

Andronet News

Winter 2022/2023

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Dear ANDRONET Members,

After the Holiday Season at the end of 2022, followed by January 'hibernation', we are beginning to work towards the objectives of our Action. The extended Core Group held an online meeting on 14 February 2023. The Action leaders reviewed the current state of ANDRONET - it is clear that more active engagement of the members is needed. First, a gentle reminder to follow our communication routes:

- The ANDRONET website with the **Member Directory** has been running since a while, but only 42 members have established their profiles. Kindly do that at your earliest convenience! For help contact Judit Castillo (juditcastillo@ub.edu)
- Remember to follow our **Slack** ANDRONET platform, which is designed for internal communication: <https://eucostaction-andronet.slack.com/>

You are all welcome to come forward with ideas and input to the Working Groups (WG) activities. In particular, the **WG3 leader, Andrea Sansone** calls for new applicants to join WG3, and to help promoting male health, including translating the material into your languages. Please also inform him about any male health promoting activities in your community (contact Andrea via Slack or at andrea.sansone@uniroma2.it)

ANDRONET's main co-organized event in 2023



The **ANDRONET Workshop and Managing Committee (MC) meeting** will take place during the 22nd European Testis Workshop (ETW2023), preceded by the 15th NYRA meeting. The event is co-

organized by ANDRONET and will be held from **17 to 22 June in Caux Palace, near Montreux, Switzerland**. The Workshop is a "must" for scientists in the field of male reproduction. A unique ETW feature is that mini-posters (A4 size) rather than abstracts are submitted, and most of the participants will have a chance to present their work as short talks. ANDRONET will reimburse the travel and participation costs of 57-70 members (depending on the budget). If you want to take advantage of this generous support, select this option during your online registration at <https://etw2023.org/>. Your expenses will be reimbursed via your e-COST account after the meeting. Registration is now open! **Deadline for the "early-bird" registration and mini-poster submission: 31 March 2023.**

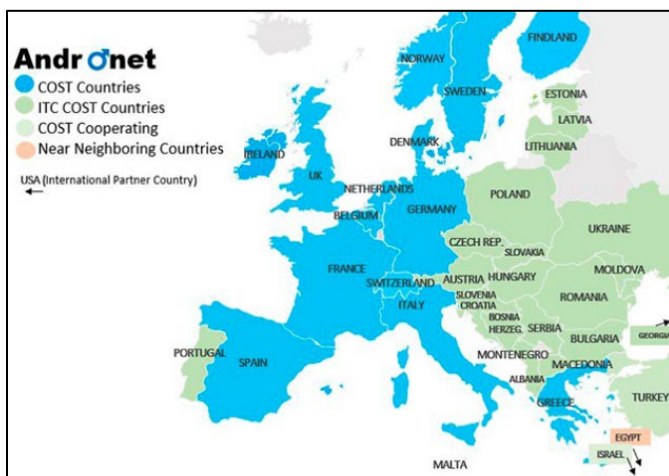
Call for short-term scientific missions (STSM)

The STSMs are exchange visits between research groups (up to 6 months), allowing scientists spending some time in an institution or laboratory in another COST Member state. The STSM aim is to improve collaboration between the research groups, including learning new techniques or sharing/analysing valuable materials or datasets. STSMs recipients will receive grants (up to **4000€**) covering travel, accommodation and subsistence expenses, and some costs of the implementation of the project. The successful applicants must deliver a report to the COST Action MC. The latest ANDRONET budget includes support for three STSM. If you plan to apply or have questions – contact the Grant Awarding Coordinator, Davor Ježek (davorjezek@yahoo.com). There are two **application deadlines** open for STSMs: **February 28**, and **May 31, 2023**.

Travel grants for members from ITC countries

If you are an early carrier ANDRONET investigator from one of the “Inclusiveness Target Countries” (ITC, *marked in green on the ANDRONET map*) you can be eligible for a generous travel grant. These grants are worth up to **2000€** each and cover the expenses of active participation in any relevant scientific conference. The applications including motivation and the CV should be submitted to the Grant Awarding Coordinator, Davor Ježek, before the **deadline: June 15, 2023**.

