

Andronet News

Spring 2024

From the Action Chair

It is my pleasure to announce a change in the Science Communication Coordination Committee. Ewa Rajpert-De Meyts and Sandra Laurentino swapped their positions, so now Sandra is the Coordinator. Sandra has proven a very active and efficient group member, keeping Andronet's social media buzzing, especially during our events. Ewa will keep helping her with newsletters. If you have something to announce – kindly contact Sandra.



Sandra Laurentino

Please remember the two important Andronet events that will take place at the European Congress of Andrology (ECA2024) in Stockholm: the EAA-ANDRONET co-organized Course and the annual MC meeting, open to all participants. There are still 25 reimbursement places available so please consider signing up soon (the early bird registration ends July 15). Read the section on ECA2024 below for more details on this initiative.

We wish you a good summer break and hope to see you in Stockholm in early September!

Rafael Oliva

IN THIS ISSUE

- ❖ Change in the Science Communication Coordination leadership
- ❖ News from Andronet members
- ❖ Andronet Course for Andrologists & MC Meeting at ECA 2024
- ❖ Science Corner – recent publications
- ❖ Event Calendar

News from Andronet members

We are happy to share great news about the awards and recognition recently received by our members and to announce other initiatives.

The Endocrine Society (USA) Early Investigation Award 2024

The Endocrine Society (USA) announced in April the five early career endocrinologists who received the Early Investigation Awards. We are delighted that **Leen Antonio (Leuven, Belgium)**, the leader of Andronet'WG3, is among the recipients. Congratulations!



Leen Antonio

Special lectures at the American Society of Andrology (ASA) Annual Conference and North American Testis Workshop 2024

Two Andronet members presented high profile plenary lectures at the ASA Annual Conference and the North American Testis Workshop (NATW), which were held 29 April-5 May 2024 in Denver, Colorado (USA). **Kristian Almstrup, (Copenhagen, Denmark)**, member of the extended Core Group and WG1, delivered the **EAA Lecture** "*Molecular evolution of spermatogenesis and its possible implications for human semen quality*".



Serge Nef

Andronet member **Serge Nef (Geneva, Switzerland)**, the main organizer of the memorable ETW2023 in Montreux, presented the opening **Keynote Lecture** at the NATW entitled "*Studying neglected cell populations of the developing testis and their functions*". Congratulations to both!



Kristian Almstrup & Maris Laan

Call for contributions to Book on AI

Eriona Çela (member from Albania), is editing a book titled **Next-Generation AI Methodologies in Education**. The book focuses on the intersection of artificial intelligence (AI) and educational practices and is open for chapter submission. If you interested to contribute, contact Eriona Çela directly (erionacela@unyt.edu.al).

ECA2024: ANDRONET's main event in 2024



The **ECA2024** will take place on **4-6 September 2024**. The **ANDRONET-EAA Co-organised Conference and Course for Andrologists: *What should the andrologist know in 2024?*** 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 and the MC meeting on Thursday, 5th Sept. ANDRONET will reimburse the partial travel costs including long-distance travel plus 2-3 daily allowances (≈1000€) of around 125 members. There are still 25 reimbursement places available, which will be assigned by order of application until completed. A requirement to be considered is to have registered to this congress and participate in one of the ANDRONET activities. Therefore, if you have not yet registered to the European Congress of Andrology (ECA2024) – hurry up – the registration rate will increase on **July 15!** All information is available on the ECA's website: eca2024.com

Recent ANDRONET publications

The list below includes articles published since the previous Newsletter, covering the period March-early June 2024. If you want to share your latest publications, please notify the Science Communication Coordinator or post the reference on the Slack platform.

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:

David K, De Vincentis S, Antonio L. Impact of hyperprolactinemia on sexual function. *J Sex Med.* 2024 Feb 27;21(3):197-199. doi: 10.1093/jsxmed/qdad177.

