

### **Alzheimeri ravi võib peituda mälus**

**Timmusk, Tõnis**; Bramham, Clive Postimees 2017 / lk. 26-27 <https://teadus.postimees.ee/4314339/eesti-ja-norra-teadlased-alzheimeri-ravi-voib-peituda-malumolekulides>

### **Altered expression profile of igLON family of neural cell adhesion molecules in the dorsolateral prefrontal cortex of schizophrenic patients**

Karis, Karina; Eskla, Katri-Liis; Kaare, Maria; Täht, Karin; Tuusov, Jana; Visnapuu, Tanel; Innos, Jürgen; **Timmusk, Tõnis** Frontiers in Molecular Neuroscience 2018 / art. 8 <https://doi.org/10.3389/fnmol.2018.00008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Alternative splicing and expression of human and mouse NFAT genes**

**Vihma, Hanna**; Pruunsild, Priit; **Timmusk, Tõnis** Genomics 2008 / p. 279-291 : ill [https://www.researchgate.net/publication/23145218\\_Alternative\\_splicing\\_and\\_expression\\_of\\_human\\_and\\_mouse\\_NFAT\\_genes](https://www.researchgate.net/publication/23145218_Alternative_splicing_and_expression_of_human_and_mouse_NFAT_genes)

### **Alusuuringud on Eesti riigile hädavajalikud : teadlaste märgukiri**

Allik, Jüri; Engelbrecht, Jüri; Saarma, Mart; **Timmusk, Tõnis** Eesti Päevaleht 2004 / lk. 3

### **AP-1 transcription factors mediate BDNF-positive feedback loop in cortical neurons**

**Tuvikene, Jürgen**; Pruunsild, Priit; Orav, Ester; Esvald, Eli-Eelika; **Timmusk, Tõnis** Journal of neuroscience 2016 / p. 1290-1305 : ill <https://doi.org/10.1523/JNEUROSCI.3360-15.2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Autismi loodetakse diagnoosida vereprooviga : [Warwicki ülikoolis arandatavat analüüsimeetodit kommenteerib Tõnis Timmusk]**

Horisont 2018 / lk. 3 : ill [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est) <http://www.horisont.ee/arhiiv-2018/Horisont-2-2018.pdf>

### **BAC transgenic mice reveal distal cis-regulatory elements governing BDNF gene expression**

**Koppel, Indrek**; Aid-Pavlidis, Tamara; Jaanson, Kaur; Sepp, Mari; Palm, Kaia; **Timmusk, Tõnis** Genesis 2010 / 4, p. 214-219 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2978326/>

### **BAC-based cellular model for screening regulators of BDNF gene transcription**

**Jaanson, Kaur**; Sepp, Mari; Aid-Pavlidis, Tamara; **Timmusk, Tõnis** BMC neuroscience 2014 / p. 1-12 : ill <https://doi.org/10.1186/1471-2202-15-75> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bidirectional transcription from human LRRTM2/CTNNA1 and LRRTM1/CTNNA2 gene loci leads to expression of N-terminally truncated CTNNA1 and CTNNA2 isoforms**

**Kask, Martin**; Pruunsild, Priit; **Timmusk, Tõnis** Biochemical and biophysical research communications 2011 / p. 56-61 : ill <https://pubmed.ncbi.nlm.nih.gov/21708131/>

### **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

### **The CB<sub>1</sub> cannabinoid receptor signals striatal neuroprotection via a PI3K/Akt/mTORC1/BDNF pathway**

Blazquez, C.; Chiarlone, A.; **Pruunsild, Priit**; **Timmusk, Tõnis** Cell death and differentiation 2015 / p. 1618-1629 : ill <https://doi.org/10.1038/cdd.2015.11> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cell type-specific labelling of newly synthesized proteins by puromycin inactivation**

**Cabrera-Cabrera, Florencia**; Tull, Helena; Capuana, Roberta; Kasvandik, Sergio; **Timmusk, Tõnis**; **Koppel, Indrek** Journal of biological chemistry 2023 / art. 105129, 12 p. : ill <https://doi.org/10.1016/j.jbc.2023.105129> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Cocaine-induced epigenetic DNA modification in mouse addiction-specific and non-specific tissues**

Anier, Kaili; Urb, Mari; Kipper, Karin; Herodes, Koit; **Timmusk, Tõnis** Neuropharmacology 2018 / p. 13-25 <https://doi.org/10.1016/j.neuropharm.2018.06.036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Corticosterone induces DNA methyltransferases expression in rat cortical neurons**

Urb, Mari; Anier, Kaili; Matsalu, Terje; Aonurm-Helm, Anu; **Timmusk, Tõnis** SpringerPlus 2015 / p. 30, P50 <http://dx.doi.org/10.1186/2193-1801-4-S1-P50>

### **CREB family transcription factors are major mediators of BDNF transcriptional autoregulation in cortical neurons**

**Esvald, Eli-Eelika**; **Tuvikene, Jürgen**; **Sirp, Alex**; Patil, Sudarshan; Bramham, Clive; **Timmusk, Tõnis** Journal of neuroscience 2020 / p. 1405-1426 : ill <https://doi.org/10.1523/JNEUROSCI.0367-19.2019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Daughterless, the Drosophila orthologue of TCF4, is required for associative learning and maintenance of the synaptic proteome**

**Tamberg, Laura**; Jaago, Mariliis; Säälk, Kristi; **Sirp, Alex**; **Tuvikene, Jürgen**; Šubina, Anastassia; Kiir, Carl Alexander;

