

### **A specific role for the TFIIID subunit TAF4 and RanBPM in neural progenitor differentiation**

Brunkhorst, Adrian; Karlen, Mattias; Shi, Jiaqi; Mikolajczyk, Monica; Nelson, Mark A.; **Metsis, Madis**; Hermanson, Ola Molecular and cellular neuroscience 2005 / 2, p. 250-258 <https://pubmed.ncbi.nlm.nih.gov/15911349/>

### **Alien plants associate with widespread generalist arbuscular mycorrhizal fungal taxa : evidence from a continental-scale study using massively parallel 454 sequencing**

Moora, Mari; Berger, Silje; Davison, John; Öpik, Maarja; Bommarco, Riccardo; Bruehlheide, Helge; Kühn, Ingolf; Kunin, William; **Metsis, Madis**; Rortais, Agnes; Vanatoa, Alo; Vanatoa, Elise; Stout, Jane; **Truusa, Merlin**; Westphal, Catrin; Zobel, Martin; Walther, Gian-Reto Journal of biogeography 2011 / p. 1305-1317 : ill [https://www.researchgate.net/publication/222096030\\_Alien\\_plants\\_associate\\_with\\_widespread\\_generalist\\_arbuscular\\_mycorrhizal\\_fungal\\_taxa\\_Evidence\\_from\\_a\\_continental-scale\\_study\\_using\\_massively\\_parallel\\_454\\_sequencing](https://www.researchgate.net/publication/222096030_Alien_plants_associate_with_widespread_generalist_arbuscular_mycorrhizal_fungal_taxa_Evidence_from_a_continental-scale_study_using_massively_parallel_454_sequencing)

### **Analysis of soil sample metagenome as an additional tool for forensics**

**Aaspõllu, Anu**; Lilje, Liisa; **Simm, Jaak**; Kägo, Esta; Sipp Kulli, Sirli; Moora, Mari; Zobel, Martin; **Metsis, Madis** IAFS 2011 - 19th International Association of Forensic Sciences : 12. - 17.09.2011, Madeira, Portugal 2011 / p. 42

### **Bermuda kolmnurka uppunud püramiid**

**Metsis, Madis**; Tomberg, Hanno Postimees 2011 / lk. 12

### **Brain-derived neurotrophic factor expression in vivo is under the control of neuron-restrictive silencer element**

Timmusk, Tõnis; Palm, Kaia; Lendahl, U.; **Metsis, Madis** Journal of biological chemistry 1999 / p. 1078-1084

### **Can microbes on skin help linking persons and crimes?**

**Aaspõllu, Anu**; Lillsaar, Triin; Tummelleht, Lea; **Simm, Jaak**; **Metsis, Madis** Forensic science international : genetics supplement series 2011 / 1, p. e269-e270 : ill <http://dx.doi.org/doi:10.1016/j.fsigss.2011.08.131>

### **Cell-type-specific expression of the TFIIID component TAFII135 in the nervous system**

**Metsis, Madis**; Brunkhorst, Adrian; Neuman, Toomas Experimental cell research 2001 / p. 214-221 <https://www.sciencedirect.com/science/article/pii/S0014482701953078>

### **Changes in the transcriptome of the human endometrial Ishikawa cancer cell line induced by estrogen, progesterone, tamoxifen, and mifepristone (RU486) as detected by RNA-sequencing**

Tamm-Rosenstein, Karin; **Simm, Jaak**; Suhorutšenko, Marina; Salumets, Andres; **Metsis, Madis** PLoS ONE 2013 / p. 1-13 : ill <https://doi.org/10.1371/journal.pone.0068907> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Characterization of the vaginal micro- and mycobiome in asymptomatic reproductive-age Estonian women**

Drell, Tiina; Lillsaar, Triin; Tummelleht, Lea; **Simm, Jaak**; **Aaspõllu, Anu**; Väin, Edda; Saarma, Ivo; Salumets, Andres; Donders, Gilbert G. G.; **Metsis, Madis** PLoS ONE 2013 / p. 1-11 : ill <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0054379> <https://doi.org/10.1371/journal.pone.0054379> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Combination of native and denaturing PAGE for the detection of protein binding regions in long fragments of genomic DNA**

Kaer, Kristel; Mätlik, Kert; **Metsis, Madis**; Speek, Mart BMC genomics 2008 / 272, [12] p. : ill <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2435560/>

### **Communities of arbuscular mycorrhizal fungi detected in forest soil are spatially heterogeneous but do not vary throughout the growing season**