Winge SB, Skakkebaek NE, Aksglaede L, Saritaş G, Rajpert-De Meyts E, Goossens E, Juul A, Almstrup K. Loss of the extra X chromosome rescues Sertoli cell maturation and spermatogenesis in the testis of men with 47,XXY Klinefelter syndrome. *Cell Death & Disease* 2024 Jun 5;15(6):396, [10.1038/s41419-024-06792-6](https://doi.org/10.1038/s41419-024-06792-6)

Collaborative publications initiated outside ANDRONET:

Anand-Ivell R, Heng K, Antonio L, Bartfai G, Casanueva FF, Maggi M, O'Neill TW, Punab M, Rastrelli G, Slowikowska-Hilczer J, Tournoy J, Vanderschueren D, Wu FC, Huhtaniemi IT, Ivell R. Insulin-like peptide 3 (INSL3) as an indicator of leydig cell insufficiency (LCI) in Middle-aged and older men with hypogonadism: reference range and threshold. *Aging Male.* 2024; 27(1):2346322. <https://doi.org/10.1080/13685538.2024.2346322>

De Jonge CJ, Barratt CRJ, Aitken RJ, Anderson RA, Baker P, Chan DYL, Connolly MP, Eisenberg ML, Garrido N, Jørgensen N, Kimmins S, Krausz C, McLachlan RI, Niederberger C, O'Bryan M, Pacey A, Priskorn L, Rautakallio-Hokkanen S, Serour G, Veltman JA, Vogel DL, Vazquez-Levin MH. Current global status of male reproductive health. *Hum Reproduction Open,* 2024; hoae017, <https://doi.org/10.1093/hropen/hoae017>

Hasan H, Peng W, Wijayarathna R, Wahle E, Fietz D, Bhushan S, Pleuger C, Planinić A, Günther S, Loveland KL, Pilatz A, Ježek D, Schuppe HC, Meinhardt A, Hedger MP, Fijak M. Monocytes expressing activin A and CCR2 exacerbate chronic testicular inflammation by promoting immune cell infiltration. *Hum Reprod.* 2024 May 22;deae107. <https://doi.org/10.1093/humrep/deae107>

Islam R, Heyer J, Figura M, Wang X, Nie X, Nathaniel B, Indumathy S, Hartmann K, Pleuger C, Fijak M, Kliesch S, Dittmar F, Pilatz A, Wagenlehner F, Hedger M, Loveland B, Hotaling JH, Guo J, Loveland KL, Schuppe HC, Fietz D. T cells in testicular germ cell tumors: new evidence of fundamental contributions by rare subsets. *Br J Cancer.* 2024 Apr 22. <https://doi.org/10.1038/s41416-024-02669-9>

Juchnewitsch AG, Pomm K, Dutta A, Tamp E, Valkna A, Lillepea K, Mahyari E, Tjagur S, Belova G, Kübarsepp V, Castillo-Madeen H, Riera-Escamilla A, Pölluaas L, Nagirnaja L, Poolamets O, Vihljajev V, Sütt M, Versbraegen N, Papadimitriou S, McLachlan RI, Jarvi KA, Schlegel PN, Tennisberg S, Korrovits P, Vigh-Conrad K, O'Bryan MK, Aston KI, Lenaerts T, Conrad DF, Kasak L, Punab M, Laan M. Undiagnosed RASopathies in infertile men. *Front Endocrinol.* 2024 Apr 9;15:1312357. <https://www.frontiersin.org/journals/endocrinology/articles/10.3389/fendo.2024.1312357/full>

Lahtinen AK, Funke M, Krallmann C, Wyrwoll MJ, Jarisch A, Yang Y, Bjarnason R, Romerius P, Sundin M, Norén-Nyström U, Langenskiöld C, Cremers JF, Kliesch S, Stukenborg JB, Neuhaus N, Jahnukainen K. Decreased spermatogonial numbers in boys with severe haematological diseases. *Br J Haematol*. 2024 May 29. <https://doi.org/10.1111/bjh.19572>

Lillepea K, Juchnewitsch AG, Kasak L, Valkna A, Dutta A, Pomm K, Poolamets O, Nagirnaja L, Tamp E, Mahyari E, Vihljajev V, Tjagur S, Papadimitriou S, Riera-Escamilla A, Versbraegen N, Farnetani G, Castillo-Madeen H, Sütt M, Kübarsepp V, Tennisberg S, Korrovits P, Krausz C, Aston KI, Lenaerts T, Conrad DF, Punab M, Laan M. Toward clinical exomes in diagnostics and management of male infertility. *Am J Hum Genet*. 2024 Apr 12:S0002-9297(24)00086-7. <https://authors.elsevier.com/a/1ivySgeXA8fZ>

Other publications from ANDRONET members:

Not acknowledging ANDRONET:

