. **Application deadline: May 30, 2024.** More information on the ANDRONET website: <https://www.andronet.cat/stsms/>

### Travel grants for members from ITC countries

Early carrier ANDRONET investigators from one of the “Inclusiveness Target Countries” (ITC) are eligible for a travel grant to actively participate in a relevant international conference (*excluding ECA2024, which has a special funding*). There are two grants worth up to **2000€** each. The travel must be completed by October 31, 2024. The applications including motivation and the title of the abstract should be submitted before **deadline: May 30, 2024.** More information on the ANDRONET website: <https://www.andronet.cat/stsms/>

## Science Corner

### Recent ANDRONET publications

The list below includes articles published since the previous Newsletter, covering the period from December 2023 to the end of February 2024, and a few not listed before. If you want to share your latest publications, please notify the Science Communication Coordinator or post the reference on the Slack.

**Important:** if you are a contributor to an article that is co-authored by other ANDRONET members, or if you have benefited from an ANDRONET travel or STSM grant kindly acknowledge the support: “XX and

XY have benefited from networking grants of COST Action CA20119 (ANDRONET) supported by European Cooperation in Science and Technology (www.cost.eu)”.

## Collaborative publications with ANDRONET members from several countries:

### Acknowledging ANDRONET:

Šutulović N, Vesković M, Puškaš N, Zubelić A, Jerotić D, Šuvakov S, Despotović S, Grubač Ž, Mladenović D, Macut D, Rašić-Marković A, Simić T, Stanojlović O, Hrnčić D. Chronic Prostatitis/Chronic Pelvic Pain Syndrome Induces Depression-Like Behavior and Learning-Memory Impairment: A Possible Link with Decreased Hippocampal Neurogenesis and Astrocyte Activation. *Oxid Med Cell Longev*. 2023 Apr 6;2023:3199988. doi: 10.1155/2023/3199988.

Farnetani G, Vannucci M, Fino MG, Cioppi F, Rosta V, Palma M, Tamburrino L, Vinci S, Casamonti E, Degl'Innocenti S, Spinelli M, Abrardo C, Marchiani S, Lotti F, Muratori M, Riera-Escamilla A, Krausz C. Severe sperm DNA fragmentation may persist for up to 3 years after cytotoxic therapy in patients affected by Hodgkin lymphoma and non-Hodgkin lymphoma. *Hum Reprod*. 2024 Mar 1;39(3):496-503. doi: 10.1093/humrep/dead269.

Marcu D, Egeberg DL, Richer G, Houston B, Delgouffe E, Saritas G, Ammar O, Wehrli L, Djari C, de la Iglesia A. Empowering tomorrow's leaders: the impact of the 15th Network of Young Researchers in Andrology (NYRA) meeting on male reproductive health and interdisciplinary collaboration. *Biol Open*. 2024 Jan 15;13(1):bio060178. doi: 10.1242/bio.060178.

Krausz C, Navarro-Costa P, Wilke M, Tüttelmann F. EAA/EMQN best practice guidelines for molecular diagnosis of Y-chromosomal microdeletions: State of the art 2023. *Andrology*. 2024 Mar;12(3):487-504. doi: 10.1111/andr.13514.

Duffin K, Neuhaus N, Andersen CY, Barraud-Lange V, Braye A, Eguizabal C, Feraille A, Ginsberg JP, Gook D, Goossens E, Jahnukainen K, Jayasinghe Y, Keros V, Kliesch S, Lane S, Mulder CL, Orwig KE, van Pelt AMM, Poirot C, Rimmer MP, Rives N, Sadri-Ardekani H, Safrai M, Schlatt S, Stukenborg JB, van de Wetering MD, Wyns C, Mitchell RT. A 20-year overview of fertility preservation in boys: new insights gained through a comprehensive international survey. *Hum Reprod Open*, 10.1093/hropen/hoae010.

### Collaborative publications initiated outside ANDRONET:

Souali-Crespo S, Condrea D, Vernet N, Féret B, Klopfenstein M, Grandgirard E, Alunni V, Cerciat M, Jung M, Mayere C, Nef S, Mark M, Chalmel F, Ghyselinck NB. Loss of NR5A1 in mouse Sertoli cells after sex determination changes cellular identity and induces cell death by anoikis. *Development*. 2023 Dec 15;150(24):dev201710.

Stévant I, Gonen N, Poulat F. Transposable elements acquire time- and sex-specific transcriptional and epigenetic signatures along mouse fetal gonad development. *Front Cell Dev Biol*. 2024 Jan 12; 11:1327410.

Sharma SD, Cook MJ, Antonio L, Gielen E, Bartfai G, Casanueva FF, Huhtaniemi IT, Maggi M, Punab M, Rastrelli G, Slowikowska-Hilczler J, Tournoy J, Vanderschueren D, Wu FC, O'Neill TW. Does testosterone influence the association between sleep and frailty in men: results from the European Male Aging Study. *BMC Geriatr*. 2023 Dec 6;23(1):813. doi: 10.1186/s12877-023-04450-8.