Davison, John; Öpik, Maarja; Zobel, Martin; Vasar, Martti; **Metsis, Madis**; Moora, Mari PLoS ONE 2012 / p. e41938 : ill <https://pubmed.ncbi.nlm.nih.gov/22879900/>

### **Construction and characterization of a cDNA library from the marine sponge Chondrosia reniformis**

**Kuuskalu, Anne**; **Metsis, Madis**; Reintamm, Tõnu; **Kelve, Merike** Porifera research - biodiversity, innovation and sustainability 2007 / p. 405-412

### **Corticosterone actions on the hippocampal brain-derived neurotrophic factor expression are mediated by exon IV promoter**

Hansson, Anita C.; Sommer, Wolfgang; **Metsis, Madis**; Stromberg, Ingrid; Agnati, Luigi Francesco; Fuxe, Kjell Journal of neuroendocrinology 2006 / 2, p. 104-114 <http://dx.doi.org/10.1111/j.1365-2826.2005.01390.x>

### **Endometrial transcriptome analysis indicates superiority of natural over artificial cycles in recurrent implantation failure patients undergoing frozen embryo transfer**

Altmäe, Signe; **Tamm-Rosenstein, Karin**; Esteban, Francisco J.; **Simm, Jaak**; Kolberg, Liis; Peterson, Hedi; **Metsis, Madis** Reproductive BioMedicine Online 2016 / p. 597 - 613 <https://doi.org/10.1016/j.rbmo.2016.03.004> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Environmental enrichment results in higher levels of nerve growth factor mRNA in the rat visual cortex and hippocampus**

Torasdotter, M.; **Metsis, Madis**; Henriksson, B.G.; Winblad, B.; Mohammed, A.H. Behavioural brain research 1998 / p. 83-90

#### **Evaluation of transportan 10 in PEI mediated plasmid delivery assay**

Kilk, K.; El-Andaloussi, S.; Jarver, P.; Meikas, A.; **Valkna, Andres**; Bartfai, T.; **Kogerman, Priit**; **Metsis, Madis**; Langel, Ülo Journal of controlled release 2005 / 2, p. 511-523 <https://pubmed.ncbi.nlm.nih.gov/15763630/>

#### **Expression of neurotrophin receptors in rat testis. Upregulation of TrkA mRNA with hCG treatment**

Schultz, R.; **Metsis, Madis**; Hokfelt, T.; Parvinen, M.; Pelto-Huikko, M. Molecular and cellular endocrinology 2001 / p. 121-127 <https://pubmed.ncbi.nlm.nih.gov/11500245/>

#### **Extracellular acidification : a novel detection system for ligand/receptor interactions. Demonstration with bioactive peptides and CHO or pancreatic beta cells, but of possible interest for tracing putative receptors in ethanol metabolism**

Bonetto, V.; Eriste, Elo; **Metsis, Madis**; Sillard, Rannar Advances in experimental medicine & biology 1999 / p. 351-358 [https://link.springer.com/chapter/10.1007/978-1-4615-4735-8\\_43](https://link.springer.com/chapter/10.1007/978-1-4615-4735-8_43)

#### **Genes for neurotrophic factors and their receptors : structure and regulation**

**Metsis, Madis** Cellular and molecular life sciences 2001 / p. 1014-1020 <https://pubmed.ncbi.nlm.nih.gov/11529494/>

#### **Genes regulated by estrogen and progesterone in human endometrium = Östradioli ja progesterooni reguleeritud geenid inimese endomeetriumis**

Rosenstein, Karin 2016 [https://www.ester.ee/record=b4567260\\*est](https://www.ester.ee/record=b4567260*est)

#### **Genes targeted by the estrogen and progesterone receptors in the human endometrial cell lines HEC1A and RL95-2**

Tamm, Karin; Rõõm, Miia; Salumets, Andres; **Metsis, Madis** Reproductive biology and endocrinology 2009 / 12 p. : ill <https://pubmed.ncbi.nlm.nih.gov/20034404/>

#### **Global sampling of plant roots expands the described molecular diversity of arbuscular mycorrhizal fungi**

Õpik, Maarja; Zobel, Martin; **Metsis, Madis** Mycorrhiza 2013 / p. 411-430 : ill <https://doi.org/10.1007/s00572-013-0482-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Identification of the gene transcription repressor domain of Gli3**