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

Abildgaard J, Bang AK, Nordkap L, Priskorn L, Jørgensen N. The influence of body composition on the response to dynamic stimulation of the endocrine pituitary-testis axis. *Int J Obes* (Lond). 2024 Apr 12. <https://doi.org/10.1038/s41366-024-01518-2>

Brattig Correia R, Almeida JM, Wyrwoll MJ, Julca I, Sobral D, Shekhar Misra C, 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, 13: RP95774 (reviewed preprint). <https://doi.org/10.7554/eLife.95774.1>

Carlomagno F, Hasenmajer V, Spaziani M, Tenuta M, Sesti F, Tarantino C, Pozza C, Isidori AM, Gianfrilli D. Total osteocalcin levels are independently associated with worse testicular function and a higher degree of hypothalamic-pituitary-gonadal axis activation in Klinefelter syndrome. *J Endocrinol Invest*. 2024 May 21. doi: 10.1007/s40618-024-02390-7.

Dwyer AA, McDonald IR, Cangiano B, Giovanelli L, Maione L, Silveira LFG, Raivio T, Latronico AC, Young J, Quinton R, Bonomi M, Persani L, Seminara SB, Lee CS. Classes and predictors of reversal in male patients with congenital hypogonadotropic hypogonadism: a cross-sectional study of six international referral centres. *Lancet Diabetes Endocrinol*. 2024 Apr;12(4):257-266. [https://doi.org/10.1016/s2213-8587\(24\)00028-7](https://doi.org/10.1016/s2213-8587(24)00028-7)

Fischer MB, Mola G, Priskorn L, Scheel L, Hegaard HK, Sundberg K, Frederiksen H, Andersson AM, Juul A, Hagen CP. Longitudinal evaluation of fetal and infant AGD in healthy children: association with penile size, testosterone and DHT. *J Clin Endocrinol Metab*. 2024 May 18:dgae342. <https://doi.org/10.1210/clinem/dgae342>

Graziani A, Merico M, Grande G, Di Mambro A, Vinanzi C, Rocca MS, Selice R, Ferlin A. A cryptozoospermic infertile male with Y chromosome AZFc microdeletion and low FSH levels due to a simultaneous polymorphism in the FSHB gene: a case report. *Hum Reprod*. 2024 Mar 1;39(3):504-508. <https://doi.org/10.1093/humrep/dead277>

Holt R, Yahyavi SK, Wall-Gremstrup G, Jorsal MJ, Toft FB, Jørgensen N, Juul A, Jensen MB. Low Serum anti-Müllerian Hormone is Linked with Poor Semen Quality in Infertile Men Screened for Participation in an RCT. *Fertil Steril*. 2024 Mar 22:S0015-0282(24)00193-6.

Houston BJ, Merriner DJ, Stathatos GG, Nguyen JH, O'Connor AE, Lopes AM, Conrad DF, Baker M, Dunleavy JE, O'Bryan MK. Genetic mutation of *Cep76* results in male infertility due to abnormal sperm tail composition. *Life Sci Alliance*. 2024 Apr 3;7(6):e202302452. <https://doi.org/10.26508/lsa.202302452>

de la Iglesia A, Egeberg DL, Marcu D, Richer G, Houston BJ, Ammar O, Saritas G, Delgouffe E, Jezek D, Krausz C, Rajpert-De Meyts E, Behre HM. Leading at the vanguard of andrology: The Network for Young Researchers in Andrology joins forces with the European Academy of Andrology. *Andrology*. 2024 May;12(4):781-784. doi: 10.1111/andr.13633.

Koskela M, Virtanen HE, Rodprasert W, Jahnukainen K, Toppari J, Koskeniemi JJ. Pubertal testicular volume references for ruler, orchidometer, and ultrasonography measurements based on a longitudinal follow-up. *Andrology*. 2024 Mar 14. Epub ahead of print. <https://doi.org/10.1111/andr.13629>

Lecuyer GCV, Lardenois A, Chalmel F; Uro-oncogenomics Viewer Group. UncoVer: A Web-based Resource for Single-cell and Spatially Resolved Omics Data in Uro-oncology. *Eur Urol Oncol*. 2024 Apr 29:S2588-9311(24)00100-7. <https://doi.org/10.1016/j.euo.2024.04.008>