More information on the ANDRONET website: <https://www.andronet.cat/stsms/>



Science Corner

ANDRONET publications

We are delighted to announce the first ANDRONET publication, defined as containing authors who are ANDRONET members from at least two different countries:

de la Iglesia A, Jauregi P, Jodar M, Barrachina F, Ded L, Mallofré C, Rodríguez-Carunchio L, Corral JM, Ballescà JL, Komrskova K, Castillo J, Oliva R. H4K5 Butyrylation Coexist with Acetylation during Human Spermiogenesis and Are Retained in the Mature Sperm Chromatin. *Int J Mol Sci*. 2022 Oct 17; 23(20):12398. doi: 10.3390/ijms232012398.

Important: if you are a co-author on such an article, kindly remember to acknowledge ANDRONET COST Action with the following sentence: “This publication is also based upon work from COST Action CA20119 (ANDRONET) supported by European Cooperation in Science and Technology (www.cost.eu)”.

Other recent publications from the ANDRONET members

We highlight here selected publications which are relevant to the Action's objectives and can help you deciding on specific collaboration projects with other ANDRONET members. If you want to share your latest publications, please notify the Science Communication Coordinator.

WG1. Biomarkers of Infertility /Androgenetics

Nagirnaja L, Lopes AM, Charng W, Miller B, Stakaitis R, Golubickaite I, Stendahl A, Luan T, Friedrich C, Mahyari E, Fadial E, Kasak L, Vigh-Conrad K, Oud MS, Xavier MJ, Cheers SR, James ER, Guo J, Jenkins TG, Riera-Escamilla A, Barros A, Carvalho F, Fernandes S, Gonçalves J, Gurnett CA, Jørgensen N, Jezek D, Jungheim ES, Kliesch S, McLachlan RI, Omurtag KR, Pilatz A, Sandlow J, Smith J, Eisenberg ML, Hotaling JM, Jarvi KA, Punab M, Rajpert-De Meyts E, Carrell DT, Krausz C, Laan M, O'Bryan MK, Schlegel PN, Tüttelmann F, Veltman JA, Almstrup K, Aston KI, Conrad DF. Diverse Monogenic Subforms of Human Spermatogenic Failure. *Nature Commun* 2022, 13, 7953 (2022). <https://doi.org/10.1038/s41467-022-35661-z>

Barrachina F, de la Iglesia A, Jodar M, Soler-Ventura A, Mallofré C, Rodriguez-Carunchio L, Goudarzi A, Corral JM, Ballescà JL, Castillo J, Oliva R. Histone H4 acetylation is dysregulated in active seminiferous tubules adjacent to testicular tumours. *Hum Reprod*. 2022 Jul 30;37(8):1712-1726. doi: 10.1093/humrep/deac130. PMID: 35678707.

Jeřeta M, Franzová K, Machynová S, Kalina J, Kohoutek J, Mekiřnová L, Crha I, Kempisty B, Kařík M, řáková J, Ventruba P, Navrátilová J. The Bisphenol Found in the Ejaculate of Men Does Not Pass through the Testes. *Toxics*. 2022 Jun 9;10(6):311. doi: 10.3390/toxics10060311. PMID: 35736919.

Grande G, Barrachina F, Soler-Ventura A, Jodar M, Mancini F, Marana R, Chiloiro S, Pontecorvi A, Oliva R, Milardi D. The role of testosterone in spermatogenesis: lessons from proteome profiling of human spermatozoa in testosterone deficiency. *Front Endocrinol* (Lausanne). 2022 May 19;13:852661. doi: 10.3389/fendo.2022.852661.

