

Agne. Professor, Märtsijänes ja ema

Velthut-Meikas, Agne; Laiapea, Vahur postimees.ee 2025 [Agne. Professor. Märtsijänes ja ema](#)

Association between chemical mixtures and female fertility in women undergoing assisted reproduction in Sweden and Estonia

Bellavia, Andrea; Zou, Runyu; Bjorvang, Richelle D.; **Roos, Kristine**; Sjunnesson, Ylva; Hallberg, Ida; Vermeulen, Roel; Salumets, Andres; **Velthut-Meikas, Agne**; Damdimopoulou, Paulina Environmental research 2023 / art. 114447, 14 p. : ill

<https://doi.org/10.1016/j.envres.2022.114447> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bovine follicular fluid and extracellular vesicles derived from follicular fluid alter the bovine oviductal epithelial cells transcriptome

Hasan, Mohammed Mehedi; Viil, Janeli; Lättekivi, Freddy; Ord, James; Reshi, Qurat Ul Ain; Jääger, Kersti; **Velthut-Meikas, Agne**; Androwska, Aneta; Jaakma, Ülle; Salumets, Andres; Fazeli, Alireza International journal of molecular sciences 2020 / art. 5365 ; 16 p. : ill <https://doi.org/10.3390/ijms21155365> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bovine sperm plasma membrane proteomics through biotinylation and subcellular enrichment

Kasvandik, Sergio; Sillaste, Gerly; **Velthut-Meikas, Agne**; Mikelsaar, Aavo-Valdur; Hallap, Triin; Padrik, Peeter; Tenson, Tanel; Jaakma, Ülle; Kõks, Sulev; Salumets, Andres Proteomics 2015 / p. 1906 - 1920 <https://doi.org/10.1002/pmic.201400297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cellular, extracellular and extracellular vesicular miRNA profiles of pre-ovulatory follicles indicate signaling disturbances in polycystic ovaries

Rooda, Ilmatar; Hasan, Mohammed Mehedi; **Roos, Kristine**; Viil, Janeli; **Smolander, Olli-Pekka**; **Velthut-Meikas, Agne**

International journal of molecular sciences 2020 / art. 9550, 23 p. : ill <https://doi.org/10.3390/ijms21249550> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Complexity of human ovarian folliculogenesis : molecular markers of ovarian-based infertility and the impact of endocrine-disrupting chemicals = Inimese munasarja follikulogeneesi keerukus : munasarjapõhise viljatuse molekulaarsed markerid ja endokriinsüsteemi mõjutavate kemikaalide toime

Rosenberg, Kristine 2024 <https://digikogu.taltech.ee/et/Item/b5bf60bf-a458-4fee-a796-a61f00a243c9>

https://www.ester.ee/record=b5700249*est <https://doi.org/10.23658/taltech.52/2024>

Comprehensive elucidation of amino acid profile in human follicular fluid and plasma of in vitro fertilization patients

Kirsipuu, Tiina; **Laks, Katrina**; **Velthut-Meikas, Agne**; Levkov, Lev; Salumets, Andres; **Palumaa, Peep** Gynecological

endocrinology 2015 / p. 9-17 : ill <https://doi.org/10.3109/09513590.2015.1085186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Doktoritöö: mikroRNA mängib viljakuse tagamisel arvatust tähtsamat rolli [Võrguväljaanne]

Velthut-Meikas, Agne novaator.err.ee 2021 [Doktoritöö: mikroRNA mängib viljakuse tagamisel arvatust tähtsamat rolli](#)

Endometrial receptivity revisited : endometrial transcriptome adjusted for tissue cellular heterogeneity

Suhorutshenko, Marina; Kukushkina, Viktorija; **Velthut-Meikas, Agne**; Altmäe, Signe; Peters, Maire; Mägi, Reedik; Krjutškov, Kaarel; Koel, Mariann; Codoñer, Francisco M.; Martinez-Blanch, Juan Fco Human reproduction 2018 / 12 p. : ill

<https://doi.org/10.1093/humrep/dey301> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Epidemiologically relevant phthalates affect human endometrial cells in vitro through cell specific gene expression changes related to the cytoskeleton and mitochondria

