

Andronet News

Autumn 2023



News from the Action Chair

Dear ANDRONET Members,

The second year of the Action has passed at the end of October 2023. I am happy to inform you that at the start of the third grant period we have a very good number of members - 291 from 42 countries, including 37 COST countries, 3 near-Neighbour Countries, 1 COST-cooperating member (Israel) and 1 international partner (USA), and the budget is in good standing. My main activity during the autumn months was the preparation of the annual report and budget for the next grant period (Nov 1, 2023 – Oct 31, 2024), which have been approved by the Management Committee and the COST administration. Thanks to all colleagues who have helped with this work.

As in previous years most of the budget will be devoted to helping the members attend important andrology meetings, especially the co-organization of different Andronet activities as part of the 13th European Congress of Andrology (ECA2024) in Stockholm, for which we will cover partial attendance costs of up to 85 members. We shall also continue providing support to members participating in the training schools co-organised with the European Academy of Andrology (EAA), as the one on Semen Analysis described in this newsletter. In addition, ANDRONET will increase support for Short Term Scientific Missions (STSM) and ITC grants, and in the 3rd grant period, we have approved 9 STSMs of 4000€ each and 2 ITC grants of 2000€ each. Potential applicants are encouraged to submit their applications to the Grant Awarding Coordinator as soon as possible.



With best wishes for a peaceful Holiday Season!

Rafael Oliva



Report from the ANDRONET-EAA Training School in Basic Semen Analysis

The second edition of this popular School was held at the ANOVA, Karolinska University Hospital and Karolinska Institutet, Stockholm, Sweden (October 9-13, 2023). ANOVA is world-famous for its expertise in spermatology. The programme of the course covered “Theory and training in basic semen examination according to WHO 2021 and ISO 23162:2021”, and the expert tutors were Lars Björndahl, and Magdalena Larsson Chatziantonis. This Training School includes intensive ‘hands on’ laboratory exercises, hence, the attendance was limited to seven participants: four from Sweden, two from Poland (ITC) and one from Serbia (ITC).

Recent andrology events in the Inclusiveness Target Countries (ITC)

- **24th “Andrology Day” Conference of the Polish Society of Andrology, 21-23 Sept 2023, Lublin, Poland**

The Polish Society of Andrology held its annual conference in a modern congress centre in Lublin, at the east of the country. The conference, organised by Szymon Bakalczuk and Artur Wdowiak (*pictured*), gathered more than 200 delegates from Poland and abroad, including several ANDRONET members. The scientific programme covered many aspects of clinical andrology and male reproductive biology. The ANDRONET's Extended Core Group was represented by Jolanta Slowikowska-Hilczer (Grant Awarding co-Coordinator) and Ewa Rajpert-De Meyts (Science Communication Coordinator). Ewa presented a summary of the ANDRONET activities and called for development and EAA accreditation of specialised andrology training centres in Poland, in addition to the existing EAA Centre in Lodz.



- **28th Symposium of Biology and Immunology of Reproduction (SBIR), 1-3 Oct 2023, Chateau Liblice, Czech Republic**

This successful annual Symposium is the main event on the field of reproduction in the Czech Republic. It was organised by Kateřina Komrsková (Czech Academy of Sciences), a member of the ANDRONET's Extended Core Group (ExtCG) and co-Leader of the Working Group 1 (Science Coordination).



Keynote lectures were presented by two members of the ANDRONET's ExtCG: Ewa Rajpert-De Meyts (Denmark) and Ana Katušić Bojanac (Croatia). Other speakers included Christiane Pleuger and Hiba Hasan (both from Giessen, Germany) and a selection of best experts in the field from the Czech Republic and Slovakia, including several ANDRONET members. The poster session allowed young participants to present their ongoing work. The scientific level of the conference was very high, and the beautiful venue and a lovely social programme stimulated networking.