Tsanev, Robert; Tiigimägi, Piret; Michelson, Piret; **Metsis, Madis**; Osterlund, Torben; Kogerman, Priit FEBS letters 2009 / 1, p. 224-228 : ill <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697317/>

#### **Inimese ja soolebakteri genoomist**

**Metsis, Madis** Tarkade Klubi 2010 / erinumber, lk. 46

#### **Investigation of interactions between mitochondrial creatine kinase and ATP/ADP channel**

Karu-Varikmaa, Minna; **Metsis, Madis**; Guzun, Rita; Käämbre, Tuuli; Grichine, Alexei; Saks, Valdur FEBS journal 2011 / p. 374-375

#### **IT+tervishoid : EST\_IT@2018 raport infotehnoloogia kasutamisest tervishoius**

Port, Kristjan 2011 [https://www.ester.ee/record=b2650085\\*est](https://www.ester.ee/record=b2650085*est)

#### **Kas arvamusiidrid või hoopis -liiderdajad?**

**Metsis, Madis** Eesti Päevaleht 2010 / lk. 3 [https://artiklid.elnet.ee/record=b2152995\\*est](https://artiklid.elnet.ee/record=b2152995*est)

#### **Microbiology of the soil active layer in Antarctica**

Künnis-Beres, Kai; **Kaup, Enn**; **Aaspõllu, Anu**; **Metsis, Madis**; Sharma, Bhupesh The Xlth SCAR Biology Symposium Life in Antarctica Boundaries and Gradients in a Changing Environment : 15-19 July 2013, Barcelona, Spain 2013 / [1] p

#### **Mitochondria–cytoskeleton interaction : distribution of $\beta$ -tubulins in cardiomyocytes and HL-1 cells**

Guzun, Rita; Karu-Varikmaa, Minna; Gonzalez-Granillo, Marcela; Kuznetsov, Andrey V.; Michel, Laurianne; Cottet-Rousselle, Cecile; **Saaremäe, Merle**; Käämbre, Tuuli; **Metsis, Madis**; Grimm, Michael; Auffray, Charles; Saks, Valdur Biochimica et biophysica acta 2011 / p. 458-469 : ill <https://core.ac.uk/download/pdf/82551314.pdf>

#### **Mucin5B expression by lung alveolar macrophages is increased in long-term smokers**

Sepper, Ruth; Prikk, Kaiu; **Metsis, Madis**; Sergejeva, Svetlana; Pugatsjova, Natalia; Bragina, Olga; Marran, Sirje; Fehniger, Thomas Edward Journal of leukocyte biology 2012 / p. 319-324 <https://pubmed.ncbi.nlm.nih.gov/22591690/>

#### **Near-bottom hypoxia impacts dynamics of bacterioplankton assemblage throughout water column of the Gulf of Finland (Baltic Sea)**

Laas, Peeter; Šatova, Elina; Lips, Inga; Lips, Urmas; Simm, Jaak; Kisand, Veljo; **Metsis, Madis** PLoS ONE 2016 / art. e0156147, p. 1-19 : ill <https://doi.org/10.1371/journal.pone.0156147> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Neuronal expression of zinc finger transcription factor REST/NRSF/XBR gene**

Palm, Kaia; Belluardo, N.; **Metsis, Madis**; Timmusk, Tõnis Journal of neuroscience 1998 / p. 1280-1296

**Neuronal specific splicing of zinc finger transcription factor REST/NRSF/XBR is widespread in neuroblastomas and conserved in human, rat and mouse**

Palm, Kaia; **Metsis, Madis**; Timmusk, Tõnis Mol. brain res 1999 / p. 30-39  
<https://www.sciencedirect.com/science/article/abs/pii/S0169328X99001965>

**Novel method for investigation of interactions between mitochondrial creatine kinase and adenine nucleotide translocase**

Varikmaa, Minna; **Metsis, Madis**; Guzun, Rita; Käämbre, Tuuli; Grichine, Alexei; Saks, Valdur Biophysical journal 2010 / Iss. 3, Suppl. 1, p. 735a  
[https://www.researchgate.net/publication/247278037\\_Novel\\_Method\\_for\\_Investigation\\_of\\_Interactions\\_between\\_Mitochondrial\\_Creatine\\_Kinase\\_and\\_Adenine\\_Nucleotide\\_Translocase](https://www.researchgate.net/publication/247278037_Novel_Method_for_Investigation_of_Interactions_between_Mitochondrial_Creatine_Kinase_and_Adenine_Nucleotide_Translocase)