Visser, Nadja; Silva, Antero Vieira; Tarvainen, Ilari; Damdimopoulos, Anastasios; Davey, Eva; **Roos, Kristine**; Björvang, Richelle D.; Kallak, Theodora Kunovac; Lager, Susanne; Lavogina, Darja; Laws, Mary; Piltönen, Terhi; Salumets, Andres; Flaws, Jodi A.; Öberg, Mattias; **Velthut-Meikas, Agne** Reproductive toxicology 2024 / art. 108660 <https://doi.org/10.1016/j.reprotox.2024.108660> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Heterogeneity of preovulatory follicle cell types between normo- and hyporesponders

Roos, Kristine; **Rooda, Ilmatar**; **Keif, Robyn-Stefany**; **Liivrand, Maria**; Salumets, A.; **Smolander, Olli-Pekka Aukusti**; **Velthut-Meikas, Agne**; **Liivrand, Maria** Human Reproduction : ESHRE 2022 : abstracts 2022 / art. P-595

<https://doi.org/10.1093/humrep/deac105.053>

High-throughput sequencing approach uncovers the miRNome of peritoneal endometriotic lesions and adjacent healthy tissues

Saare, Merli; Rekker, Kadri; Laisk-Podar, Triin; Sõritsa, Deniss; Roost, Anne Mari; **Simm, Jaak**; **Velthut-Meikas, Agne**; Samuel, Külli; Metsalu, Tauno; Karro, Helle PLoS ONE 2014 / art. e112630, 9 p. : ill <https://doi.org/10.1371/journal.pone.0112630> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hsa-mir-548 family expression in human reproductive tissues

Rooda, Ilmatar; **Kaselt, Birgitta**; **Liivrand, Maria**; **Smolander, Olli-Pekka**; Salumets, Andres; **Velthut-Meikas, Agne** BMC

Genomic Data 2021 / Art. 40 <https://doi.org/10.1186/s12863-021-00997-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)

Identification of phthalate mixture exposure targets in the human and mouse ovary in vitro

Tarvainen, Ilari; Soto, Delia A.; Laws, Mary J.; Björvang, Richelle D.; Damdimopoulos, Anastasios; **Roos, Kristine**; Li, Tianyi; Kramer, Stav; Li, Zhong; **Velthut-Meikas, Agne** Reproductive toxicology 2023 / art. 108393, 13 p. : ill

<https://doi.org/10.1016/j.reprotox.2023.108393> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In-depth analysis of transcriptomes in ovarian cortical follicles from children and adults reveals interfollicular heterogeneity

Rooda, Ilmatar; Hassan, Jasmin; Hao, Jie; Wagner, Magdalena; Moussaud-Lamodièrre, Elisabeth; Jääger, Kersti; Ojala, Marjut; Knuus, Katri; Lindskog, Cecilia; Velthut-Meikas, Agne Nature communications 2024 / art. 6989 <https://doi.org/10.1038/s41467-024-51185-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Intercellular signalling in the human pre-ovulatory follicle : microRNA expression in granulosa cells and detection in the follicular fluid = Rakkudevaheline kommunikatsioon inimese munasarja preovulatoorses folliikulis : mikroRNA-de ekspressioon granuloosrakkudes ja follikulaarvedelikus

Rooda, Ilmatar 2021 https://www.eester.ee/record=b5470472*est <https://digikogu.taltech.ee/et/Item/d09b2c05-d078-4135-8883-450d9ff3215e> <https://doi.org/10.23658/taltech.56/2021>

Investigating the impact of vitrification on bovine ovarian tissue morphology, follicle survival, and transcriptomic signature

Deligiannis, Spyridon P.; Kask, Keiu; Modhukur, Vijayachitra; Boskovic, Nina; Ivask, Marilin; Jaakma, Ülle; Damdimopoulou, Pauliina; Tuuri, Timo; Velthut-Meikas, Agne; Salumets, Andres Journal of Assisted Reproduction and Genetics 2024 / p. 1035-1055

<https://doi.org/10.1007/s10815-024-03038-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

2023. aasta inimesegeneetikas

Org, Tõnis; **Velthut-Meikas, Agne**; Rebane, Ana; Laisk, Triin Eesti Arst 2024 / lk. 116-117

<https://ojs.utlib.ee/index.php/EA/article/view/23844>

Meie Eesti naised : Naisteadlased, kes parandavad tervist, vaimset heaolu, päikeseenergeetikat ja Eesti majandust

Velthut-Meikas, Agne; Bachmann, Maie; Leoste, Janika; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit goodnews.ee 2023

[Meie Eesti naised : Naisteadlased, kes parandavad tervist, vaimset heaolu, päikeseenergeetikat ja Eesti majandust](#)

