Winter 2024-2025



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News from the Action Chair

Dear ANDRONET Members,

This newsletter marks the beginning of the last year of our COST ANDRONET Action. That does not mean that we are slowing our efforts in bringing together the research community dealing with andrological issues, much to the contrary. We started the year with a joint Cost Innovation Grant proposal submission, stemming from several ANDRONET members, which will hopefully allow us to further develop the interactions built during the Action towards practical implementation.

Now is the time to look ahead to the initiatives where we are involved. The 1st NYRA-EAA-ANDRONET School of Omics is just around the corner. Moreover, the largest ANDRONET-supported event of the year, the European Testis Workshop, is open for registration. Of relevance, up to 100 ANDRONET members actively participating will be financially supported to attend the ETW this year.

Besides the ETW and NYRA meetings, a number of conferences and courses will take place in person and online in the next few months. As usual, you will be able to find them at the end of this newsletter.

Last, but not least, be sure to read the science corner, where you can find the latest publications from ANDRONET members. Congratulations to all and keep on the excellent work!

Rafael Oliva

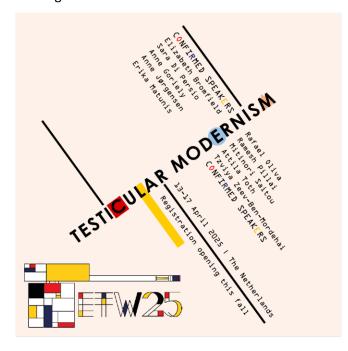
23rd European Testis Workshop and 17th NYRA meeting

The early bird period might have passed but participants can still register for the **23rd European Testis Workshop (ETW)** until the 17th of March 2025. Participants can submit miniposters until the 28th of February 2025. The meeting will take place in The Ruwenberg, close to St. Michielsgestel, in The Netherlands between 13th and 17th of April and is co-organised by ANDRONET. This will be our main event of the year and will be a great opportunity to meet colleagues and get up to date with the latest developments in andrological research. Up to 100 ANDRONET members actively participating in the meeting will be eligible for financial





reimbursement by ANDRONET, provided they click the corresponding box during the registration process. Expressions of interest for potential reimbursement by Andronet are still being collected (10 places still are available at the time of edition of this newsletter) and will be assigned on a first come first served basis as the main criteria until the 100 slots are covered.



Find out more about this year's edition of ETW by visiting their webpage:

https://event.wur.nl/etw2025/home



Location: The Ruwenberg, Ruwenbergstraat 7 5271 AG Sint-Michielsgestel, The Netherlands

As traditional since 2006, the ETW will be preceded by the **Network for Young Researchers in Andrology (NYRA) meeting**. Now in its 17th edition, the NYRA Meeting is the perfect venue for the next generation of andrological researchers to meet. The meeting will take place in the same venue as the ETW on the 12th and 13th of April 2025 and registration is open until the 21st of February.



More information about the NYRA meeting visit their webpage: https://nyra-voungresearch.eu/17th-nyra-meeting-12th-13th-april-2025-the-netherlands/





1st NYRA-EAA-ANDRONET School



The "Omics of male germ cells: Transcriptomic analyses" school, organised by NYRA together with European Academy Andrology (EAA) and ANDRONET, is the first of its kind and will take place in Copenhagen (Denmark) from the 24th to the 28th of February. This initiative aims to prepare young career scientists to the challenging task analysing transcriptomic data produced from testicular tissue. The participants will be able to learn tips and tricks from ANDRONET members who are experts in the field, in order to avoid common pitfalls and obtain trustworthy data.

Short-term scientific missions (STSM) and Inclusiveness Target Countries (ITC) travel grants

Funding for **STSMs** is still available for the third grant period (1st November 2024 to 31st October 2025). These grants allow ANDRONET researchers to visit the laboratories of other Action participants and support travelling, accommodation, and other expenses. Importantly, the scientific mission must be finished by the end of the funding period. During the previous granting period five young researchers were able to benefit from STSM grants and expand their horizons by establishing or strengthening collaborations within the ANDRONET network.

ITC travel grants are also available for the third funding period. These cover conference attendance, up to 1000€, of early career researchers (PhD students or post-docs < 8 years) from ITCs. The deadline for applying for one of these grants is the same as for STSMs and also in this case the conference must take place within the third granting period (i.e. until the 31st of October 2025).

For more information on the topic of STSMs and ITC travel grants please visit https://www.andronet.cat/stsms/ or contact the Grant Awarding Coordinator Dr. Davor Jezek (contact information available on the webpage).