**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

**Plant species richness belowground : higher richness and new patterns revealed by next-generation sequencing**

Hiiesalu, Inga; Öpik, Maarja; **Metsis, Madis**; Lilje, Liisa; Davidson, John; Vasar, Martti; Moora, Mari; Zobel, Martin; Wilson, Scott D; Pärtel, Meelis Molecular ecology 2012 / p. 2004-2016 : ill  
[https://www.researchgate.net/publication/51877187\\_Plant\\_species\\_richness\\_belowground\\_Higher\\_richness\\_and\\_new\\_patterns\\_revealed\\_by\\_next-generation\\_sequencing](https://www.researchgate.net/publication/51877187_Plant_species_richness_belowground_Higher_richness_and_new_patterns_revealed_by_next-generation_sequencing)

**Redox-specialized bacterioplankton metacommunity in a temperate estuary**

Laas, Peeter; Simm, Jaak; Lips, Inga; Lips, Urmas; Kisand, Veljo; **Metsis, Madis** PLoS ONE 2015 / art. e0122304  
<https://doi.org/10.1371/journal.pone.0122304> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Regulation of mitochondrial respiration by different tubulin isoforms in vivo**

Karu-Varikmaa, Minna; **Saaremäe, Merle**; Sikk, Peeter; Käämbre, Tuuli; **Metsis, Madis**; Saks, Valdur Biophysical journal 2011 / p. 459a [https://www.cell.com/biophysj/fulltext/S0006-3495\(10\)04205-0](https://www.cell.com/biophysj/fulltext/S0006-3495(10)04205-0)

**Regulation of respiration in permeabilized muscle cells : apparent KM for ADP shows the mitochondrial outer membrane permeability**

Quetglas, Rafaela Bagur; **Karu-Varikmaa, Minna**; Tepp, Kersti; **Metsis, Madis** Biophysical journal 2013 / p. 447a-448a

**Research resource : small RNA-seq of human granulosa cells reveals miRNAs in FSHR and aromatase genes**

Velthut, Agne; Simm, Jaak; Tuuri, Timo; Tapanainen, Juha S.; **Metsis, Madis**; Salumets, Andres Molecular endocrinology 2013 / p. 1128-1141 : ill <https://doi.org/10.1210/me.2013-1058> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Richness of arbuscular mycorrhizal fungi in relation to grassland plant richness and productivity**

Hiiesalu, Inga; Pärtel, Meelis; Davidson, John; Gerhold, Pille; **Lilje, Liis**; **Metsis, Madis**; Moora, Mari; Öpik, Maarja; Vasar, Martti; Zobel, Martin; Wilson, Scott D 56th Symposium of the International Association for Vegetation Science "Vegetation patterns and their underlying processes" : abstracts : 26-30 June 2013 Tartu, Estonia 2013 / p. 85

**Role of mitochondria-cytoskeleton interactions in respiration regulation and mitochondrial organization in striated muscles**

**Varikmaa, Minna**; Bagur, Rafaela; Kaambre, Tuuli; Grichine, Alexei; Timohhina, Natalja; Tepp, Kersti; Shevchuk, Igor; Chekulayev, Vladimir; **Metsis, Madis**; Boucher, François Biochimica et biophysica acta - Bioenergetics 2014 / p. 232-245 : ill  
<https://doi.org/10.1016/j.bbabi.2013.10.011> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Spatial variability of winter bacterioplankton community composition in the Gulf of Finland (the Baltic Sea)**

**Laas, Peeter**; Simm, Jaak; Lips, Inga; **Metsis, Madis** Journal of marine systems 2014 / p. 127-134 : ill  
<https://doi.org/10.1016/j.jmarsys.2013.07.016> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Sponge OAS has a distinct genomic structure within the 2-5A synthetase family**

**Reintamm, Tõnu**; Kuusksalu, Anne; **Metsis, Madis**; Päre, Mailis; Vallmann, Kerli; Lopp, Annika; Justesen, Just; **Kelve, Merike** Molecular genetics and genomics 2008 / p. 453-466 : ill <https://pubmed.ncbi.nlm.nih.gov/18797928/>

**Steroidhormoonide sihtmärkgeenid endomeetriumi rakuliinides**

**Tamm, Karin**; Rõõm, Miia; Salumets, Andres; **Metsis, Madis** Eesti Arst 2008 / 9, lk. 679 [https://artiklid.elnet.ee/record=b1065771\\*est](https://artiklid.elnet.ee/record=b1065771*est)