MicroRNAs expressed from FSHR and aromatase genes target important ovarian functions [Online resource]

Rooda, Ilmatar; Kaselt, Birgitta; Salumets, Andres; **Velthut-Meikas, Agne** bioRxiv 2019 / 38 p. : ill <https://doi.org/10.1101/597054>

Naiste viljakust mõjutab arvatust rohkem tegureid

Velthut-Meikas, Agne novaator.err.ee 2022 [Naiste viljakust mõjutab arvatust rohkem tegureid](#)

Ovarian follicle as the environment of oocyte maturation : the role of granulosa cells and follicular fluid at pre-ovulatory development = Munasarja folliikul kui munaraku küpsemise keskkond : granuloosrakkude ja follikulaarvedeliku roll ovulatsioonieelses arengus

Velthut-Meikas, Agne 2014

Oviduct as a sensor of embryo quality: deciphering the extracellular vesicle (EV)-mediated embryo-maternal dialogue

Dissanayake, Keerthi; Nömm, Monika; Lättekivi, Freddy; Ord, James; Ressaissi, Yosra; Godakumara, Kasun; Viil, Janeli; Jääger, Kersti; **Velthut-Meikas, Agne**; Salumets, Andres Journal of molecular medicine 2021 / p. 685–697 : ill <https://doi.org/10.1007/s00109-021-02042-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The profile of steroid hormones in human fetal and adult ovaries

Vazakidou, Paraskevi; Evangelista, Sara; Li, Tianyi; Lecante, Laetitia L.; **Rosenberg, Kristine**; Koekkoek, Jacco; Salumets, Andres; **Velthut-Meikas, Agne**; Damdimopoulou, Pauliina; Mazaud-Guittot, Severine Reproductive biology and endocrinology 2024 / art. 60

<https://doi.org/10.1186/s12958-024-01233-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Progesterone triggers Rho kinase-cofilin axis during in vitro and in vivo endometrial decidualization

Lavogina, Darja; Stepanjuk, Artjom; Peters, Maire; Samuel, Külli; Kasvandik, Sergo; Khatun, Masuma; Arffman, Riikka K.; Enkvist, Erki; Viht, Kaido; **Velthut-Meikas, Agne** Human reproduction 2021 / p. 2230-2248 <https://doi.org/10.1093/humrep/deab161> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Putative adverse outcome pathways for female reproductive disorders to improve testing and regulation of chemicals

Johansson, Hanna K. L.; Damdimopoulou, Pauliina; Jääger, Kersti; **Velthut-Meikas, Agne** Archives of toxicology 2020 / p. 3359–3379 <https://doi.org/10.1007/s00204-020-02834-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reduced ovarian cholesterol and steroid biosynthesis along with increased inflammation are associated with high DEHP metabolite levels in human ovarian follicular fluids

Varik, Inge; Zou, Runyu; Bellavia, Andrea; **Rosenberg, Kristine**; Sjunnesson, Ylva; Hallberg, Ida; Holte, Jan; Lenters, Virissa;

Duursen, Majorie B.M. van; **Velthut-Meikas, Agne** Environment international 2024 / art. 108960

<https://doi.org/10.1016/j.envint.2024.108960> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Safeguarding female reproductive health against endocrine disrupting chemicals-The FREIA project

Duursen, Majorie B.M. van; Boberg, Julie; Christiansen, Sofie; Jääger, Kersti; Salumets, Andres; **Velthut-Meikas, Agne**

International journal of molecular sciences 2020 / art. 3215 <https://doi.org/10.3390/ijms21093215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Single-cell RNA-seq analysis and cell-cluster deconvolution of the human preovulatory follicular fluid cells provide insights into the pathophysiology of ovarian hyporesponse

Roos, Kristine; Rooda, Ilmatar; Keif, Robyn-Stefany; Liivrand, Maria; Smolander, Olli-Pekka; Salumets, Andres; **Velthut-Meikas, Agne**

Frontiers in Endocrinology 2022 / art. 945347 <https://doi.org/10.3389/fendo.2022.945347> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Small and Large Extracellular Vesicles From Human Preovulatory Follicular Fluid Display Distinct ncRNA Cargo Profiles and Differential Effects on KGN Granulosa Cells

Varik, Inge; Saretok, Katariina Johanna; Rosenberg, Kristine; Quintero, Ileana; Puhka, Maija; Volkova, Nataliia; Trošin, Aleksander; Guazzi, Paolo; **Velthut-Meikas, Agne**