News from ANDRONET members

The German Society for Andrology (DGA) met in Cologne for their annual meeting from 14th to 16th November 2024. The meeting included several presentations by Andronet members. This



year's DGA research stipend was awarded to ANDRONET member Dr. Leonie Herrmann from the Institute for Reproductive Genetics of the University of Münster.

Science Corner

Recent ANDRONET publications

The list below includes articles published since the previous Newsletter, covering the period from September 2024 to the end of January 2025, 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 ANDRONET 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 ANDRONET COST Action CA20119 support.

Collaborative publications with ANDRONET members from several countries:

Acknowledging ANDRONET:

Coulée M, de la Iglesia A, Blanco M, Gobé C, Lapoujade C, Ialy-Radio C, Alvarez-Gonzalez L, Meurice G, Ruiz-Herrera A, Fouchet P, Cocquet J, El Khattabi L. Chromatin environment-dependent effects of DOT1L on gene expression in male germ cells. *Commun Biol*. 2025 Jan 28;8(1):138. doi: 10.1038/s42003-024-07393-x.

Marić T, Castillo-Madeen H, Klarić ML, Barišić A, Trgovec-Greif L, Murphy MW, Juchnewitsch AG, Lillepea K, Dutta A, Žunić L, Stendahl AM, Punab M, Pomm K, Mendoza DM, Lopes AM, Šorgić AM, Vugrek O, Gonçalves J, Almstrup K, Aston KI, Belužić R, Ježek D, Bertoša B, Laan M, Bojanac AK, Conrad DF, Barbalić M. Diminished DNA binding affinity of DMRT1 caused by heterozygous DM domain mutations is a cause of male infertility. *Hum Mol Genet*. 2025 Jan 8:ddae197. doi: 10.1093/hmg/ddae197.

Sanovec O, Frolikova M, Kraus V, Vondrakova J, Qasemi M, Spevakova D, Simonik O, Moritz L, Caswell DL, Liska F, Ded L, Cerny J, Avidor-Reiss T, Hammoud SS, Schorle H, Postlerova P, Steger K, Komrskova K. Protamine 2 deficiency results in Septin 12 abnormalities. *Front Cell Dev Biol*. 2024 Oct 25;12:1447630. doi: 10.3389/fcell.2024.1447630.

Not acknowledging ANDRONET:

Berglund A, Johannsen EB, Skakkebæk A, Chang S, Rohayem J, Laurentino S, Hørlyck A, Drue SO, Bak EN, Fedder J, Tüttelmann F, Gromoll J, Just J, Gravholt CH. Integration of long-read sequencing, DNA methylation and gene expression reveals heterogeneity in Y chromosome segment lengths in phenotypic males with 46,XX testicular disorder/difference of sex development. *Biol Sex Differ*. 2024 Oct 8;15(1):77.

Brattig-Correia R, Almeida JM, Wyrwoll MJ, Julca I, Sobral D, Misra CS, Di Persio S, Guilgur LG, Schuppe HC, Silva N, Prudêncio P, Nóvoa A, Leocádio AS, Bom J, Laurentino S, Mallo M, Kliesch S, Mutwil M, Rocha LM, Tüttelmann F, Becker JD, Navarro-Costa P. The conserved genetic program of male germ cells uncovers ancient regulators of human spermatogenesis. *eLife*. 2024 Oct 10;13:RP95774. doi: 10.7554/eLife.95774.

Delgouffe E, Paturlanne JM, Kovacevic A, Keselj I, Ammar O, Gaikwad AS, Saritas G, Egeberg D, Marcu D, de la Iglesia A. From spermatogonia to spermatozoa: Filling gaps in andrology at the 16th Network of Young Researchers in Andrology meeting. *Andrology*. 2024 Sep 20. doi: 10.1111/andr.13763.





Delgouffe E, Silva SM, Chalmel F, Cools W, Raets C, Tilleman K, T'Sjoen G, Baert Y, Goossens E. Partial rejuvenation of the spermatogonial stem cell niche after gender-affirming hormone therapy in trans women. *eLife*. 2025 Jan 7;13:RP94825. doi: 10.7554/eLife.94825.

Other publications from ANDRONET members:

Acknowledging ANDRONET:

von Rohden E, Jensen CFS, Andersen CY, Sønksen J, Fedder J, Thorup J, Ohl DA, Fode M, Hoffmann ER, Mamsen LS. Male fertility restoration: in vivo and in vitro stem cell-based strategies using cryopreserved testis tissue: a scoping review. *Fertil Steril*. 2024 Nov;122(5):828-843. doi: 10.1016/j.fertnstert.2024.07.010.