Muroňová J, Kherraf ZE, Giordani E, Lambert E, Eckert S, Cazin C, Amiri-Yekta A, Court M, Chevalier G, Martinez G, Neirijnck Y, Kühne F, Wehrli L, Klena N, Hamel V, De Macedo L, Escoffier J, Guichard P, Coutton C, Mustapha SFB, Kharouf M, Bouin AP, Zouari R, Thierry-Mieg N, Nef S, Geimer S, Loeuillet C, Ray PF, Arnoult C. Lack of CCDC146, a ubiquitous centriole and microtubule-associated protein, leads to non-syndromic male infertility in human and mouse. *Elife*. 2024 Mar 5;12:RP86845. doi: 10.7554/eLife.86845

Nowak M, Niedzielski J, Slowikowska-Hilczner J, Walczak-Jedrzejowska R, Marchlewska K. Undescended Testes Growth Potential in Relation to Testis Position from Diagnosis until Puberty. *J Clin Med*. 2024 Apr 29;13(9):2620. <https://doi.org/10.3390/jcm13092620>

Ridnik M, Abberbock E, Alipov V, Lhermann SZ, Kaufman S, Lubman M, Poulat F, Gonen N. Two redundant transcription factor binding sites in a single enhancer are essential for mammalian sex determination. *Nucleic Acids Res*. 2024 Mar 18:gkae178. <https://doi.org/10.1093/nar/gkae178>

Schäfer L, Cremers JF, Witschel B, Schüttfort V, Nieder TO, König F, Vetterlein MW, Gild P, Dahlem R, Fisch M, Kliesch S, Soave A. What do patients with Peyronie's disease expect from therapy? A prospective multi-center study. *Andrology*. 2024 May;12(4):821-829. <https://doi.org/10.1111/andr.13538>

Schülke LC, Wistuba J, Nordhoff V, Behre HM, Cremers JF, Kliesch S, Di Persio S, Neuhaus N. Identification of two hidden clinical subgroups among men with idiopathic cryptozoospermia. *Hum Reprod*. 2024 May 2;39(5):892-901. <https://doi.org/10.1093/humrep/deae013>

Siebert-Kuss LM, Dietrich V, Di Persio S, Bhaskaran J, Stehling M, Cremers JF, Sandmann S, Varghese J, Kliesch S, Schlatt S, Vaquerizas JM, Neuhaus N, Laurentino S. Genome-wide DNA methylation changes in human spermatogenesis. *Am J Hum Genet*. 2024 May 11:S0002-9297(24)00132-0. <https://doi.org/10.1016/j.ajhg.2024.04.017>

Vasseur C, Serra L, El Balkhi S, Lefort G, Ramé C, Froment P, Dupont J. Glyphosate presence in human sperm: First report and positive correlation with oxidative stress in an infertile French population. *Ecotoxicol Environ Saf*. 2024 Jun 15;278:116410. <https://doi.org/10.1016/j.ecoenv.2024.116410>

Zitzmann M, Cremers JF, Krallmann C, Soave A, Kliesch S. Testosterone therapy in men with classical versus functional hypogonadism: results from a controlled 9-years, real-world registry study. *Andrology*. 2024 Mar 15. <https://doi.org/10.1111/andr.13626>

Event Calendar

7–10 July 2024

40th ESHRE Annual Meeting
Amsterdam, The Netherlands
<https://www.eshre.eu/ESHRE2024>



15–19 July 2024

57th 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 (Barcelona), Spain

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



**Gordon Research
Conferences**
Frontiers of Science

4-6 September 2024

ECA2024 – 13th European Congress of Andrology, and ANDRONET -

EAA Co-organised Course for Andrologists and the MC Meeting

Stockholm, Sweden <https://eca2024.com/>

Note: Standard registration deadline: 15 July 2024



9-11 October 2024

10th European Testicular Tumor Workshop (ETTW)

Prague, Czech Republic, <https://www.ettw.eu/homepage>

Note: Abstract submission deadline: 30 June 2024



30 October-1 November 2024

92nd Harden Conference: Germ Cell Cancer Genes

Solihull (Birmingham), UK

<https://www.eventsforce.net/biochemsoc/205/home>

Note: Abstract submission deadline: 30 August 2024



**BIOCHEMICAL
SOCIETY**

29 March –1 April 2025

Joint 50th ASA Annual Meeting & 13th ISA Congress

Washington, DC, USA

<https://andrologysociety.org/annual-meeting/>



Newsletter Editors: Sandra Laurentino & Ewa Rajpert-De Meyts

ANDRONET Science Communication Coordinators

Contact: Sandra.Laurentino@ukmuenster.de

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