Science Corner

Latest publications

We highlight here recent publications of the ANDRONET members, which are relevant for the Action's objectives, in particular those resulting from the collaboration initiated by the ANDRONET. The articles are listed in the order of publication, including a few earlier articles that were not reported in previous newsletters. If you want to share your latest publications, please notify one of the Science Communication Coordinators or post the reference directly on the Slack platform.

Reminder: 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 grant (e.g. for STSM or for presenting a mini-poster at the European Testis Workshop thanks to the reimbursement from ANDRONET), kindly remember to 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 centres:

Acknowledging ANDRONET:

Blanco M, El Khattabi L, Gobé C, Crespo M, Coulée M, de la Iglesia A, Ialy-Radio C, Lapoujade C, Givet M, Delessard M, Seller-Corona I, Yamaguchi K, Vernet N, Van Leeuwen F, Lermine A, Okada Y, Daveau R, Oliva R, Fouchet P, Ziyat A, Pflieger D, Cocquet J. DOT1L regulates chromatin reorganization and gene expression during sperm differentiation. *EMBO Rep.* 2023 Jun 5;24(6):e56316. doi: 10.15252/embr.202256316.

Wyrwoll MJ, van der Heijden GW, Krausz C, Aston KI, Kliesch S, McLachlan R, Ramos L, Conrad DF, O'Bryan MK, Veltman JA, Tüttelmann F. Improved phenotypic classification of male infertility to promote discovery of genetic causes. *Nat Rev Urol.* 2023 Sep 18. doi: 10.1038/s41585-023-00816-0.

Wang C, Meriggiola MC, Amory JK, Barratt CLR, Behre HM, Bremner WJ, Ferlin A, Honig S, Kopa Z, Lo K, Nieschlag E, Page ST, Sandlow J, Sitruk-Ware R, Swerdloff RS, Wu FCW, Goulis DG. Practice and development of male contraception: European Academy of Andrology and American Society of Andrology guidelines. *Andrology.* 2023 Sep 20. doi: 10.1111/andr.13525.

Castillo J, de la Iglesia A, Leiva M, Jodar M, Oliva R. Proteomics of human spermatozoa. *Hum Reprod.* 2023 Dec 4;38(12):2312-2320. doi: 10.1093/humrep/dead170.

Not acknowledging ANDRONET:

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Heald A, Cook MJ, Antonio L, Tournoy J, Ghaffari P, Mannan F, Fachim H, Vanderschueren D, Laing I, Hackett G, Casanueva FF, Huhtaniemi IT, Maggi M, Rastrelli G, Slowikowska-Hilcz J, Wu F, O'Neill TW. Number of CAG repeats and mortality in middle aged and older men. **Clin Endocrinol** 2023 Dec;99(6):559-565. doi: 10.1111/cen.14962. Epub 2023 Sep 18.

Kimmins S, Anderson RA, Barratt CLR, Behre HM, Catford SR, De Jonge CJ, Delbes G, Eisenberg ML, Garrido N, Houston BJ, Jørgensen N, Krausz C, Lisper A, McLachlan RI, Minhas S, Moss T, Pacey A, Priskorn L, Schlatt S, Trasler J, Trasande L, Tüttelmann F, Vazquez-Levin MH, Veltman JA, Zhang F, O'Bryan MK. Frequency, morbidity and equity - the case for increased research on male fertility. **Nat Rev Urol**. 2023 Oct 12. doi.org/10.1038/s41585-023-00820-4

Norello D, Rastrelli G, Antonio L, Bartfai G, Casanueva FF, Giwercman A, Huhtaniemi IT, O'Neill TW, Punab M, Slowikowska-Hilcz J, Tournoy J, Vanderschueren D, Wu FCW, Maggi M, Peri A. Hyponatremia, hypernatremia and impairment of functional, psychological and sexual domains. **J Endocrinol Invest**. 2023 Oct 26. doi: 10.1007/s40618-023-02218-w.