Marić T, Wójcik I, Katušić Bojanac A, Matijević A, Ceppi M, Bruzzone M, Evgeni E, Petrović T, Trbojević-Akmačić I, Lauc G, Jeřek D, Fučić A. Seminal plasma N-glycome as a new biomarker of environmental exposure associated with semen quality. *Reprod Toxicol*. 2022;113:96-102. doi: 10.1016/j.reprotox.2022.08.005.

Siebert-Kuss LM, Krenz H, Tekath T, Wöste M, Di Persio S, Terwort N, Wyrwoll MJ, Cremers JF, Wistuba J, Dugas M, Kliesch S, Schlatt S, Tüttelmann F, Gromoll J, Neuhaus N, Laurentino S. Transcriptome analyses in infertile men reveal germ cell-specific expression and splicing patterns. *Life Sci Alliance*. 2022; 6(2):e202201633. Doi: 10.26508/lsa.202201633

Chan D, Oros Klein K, Riera-Escamilla A, Krausz C, O'Flaherty C, Chan P, Robaire B, Trasler JM. Sperm DNA methylome abnormalities occur both pre- and post-treatment in men with Hodgkin disease and testicular cancer. *Clin Epigenetics*. 2023 Jan 7;15(1):5. doi.org/10.1186/s13148-022-01417-1.

Szabó A, Váncsa S, Hegyi P, Váradi A, Forintos A, Filipov T, Ács J, Ács N, Szarvas T, Nyirády P, Kopa Z. Lifestyle-, environmental- and additional health factors associated with an increased sperm DNA fragmentation: a systematic review and meta-analysis. *Reprod Biol Endocrinol*. 2023 Jan 18;21(1):5.

Kikas T, Punab AM, Kasak L, Poolamets O, Vihlajev V, Pomm K, Reiman M, Tjagur S, Korrovits P, Punab M, Laan M. Microdeletions and microduplications linked to severe congenital disorders in infertile men. *Sci Rep*. 2023 Jan 11;13(1):574.

Hiort M, Rohayem J, Knaf R, Laurentino S, Berglund A, Gravholt CH, Gromoll J, Wistuba J. Testicular architecture of men with 46,XX testicular Disorders of Sex Development. *Sex Dev*. 2023 Feb 6. doi: 10.1159/000528955. Epub ahead of print. PMID: 36746123.

Emich J, Gaikwad AS, Stallmeyer B, Fietz D, Schuppe HC, Oud MS, Kliesch S, Gromoll J, Friedrich C, Tüttelmann F. Functional assessment of DMRT1 variants and their pathogenicity for isolated male infertility. *Fertil Steril*. 2023 Feb;119(2):219-228. doi: 10.1016/j.fertnstert.2022.10.032.

WG3. Male Health Awareness

Hansen LS, Priskorn L, Holmboe SA, Jensen TK, Hansen AH, Andersson AM, Jørgensen N. Testicular function is associated with cardiometabolic health markers: A cross-sectional study of 2289 young men. *Andrology*. 2023 Mar;11(3):561-574. doi: 10.1111/andr.13365.

Event Calendar

28 Feb -3 March 2023

4th EAA-ANDRONET Budapest School on Basic Clinical Andrology and Therapies in Male Infertility, Budapest, Hungary (*fully subscribed*)

Info: office@andrologyacademy.net



17 – 18 June 2023

15th Meeting of the Network of Young Researchers in Andrology (NYRA), Caux Palace, Montreux, Switzerland

Info: <https://nyra-youngresearch.eu/15th-nyra-meeting>



18 - 22 June 2023

2nd ANDRONET Workshop and 22nd European Testis Workshop, Caux Palace, Montreux, Switzerland

Info: <https://etw2023.org/>

25 - 28 June 2023

39th ESHRE Annual Meeting, Copenhagen, Denmark

Info: <https://www.eshre.eu/ESHRE2023>



9 - 13 October 2023

2nd ANDRONET-EAA Training School in Basic Semen Analysis, Stockholm, Sweden

Attention: Full travel reimbursement available for five ANDRONET members

Info: Lars Björndahl (Lars.Bjorndahl@ki.se)



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