Jodar M, Barral Y, Leiva M, Castillo J, Barrio R, Agustí I, Borràs A, Carrillo P, Matheu R, Ferreti R, Herrero J, Reimundo P, Navero-Castillejos J, Casals G, Guimerà M, Corral JM, Martinez M, Carbonell M, Bassas L, Manau D, Oliva R. Reversible effects of the SARS-CoV-2 on semen parameters. Syst Biol Reprod Med. 2024 Dec;70(1):261-271. doi: 10.1080/19396368.2024.2390514.

Not acknowledging ANDRONET:

Akbari A, Kasak L, Laan M. Introduction to androgenetics: terminology, approaches, and impactful studies across 60 years. *Andrology*. 2025 Jan 8. doi: 10.1111/andr.13835.

Andreassen CH, Holt R, Juel Mortensen L, Knudsen NK, Nielsen JE, Poulsen NN, Yahyavi SK, Boisen IM, Cui Z, Ongaro L, Hjerresen JP, Toft BG, Hasselager T, Jørgensen NR, Bernard DJ, Juul A, O'Brien C, Jørgensen A, Blomberg Jensen M. Denosumab stimulates spermatogenesis in infertile men with preserved Sertoli cell capacity. *Cell Rep Med*. 2024 Oct 3:101783. doi.org/10.1016/j.xcrm.2024.101783

Burton J, Rounge TB, Haugen TB, Wojewodzic MW. Networks of pre-diagnostic circulating RNA in testicular germ cell tumour. *Sci Rep*. 2025 Jan 14;15(1):1910. doi: 10.1038/s41598-024-84484-z.

Bush SJ, Goriely A. Can the male germline offer insight into mammalian brain size expansion? *Andrology*. 2024 Sep 18. doi: 10.1111/andr.13766.

Das M, Gumssani M, Mullaney J, Henkel R, Minhas S, Aquilina MC, Jayasena CN. Association of leukocyte elastase in semen and seminal plasma with sperm parameters and pregnancy outcomes in male fertility. *Endocr Connect*. 2025 Jan 27;14(2):e240571. doi: 10.1530/EC-24-0571.

Donald DM, McDonnell T, O'Reilly MW, Sherlock M. Replacement with sex steroids in hypopituitary men and women: implications for gender differences in morbidities and mortality. *Rev Endocr Metab Disord*. 2024 Oct;25(5):839-854. doi: 10.1007/s11154-024-09897-7.

Draskau MK, Strand IW, Davila RA, Ballegaard AR, Pedersen M, Ramhøj L, Rising S, Tran KM, Axelstad M, Bowles J, Rosenmai AK, Spiller CM, Svingen T. Perinatal exposure to environmental chemicals that disrupt thyroid function can perturb testis development. *Environ Pollut*. 2024 Oct 14;363(Pt 1):125117. https://doi.org/10.1016/j.envpol.2024.125117

Errico A, Ambrosini G, Vinco S, Bottani E, Dalla Pozza E, Marroncelli N, Brandi J, Cecconi D, Decimo I, Migliorini F, Zampieri N, Dando I. In vitro effect of hCG on cryptorchid patients' gubernacular cells: a predictive model for adjuvant personalized therapy. *Cell Commun Signal*. 2025 Jan 10;23(1):19. doi: 10.1186/s12964-024-01979-y

Gül S, Vloeberghs V, Gies I, Goossens E. Testicular mosaicism in non-mosaic postpubertal Klinefelter patients with focal spermatogenesis and in non-mosaic prepubertal Klinefelter boys. *Hum Reprod*. 2024 Oct 1;39(10):2210-2220. doi.org/10.1093/humrep/deae192

Harrer A, Ghatpande N, Grimaldini T, Fietz D, Kumar V, Pleuger C, Fijak M, Föppl DT, Rynio LP, Schuppe HC, Pilatz A, Bartkuhn M, Procida-Kowalski T, Guttmann-Raviv N, Bhushan S, Meyron-Holtz EG,





Meinhardt A. Iron regulatory protein 1-deficient mice exhibit hypospermatogenesis. *J Biol Chem*. 2025 Jan;301(1):108067. doi: 10.1016/j.jbc.2024.108067.