Zoch A, Konieczny G, Auchynnikava T, Stallmeyer B, Rotte N, Heep M, Berrens RV, Schito M, Kabayama Y, Schöpp T, Kliesch S, Houston B, Nagirnaja L, O'Bryan MK, Aston KI, Conrad DF, Rappsilber J, Allshire RC, Cook AG, Tüttelmann F, O'Carroll D. C19ORF84 connects piRNA and DNA methylation machineries to defend the mammalian germ line. *Mol Cell*. 2024 Feb 7. doi.org/10.1016/j.molcel.2024.01.014.

Manfredi C, Boeri L, Sokolakis I, Schifano N, Pyrgidis N, Fernández-Pascual E, Sansone A, García-Gómez B, Albersen M, Corona G, Romero-Otero J, Fode M; ESSM Scientific Collaboration and Partnership

(ESCAP). Cell therapy for male sexual dysfunctions: systematic review and position statements from the European Society for Sexual Medicine. *Sex Med*. 2024 Feb 9. doi: 10.1093/sexmed/qfad071.

## Other publications from ANDRONET members:

### Acknowledging ANDRONET:

Jeřeta M, Kalina J, Franzova K, Fialkova S, Hosek J, Mekinova L, Crha I, Kempisty B, Ventruba P, Navratilova J. Cross sectional study on exposure to BPA and its analogues and semen parameters in Czech men. *Environ Pollut*. 345, 2024, 123445, ISSN 0269-7491, doi.org/10.1016/j.envpol.2024.123445

### Not acknowledging ANDRONET:

We highlight here only publications with relevance to the Action's objectives.

Hüneke H, Langeheine M, Rode K, Jung K, Pilatz A, Fietz D, Kliesch S, Brehm R. Effects of a Sertoli cell-specific knockout of Connexin 43 on maturation and proliferation of postnatal Sertoli cells. *Differentiation*. 2023 Nov-Dec;134:31-51.

Qasemi M, Sur VP, Simonik O, Postlerova P, Skrobaneck P, Hradec T, Boublikova L, Zamecnik L, Buchler T, Neuzil J, Komrskova K. Sperm mitochondria dysfunction in response to testicular cancer. *Eur J Clin Invest*. 2023 Dec 8:e14146. doi: 10.1111/eci.14146.

Perheentupa A, Toppari J. Male fertility and semen quality are decreasing - Do we have the expertise to deal with this challenge? *Acta Obstet Gynecol Scand*. 2023 Dec; 102(12):1606-1607. doi: 10.1111/aogs.14693.

Yang Y, Kumar V, Peng W, Fijak M, Gabriela M, Cai W, Meinhardt A, Bhushan S. Role of macrophage colony stimulating factor and interferon regulatory factor 7 in modulating the immune profile of mouse testicular macrophages. *J Reprod Immunol*. 2023 Nov 21;161:104169.

Grant B, Campbell J, Pradeep A, Burns AD, Bassett P, Abbara A, Saket P, Minhas S, Dhillon WS, McVeigh J, Bhasin S, Jayasena CN. Factors predicting normalization of reproductive hormones after cessation of anabolic-androgenic steroids in men: a single center retrospective study. *Eur J Endocrinol*. 2023 Dec 6;189(6):601-610.

Tang S, Jones C, Davies J, Lane S, Mitchell RT, Coward K. Determining the optimal time interval between sample acquisition and cryopreservation when processing immature testicular tissue to preserve fertility. *Cryobiology*. 2023 Dec 16;114:104841. doi: 10.1016/j.cryobiol.2023.104841.

Di Nisio A, De Toni L, Sabovic I, Vignoli A, Tenori L, Dall'Acqua S, Sut S, La Vignera S, Condorelli RA, Giacone F, Ferlin A, Foresta C, Garolla A. Lipidomic Profile of Human Sperm Membrane Identifies a Clustering of Lipids Associated with Semen Quality and Function. *Int J Mol Sci*. 2023 Dec 25;25(1):297.

Pavan A, Cendron L, Di Nisio A, Pedrucci F, Sabovic I, Scarso A, Ferlin A, Angelini A, Foresta C, De Toni L. In vitro binding analysis of legacy-linear and new generation-cyclic perfluoro-alkyl substances on sex hormone binding globulin and albumin, suggests low impact on serum hormone kinetics of testosterone. *Toxicology*. 2023 Dec;500:153664.

Young S, Schiffer C, Wagner A, Patz J, Potapenko A, Herrmann L, Nordhoff V, Pock T, Krallmann C, Stallmeyer B, Röpke A, Kierzek M, Biagioni C, Wang T, Haalck L, Deuster D, Hansen JN, Wachten D, Risse B, Behre HM, Schlatt S, Kliesch S, Tüttelmann F, Brenker C, Strünker T. Human fertilization in vivo and in vitro requires the CatSper channel to initiate sperm hyperactivation. *J Clin Invest*. 2024 Jan 2;134(1):e173564.