Schneider S, Kovacevic A, Mayer M, Dicke AK, Arévalo L, Koser SA, Hansen JN, Young S, Brenker C, Kliesch S, Wachten D, Kirfel G, Struenker T, Tüttelmann F, Schorle H. Cylicins are a structural component of the sperm calyx being indispensable for male fertility in mice and human. **Elife**. 2023 Nov 28;12:RP86100. doi: 10.7554/eLife.86100.

Kanakis GA, Pofi R, Goulis DG, Isidori AM, Armeni E, Erel CT, Fistonici I, Hillard T, Hirschberg AL, Meczekalski B, Mendoza N, Mueck AO, Simoncini T, Stute P, van Dijken D, Rees M, Lambrinoudaki I. EMAS position statement: Testosterone replacement therapy in older men. **Maturitas**. 2023 Dec;178:107854. doi.org/10.1016/j.maturitas.2023.107854

Esteves SC, Humaidan P, Ubaldi FM, Alviggi C, Antonio L, Barratt CLR, Behre HM, Jørgensen N, Pacey A, Simoni M, Santi D. APHRODITE criteria: Addressing male patients with hypogonadism and/or infertility owing to altered idiopathic testicular function, **Reprod BioMedicine Online** 2023, in press. doi:10.1016/j.rbmo.2023.103647

Other publications from ANDRONET members:

Malcher A, Graczyk Z, Bauer H, Stokowy T, Berman A, Smolibowski M, Blaszczyk D, Jedrzejczak P, Yatsenko AN, Kurpisz M. ESX1 gene as a potential candidate responsible for male infertility in nonobstructive azoospermia. **Sci Rep**. 2023 Oct 2;13(1):16563. doi.org/10.1038/s41598-023-43854-9

Holt R, Jorsal MJ, Yahyavi SK, Qin S, Juul A, Jørgensen N, Blomberg Jensen M. High-dose cholecalciferol supplementation to obese infertile men is sufficient to reach adequate vitamin D status. **Br J Nutr**. 2023 Oct 9:1-16. doi.org/10.1017/s0007114523002222.

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Rahban R, Senn A, Nef S, Rösli M. Association between self-reported mobile phone use and the semen quality of young men. **Fertil Steril**. 2023 Dec;120(6):1181-1192. doi: 10.1016/j.fertnstert.2023.09.009. Epub 2023 Nov 1.

Gregoire EP, De Cian MC, Migale R, Perea-Gomez A, Schaub S, Bellido-Carreras N, Stévant I, Mayère C, Neirijnck Y, Loubat A, Rivaud P, Sopena ML, Lachambre S, Linssen MM, Hohenstein P, Lovell-Badge R, Nef S, Chalmel F, Schedl A, Chaboissier MC. The -KTS splice variant of WT1 is essential for ovarian determination in mice. **Science**. 2023 Nov 3;382(6670):600-606. doi.org/10.1126/science.add8831

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Event Calendar

5-7 March 2024

5th EAA-ANDRONET Budapest School in Basic Andrology for Clinicians, Budapest, Hungary

Note: Early registration deadline 26 January 2024

<https://eaaschool.eu/>



11-14 March 2024

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

Note: Early registration deadline 1 Jan 2024, abstract deadline 1 Feb 2024



10th Copenhagen Workshop on
ENDOCRINE DISRUPTERS
2024 • March 11-14

12-15 March 2024

5th 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

39th Congress of the European Association of Urology (EAU), Paris, France

eaucongress.uroweb.org

EAU24

29 April – 2 May 2024

American Society of Andrology (ASA) Annual Congress, Denver, Colorado, USA

<https://andrologysociety.org/>



2–5 May 2024

27th North American Testis Workshop, Denver, Colorado, USA

<https://andrologysociety.org/testis-workshop/>



4-6 September 2024, *(save the dates!)*

ECA-2024 – 13th European Congress of Andrology, Stockholm, Sweden

<https://eca2024.com/>



13th European Congress of
ANDROLOGY
ECA Stockholm 2024

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

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