Kearney E, Greenald D, Matilionyte G, Lane S, Tharmalingam MD, Davies J, Stukenborg JB, Forsyth G, Mitchell RT. Germ cell quantification in human fetal and prepubertal testis tissues - a comparison of current methodologies. *Reprod Fertil*. 2025 Jan 1:RAF-24-0116. doi: 10.1530/RAF-24-0116.

Lanzi V, Indirli R, Tripodi A, Clerici M, Bonomi M, Cangiano B, Petria I, Arosio M, Mantovani G, Ferrante E. Testosterone Therapy Does Not Affect Coagulation in Male Hypogonadism: A Longitudinal Study Based on Thrombin Generation. *J Clin Endocrinol Metab*. 2024 Nov 18;109(12):3186-3195.

Lindskog C, Hikmet F, et al et Forsberg M, Stukenborg JB, Uhlén M. A spatiotemporal atlas of human spermatogenesis, 17 January 2025, **PREPRINT** (Version 1) available at **Research Square** [https://doi.org/10.21203/rs.3.rs-5594800/v1]

Lorenz J, Eisenhardt C, Mittermair T, Kulle AE, Holterhus PM, Fobker M, Boenigk W, Nordhoff V, Behre HM, Strünker T, Brenker C. The sperm-specific K+ channel Slo3 is inhibited by albumin and steroids contained in reproductive fluids. *Front Cell Dev Biol*. 2024 Aug 29;12:1275116. doi: 10.3389/fcell.2024.1275116.

Mowla S, Farahani L, Tharakan T, Davies Gonçalo R, DS Correia, Lee YS, Kundu S, Khanjani S, Sindi E, Rai R, Regan L, Khalifa D, Henkel R, Minhas S, et al et MacIntyre DA, Jayasena CN. Characterisation and comparison of semen microbiota and bacterial load in men with infertility, recurrent miscarriage, or proven fertility. *eLife* 2024 13:RP96090, https://doi.org/10.7554/eLife.96090.2

Narinx N, Marriott RJ, Murray K, Adams RJ, Ballantyne CM, Bauer DC, Bhasin S, Biggs ML, Cawthon PM, Couper DJ, Dobs AS, Flicker L, Hankey GJ, Hannemann A, Wilkening R, Martin SA, Matsumoto AM, Ohlsson C, O'Neill TW, Orwoll ES, Shores MM, Steveling A, Travison TG, Wittert GA, Wu FCW, Antonio L, Vanderschueren D, Yeap BB. Sociodemographic, lifestyle, and medical factors associated with calculated free testosterone concentrations in men: individual participant data meta-analyses. *Eur J Endocrinol*. 2024 Oct 29;191(5):523-534.

Rocca MS, Pannella M, Bayraktar E, Marino S, Bortolozzi M, Di Nisio A, Foresta C, Ferlin A. Etraonadal function of follicle-stimulating hormone: evidence for a role in endothelial physiology and dysfunction. *Mol Cell Endocrinol*. 2024 Sep 25:112378. https://doi.org/10.1016/j.mce.2024.112378

Ruf CG, Hochmuth-Tisch J, Salzbrunn A, Matthies C, Cordes T, von Kopylow K, Wülfing C, Pichlmeier U, Soave A, Dieckmann KP. Pre-orchiectomy semen analysis in patients with testicular germ cell tumours and comparison with healthy men and with patients with other malignancies. *Urol Int*. 2025 Jan 6:1-17. doi: 10.1159/000543360.

Santi D, Corona G, Salonia A, Ferlin A. Current drawbacks and future perspectives in the diagnosis and treatment of male factor infertility, with a focus on FSH treatment: an expert opinion. *J Endocrinol Invest*. 2025 Jan 13. doi: 10.1007/s40618-024-02524-x.

Saritas G, Mørup N, Johannsen TH, Juul A, Aksglaede L, Winge SB, Almstrup K. Testicular histopathology and its association with germ cell numbers, serum concentrations of re-productive hormones, and semen quality. *Andrology*. 2024 Nov 21. doi: 10.1111/andr.13803.

Tamburrino L, Traini G, Ragosta ME, Dabizzi S, Vezzani S, Scarpa F, Vignozzi L, Baldi E, Marchiani S. Semen cryopreservation and storage in liquid nitrogen: Impact on chromatin compaction. *Andrology*. 2024 Nov 29. Epub ahead of print. doi.org/10.1111/andr.13806

Tebbakh C, Barbotin AL, Martinez G, Boursier A, Wehbe Z, Hammouda A, Thierry-Mieg N, Arnoult C, Mustapha SFB, Zouari R, Ray PF, Kherraf ZE. A recurrent loss-of-function variant in DRC1 causes non-syndromic severe asthenozoospermia with favorable intracytoplasmic sperm injection and pregnancy outcomes. *Andrology*. 2025 Jan 8. doi: 10.1111/andr.13837.