Valle-Hita C, Salas-Huetos A, Fernández de la Puente M, Martínez MÁ, Canudas S, Palau-Galindo A, Mestres C, Manzanares JM, Murphy MM, Marquès M, Salas-Salvadó J, Babio N. Ultra-processed food

consumption and semen quality parameters in the Led-Fertyl study. *Hum Reprod Open*. 2024 Jan 17;2024(1):hoae001.

Spaziani M, Carlomagno F, Tarantino C, Angelini F, Paparella R, Tarani L, Putotto C, Badagliacca R, Pozza C, Isidori AM, Gianfrilli D. From Klinefelter Syndrome to High Grade Aneuploidies: Expanding the Gene-dosage Effect of Supernumerary X Chromosomes. *J Clin Endocrinol Metab*. 2024 Jan 9:dgd730.

Jensen C, Mamsen L, Wang D, Fode M, Giwercman A, Jørgensen N, Ohl DA, Fedder J, Hoffmann ER, Andersen CY, Sønksen J. Results from the first autologous grafting of adult human testis tissue: a case report. *Hum Reprod* 2024; Feb, 39:303–309.

Spaggiari G, Costantino F, Dalla Valentina L, Romeo M, Furini C, Roli L, De Santis MC, Canu G, Trenti T, Granata ARM, Simoni M, Santi D. Are they functional hypogonadal men? Testosterone serum levels unravel male idiopathic infertility subgroups. *Endocrine*. 2024 Feb 19. 10.1007/s12020-024-03717-3.

Mathiesen S, Jensen CFS, Byrjalsen A, Aksglaede L, Jørgensen N, Ohl D, Sønksen J, Müller K. Microdissection testicular sperm extraction after pediatric allogeneic hematopoietic stem cell transplantation: a case series. *Bone Marrow Transplant*. 2024 Feb;59(2):274-277.

Lindahl-Jacobsen R, Tavlo Petersson M, Priskorn L, Skakkebaek NE, Juul A, Kristensen DM, Eisenberg ML, Jensen TK. Time to pregnancy and life expectancy: a cohort study of 18 796 pregnant couples. *Hum Reprod*. 2024 Mar 1;39(3):595-603. doi: 10.1093/humrep/dead260.

Rajpert-De Meyts E, Goriely A, Almstrup K. New analysis of atypical spermatocytic tumours reveals extensive heterogeneity and plasticity of germ cell tumours. *J Pathol*. 2024– in press.

## Event Calendar

**11-14 March 2024**

**10<sup>th</sup> Copenhagen Workshop on Endocrine Disrupters**  
Copenhagen, Denmark <https://www.cow2024.dk>



**12-15 March 2024**

**5<sup>th</sup> International Conference on Gonadotrophins and Receptors**  
Tours, France  
<https://www.lestudium-ias.com/events/icgr-v-5th-international-conference-gonadotropins-and-receptors>



**5-8 April 2024**

**39<sup>th</sup> Congress of the European Association of Urology (EAU), Paris, France**  
[www.eaucongress.uroweb.org](http://www.eaucongress.uroweb.org)



**29 April – 2 May 2024**

**American Society of Andrology (ASA) Annual Congress, Denver, Colorado, USA**  
<https://andrologysociety.org/>



**2–5 May 2024**

**27<sup>th</sup> North American Testis Workshop, Denver, Colorado, USA**  
<https://andrologysociety.org/testis-workshop/>



**11–14 May 2024**

**European Congress of Endocrinology (ECE2024), Stockholm, Sweden**  
[www.es-hormones.org/education-and-training/european-congress-of-endocrinology/ece-2024/](http://www.es-hormones.org/education-and-training/european-congress-of-endocrinology/ece-2024/)



**27–29 May 2024**

**16<sup>th</sup> Annual Meeting of the Network of Young Researchers in Andrology (NYRA), Brussels, Belgium**

<https://nyra-youngresearch.eu/16th-nyra-meeting/>



**15–19 July 2024**

**57<sup>th</sup> Annual Meeting of the Society for the Study of Reproduction (SSR)  
Dublin, Ireland**

<https://ssrannualmeeting2024.eventscribe.net/>



**21–26 July 2024**

**Mammalian Reproduction Gordon Research Seminar & Conference:  
“Diverse Strategies to Advance Reproductive Science and Health”  
Castelldefels (near Barcelona), Spain**

<https://www.grc.org/mammalian-reproduction-conference/2024/>



**4-6 September 2024**

**ECA2024 – 13<sup>th</sup> European Congress of Andrology  
Stockholm, Sweden**

<https://eca2024.com/>

**Note: with the ANDRONET-EAA Conference for Andrologists and the Annual MC Meeting**



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