**Structural and functional studies of mitochondrial respiration regulation in muscle cells = Lihasrakkude mitokondriaalse hingamise regulatsiooni struktuursed ja funktsionaalsed uuringud**

**Varikmaa, Minna**; Saks, Valdur; **Metsis, Madis** 2013 [https://www.ester.ee/record=b3035829\\*est](https://www.ester.ee/record=b3035829*est)

**Suguhormoonide östradiooli ja progesterooni koespetsiifiline roll inimese endomeetriumis ja rinnanäärmes**

**Tamm, Karin; Suhorutšenko, Marina;** Talving, Elle; **Kaljas, Anne; Metsis, Madis** Eesti Arst 2012 / lk. 182-189 : ill

[https://artiklid.elnet.ee/record=b2488641\\*est](https://artiklid.elnet.ee/record=b2488641*est)

**Taome ajud atradeks**

**Metsis, Madis** Postimees 2012 / ak=arvamus kultuur, lk. 6 <https://arvamus.postimees.ee/778758/madis-metsis-taome-ajud-atradeks>

**Targeted expression of a multifunctional chimeric neurotrophin in the lesioned sciatic nerve accelerates regeneration of sensory and motor axons**

Funakoshi, H.; Risling, M.; Carlstedt, T.; Lendahl, U.; Timmusk, Tõnis; **Metsis, Madis;** Yamamoto, Y.; Ibanez, C.F. Proceedings of the National Academy of Sciences of the United States of America 1998 / p. 5269-5274

[https://www.researchgate.net/publication/235616922\\_Targeted\\_expression\\_of\\_a\\_multifunctional\\_chimeric\\_neurotrophin\\_in\\_the\\_lesioned\\_sciatic\\_nerve\\_accelerates\\_regeneration\\_of\\_sensory\\_and\\_motor\\_axons](https://www.researchgate.net/publication/235616922_Targeted_expression_of_a_multifunctional_chimeric_neurotrophin_in_the_lesioned_sciatic_nerve_accelerates_regeneration_of_sensory_and_motor_axons)

**The effect of maternal microbial communities and preterm birth on the development of infant gut microbiota = Ema mikroobikoosluste ja enneaegse sünni mõju imiku seedetrakti mikrobiota kujunemisele**

**Drell, Tiina** 2019 <https://digi.lib.ttu.ee/i/?13447>

**The influence of different maternal microbial communities on the development of infant gut and oral microbiota**

**Drell, Tiina;** Štšepetova, Jelena; **Simm, Jaak;** Rull, Kristiina; Aleksejeva, Aira; Antson, Anne; Tillmann, Vallo; **Metsis, Madis;** Sepp,

Epp; Salumets, Andres; Mändar, Reet Scientific reports 2017 / art. 9940, p. 1-9 : ill <https://doi.org/10.1038/s41598-017-09278-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The potential role of dioxin analogues in prostate cancer and male infertility - preliminary study using LNCaP cell line**

**Suhoorutšenko, Marina; Tamm-Rosenstein, Karin; Simm, Jaak;** Salumets, Andres; **Metsis, Madis** Human reproduction 2013 / p. i310-i311

**The tissue specific role of estrogen and progesterone in human endometrium and mammary gland**

**Tamm, Karin; Suhorutšenko, Marina; Rõõm, Miia; Simm, Jaak; Metsis, Madis** Steroids : basic science 2012 / p. 35-64 : ill

<https://eestiartst.ee/en/the-tissue-specific-role-of-oestrogen-and-progesterone-in-human-endometrium-and-mammary-gland/>

**Transcriptional repression of neurotrophin receptor trkB by thyroid hormone in the developing rat brain**

Pombo, P.M.; Barettino, D.; Espliguero, G.; **Metsis, Madis;** Iglesias, T.; Rodriguez-Pena, A. Journal of biological chemistry 2000 / p. 37510-37517 <https://pubmed.ncbi.nlm.nih.gov/10978336/>

**Vaginal microbiota of asymptomatic reproductive-age women in Estonia**

**Drell, Tiina; Lillsaar, Triin; Tummeleht, Lea; Simm, Jaak;** Väin, E.; Saarma, I.; **Metsis, Madis** Keystone Symposia on Molecular and Cellular Biology, Colorado, USA, March 25-30 2011 2011

**Valik teaduse ja nõidumise vahel**

**Metsis, Madis** Postimees 2009 / 17. nov., lk. 12 <https://arvamus.postimees.ee/189065/madis-metsis-valik-teaduse-ja-noidumise-vahel>