Tuulari JJ, Bourgery M, Iversen J, Koefoed TG, Ahonen A, Ahmedani A, Kataja EL, Karlsson L, Barrès R, Karlsson H, Kotaja N. Exposure to childhood maltreatment is associated with specific epigenetic patterns in sperm. *Mol Psychiatry*. 2025 Jan 3. doi: 10.1038/s41380-024-02872-3.

Walczak-Jędrzejowska R, Niedzielski J, Slowikowska-Hilczer J, Nowak M, Marchlewska K. Hormonal Function of Undescended Testes Before Orchidopexy in Prepubertal Boys. *J Clin Med*. 2024 Dec 27;14(1):73.

Yahyavi SK, Holt R, Jorsal MJ, Árting LB, Eldrup E, Juul A, Jørgensen N, Blomberg Jensen M. Influence of cholecalciferol supplementation on changes in total 25OHD, free 25OHD, and free 25OHD % in relation to calcium, bone, and glucose homeostasis in young, infertile men. *J Steroid Biochem Mol Biol*. 2024 Nov 20;246:106640.

Yahyavi SK, Wall-Gremstrup G, Probst-Drejer B, Toft FB, Jorsal MJ, Holt R, Aksglaede L, Jørgensen N, Juul A, Blomberg Jensen M. Hypophosphatemia is a frequent finding in infertile men and is associated with low motile sperm count. *Hum Reprod*. 2024 Dec 31:deae293. doi: 10.1093/humrep/deae293.

Call for Junior Research Group Leaders:

The Münster Medical Faculty, through its Interdisciplinary Centre for Clinical Research (IZKF), is recruiting several Junior Research Group Leaders. This is directed at researchers who have completed their PhD no longer than 6 years ago (with discounts given for parental leave and long term illness, for example). The positions come with a very attractive funding package. Considering Münster's strong focus in Andrology and Male Infertility research (as can be attested by the many ANDRONET members), this call is highly suitable for establishing a new research group in this field. Interested candidates should contact one of the Münster-based senior ANDRONET members prior to submitting an application, namely the Science Communication coordinator Sandra Laurentino (sandra.laurentino@ukmunster.de), who will be happy to coordinate efforts and assist in preparing a strong application in order to maximise the chances of success.

Deadline for applications: 10th March 2025. More information here: https://www.medizin.uni-muenster.de/en/izkf/foerderung/izkf-junior-research-group.html

Event Calendar

12th February 2025, 14:00-18:30 (CET)

EAA Webinar – Essentials of infectious and inflammatory disorders in andrology

This webinar will be hosted by the Giessen and Bonn training centres and a link to the Zoom room will be sent to EAA members ahead of the meeting.

4th March 2025. 11:00-12:30 (CET)

Webinar - Publishing Research from your COST Action on Open Research Europe

COST Actions can submit their network outputs to Open Research Europe (ORE), the European Commission's Open Access publishing platform for research. If you want to know more, you can join an introductory webinar with representatives from ORE, who will present this platform in detail and answer any questions.







Registration and more information here: https://bit.ly/4avOcvi

4th - 6th March 2025

EAA Budapest School

The EAA Budapest School, in its 6th edition, is co-organised with ANDRONET and will gather renowned names in andrology for 3 days. Registrations are still open.

More information on the meeting, as well as programme and registration, can be found

here: https://asszisztencia.hu/eaaschool/welcome.htm

Budapest, Hungary



29th March - 1st April 2025

ASA & ICA 2025

Under the moto "Five decades of inspiring discoveries for Men's Health", the joint Congress of the America Society of Andrology & International Congress of Andrology meeting will take place this



spring in Washington, D.C. in the USA. The registration is still open.

https://ica-asa2025.com/

Washington, D.C., USA

9th May 2025

International Workshop – Andrology and Reproductive Medicine

The EAA Latvian Andrology centre iVF Riga Holding is organising this workshop, focusing on male reproductive health. The workshop will be held in English and will include participants from all over Europe. CME points will be granted to participants.

For more information visit:

https://ivfriga.lv/en/participation-inprojects/the-international-workshopandrology-and-reproductive-medicine/

Riga, Latvia



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