Journal of Extracellular Vesicles 2025 / art. e70119 <https://doi.org/10.1002/jev2.70119>

Spermatozoa induce transcriptomic alterations in bovine oviductal epithelial cells prior to initial contact

Reshi, Qurat Ul Ain; Viil, Janeli; Ord, James; Lättekivi, Freddy; Godakumara, Kasun; Hasan, Mohammed Mehedi; Nömm, Monika; Jääger, Kersti; **Velthut-Meikas, Agne**; Jaakma, Ülle; Salumets, Andres; Fazeli, Alireza

Journal of cell communication and signaling 2020 / p. 439–451 <https://doi.org/10.1007/s12079-020-00575-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TAC-seq : targeted DNA and RNA sequencing for precise biomarker molecule counting

Teder, Hindrek; Koel, Mariann; Paluoja, Priit; **Velthut-Meikas, Agne** npj genomic medicine 2018 / art. 34, 8 p. : ill

<https://doi.org/10.1038/s41525-018-0072-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Target prediction and validation of microRNAs expressed from FSHR and aromatase genes in human ovarian granulosa cells

Rooda, Ilmatar; Hensen, Kati; Kaselt, Birgitta; **Velthut-Meikas, Agne** Scientific reports 2020 / art. 2300, 13 p. : ill

<https://doi.org/10.1038/s41598-020-59186-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Trophoblast derived extracellular vesicles specifically alter the transcriptome of endometrial cells and may constitute a critical component of embryo-maternal communication

Godakumara, Kasun; Ord, James; Lättekivi, Freddy; Dissanayake, Keerthie; Viil, Janeli; Boggavarapu, Nageswara Rao; Faridani, Omid R.; Jääger, Kersti; **Velthut-Meikas, Agne**; Jaakma, Ülle; Salumets, Andres; Fazeli, Alireza

Reproductive biology and endocrinology 2021 / art. 115 <https://doi.org/10.1186/s12958-021-00801-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TTÜ geeniteadlaste uurimus avas naiste viljatuse tagamaid [Võrguväljaanne]

Velthut-Meikas, Agne novaator.err.ee 2020 / fot [TTÜ geeniteadlaste uurimus avas naiste viljatuse tagamaid](#)

A two-cohort RNA-seq study reveals changes in endometrial and blood mirnome in fertile and infertile women

Rekker, Kadri; Altmäe, Signe; Suhorutshenko, Marina; Peters, Maire; Martinez-Blanch, Juan F.; Codoñer, Francisco M.; Vilella, Felipe; Simón, Carlos; Salumets, Andres; **Velthut-Meikas, Agne**

Genes 2018 / Article nr. 574 <https://doi.org/10.3390/genes9120574> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Täna on teadusnaistepäev: sõna võtavad loodusteadlased

Spuul, Pirjo; **Velthut-Meikas, Agne**; **Vaher, Merike** postimees.ee 2023 [Täna on teadusnaistepäev: sõna võtavad loodusteadlased](#)

Uterine fluid proteins for minimally invasive assessment of endometrial receptivity

Kasvandik, Sergo; Saarma, Merilin; Kaart, Tanel; **Rooda, Ilmatar**; **Velthut-Meikas, Agne**; Ehrenberg, Aivar; Gemzell, Kristina;

Lalithkumar, Parameswaran Grace; Salumets, Andres; Peters, Maire The journal of clinical endocrinology & metabolism 2020 / p. 219-230 <https://doi.org/10.1210/clinem/dgq019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uuring: kas kolmandik inimese munarakkudest on kasutud?

tervise.geenius.ee 2024

Women exposed to higher levels of DEHP display altered microRNA expression profile in the pre-ovulatory follicular fluid

Varik, Inge; **Roos, Kristine**; Bellavia, A.; Zou, R.; Björvang, R. D.; Sjunnesson, Y.; Hallberg, I.; Holte, J.; Pikki, A.; Lenters, V.; Van

Duursen, M.; Vermeulen, R.; Salumets, A.; Damdimopoulou, P.; **Velthut-Meikas, Agne** Human Reproduction : ESHRE 2023 : abstracts 2023 / art. P-673 <https://doi.org/10.1093/humrep/dead093.043>

99,99% probleemidest on lahendatavad ehk Mis kasu võib tuua Kõrgemate kraadide omandamine
Velthut-Meikas, Agne Studioosus 2025 / lk. 25-27 : ill https://www.ester.ee/record=b1558644*est