**Nurm, Kaja; Sepp, Mari; Timmusk, Tõnis; Palgi, Mari** Disease Models & Mechanisms 2020 / art. dmm042747, 15 p. : ill  
<https://doi.org/10.1242/dmm.042747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Deciphering molecular basis of Schwann cell development = Schwanni rakkude arengu molekulaarse mehhanismide selgitamine**

**Piirsoo, Marko; Timmusk, Tõnis; Meijer, Dies** 2009 [https://www.ester.ee/record=b2546066\\*est](https://www.ester.ee/record=b2546066*est)

**Dendritic localization of mammalian neuralized mRNA encoding a protein with transcription repression activities**

**Timmusk, Tõnis; Palm, Kaia; Belluardo, N.; Mudo, G.; Neuman, Toomas** Molecular and cellular neurosciences 2002 / 4, p. 649-668  
<https://www.sciencedirect.com/science/article/pii/S1044743102911486>

**Differential patterns of cross-reactive antibody response against SARS-CoV-2 spike protein detected for chronically ill and healthy COVID-19 naïve individuals**

**Jaago, Mariliis; Rähni, Annika; Pupina, Nadezda; Sadam, Helle; Tuvikene, Jürgen; Avarlaid, Annela; Planken, Anu; Planken, Margus; Haring, Liina; Vasar, Eero; Bacevic, Miljana; Lambert, France; Kalso, Eija; Pussinen, Pirkko; Tienari, Pentti J.; Vaheri, Antti; Lindholm, Dan; Timmusk, Tõnis; Ghaemmaghami, Amir M.; Palm, Kaia** Scientific reports 2022 / art. 16817 : ill  
<https://doi.org/10.1038/s41598-022-20849-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Differential regulation of Bdnf expression in cortical neurons by class-selective histone deacetylase inhibitors**

**Koppel, Indrek; Timmusk, Tõnis** Neuropharmacology 2013 / p. 106-115 : ill <https://doi.org/10.1016/j.neuropharm.2013.07.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Differential regulation of the BDNF gene in cortical and hippocampal neurons**

**Esvald, Eli-Eelika; Tuvikene, Jürgen; Moistus, Andra; Rannaste, Käthy; Kõomägi, Susann; Timmusk, Tõnis** Journal of neuroscience 2022 / p. 9110-9128 <https://doi.org/10.1523/JNEUROSCI.2535-21.2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dissecting stimulus-dependent transcription of brain-derived neurotrophic factor = Aju-päritolu neurotroofse teguri stiimulsõltuva transkriptsiooni uuringud**

**Esvald, Eli-Eelika** 2023 <https://doi.org/10.23658/taltech.32/2023> <https://digikogu.taltech.ee/et/Item/6222c009-c82d-4efb-98c2-51bf2f148b52>  
[https://www.ester.ee/record=b5567508\\*est](https://www.ester.ee/record=b5567508*est)

**Dopamine crossreacts with adrenoreceptors in cortical astrocytes to induce BDNF expression, CREB signaling and morphological transformation**

**Koppel, Indrek; Jaanson, Kaur; Klasche, Airi; Tuvikene, Jürgen; Tiirik, Tõnis; Pärn, Angela; Timmusk, Tõnis** GLIA 2018 / p. 206-216 : ill <https://doi.org/10.1002/glia.23238> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Drastic effects on the microbiome of a young rower engaged in high-endurance exercise after a month usage of a dietary fiber supplement**

**Jaago, Mariliis; Timmusk, Uku Siim; Timmusk, Tõnis; Palm, Kaia** Frontiers in Nutrition 2021 / art. #654008, 11 p. : ill  
<https://doi.org/10.3389/fnut.2021.654008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Eesti teadlased otsivad ravi levinud haigusele, mis ajab silmad villi [Võrguväljaanne]**

**Timmusk, Tõnis** novaator.err.ee 2021 / fot [Eesti teadlased otsivad ravi levinud haigusele, mis ajab silmad villi](#)

**Eesti teadlaste leid võib sillutada teed uutmoodi depressiooniravile**

novaator.err.ee 2025 <https://novaator.err.ee/1609664366/eesti-teadlaste-leid-voib-sillutada-teed-utmoodi-depressiooniravile>  
<https://doi.org/10.1523/JNEUROSCI.0313-24.2025>

**Efficient use of a translation start codon in BDNF exon I**

**Koppel, Indrek; Tuvikene, Jürgen; Lekk, Ingrid; Timmusk, Tõnis** Journal of neurochemistry 2015 / p. 1015-1025 : ill  
<https://doi.org/10.1111/jnc.13124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An 840 kb distant upstream enhancer is a crucial regulator of catecholamine-dependent expression of the BDNF gene in astrocytes**

**Avarlaid, Annela; Esvald, Eli-Eelika; Koppel, Indrek; Parkman, Annabel; Zhuravskaya, Anna; Makeyev, Eugene V.; Tuvikene, Jürgen; Timmusk, Tõnis** Glia 2024 / p. 90-110 : ill <https://doi.org/10.1002/glia.24463> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrochemical sensor based on molecularly imprinted polymer for rapid quantitative detection of brain-derived neurotrophic factor**

**Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Tuvikene, Jürgen; Timmusk, Tõnis; Sõritski, Vitali** Sensors and Actuators B: Chemical 2023 / art. 134656 <https://doi.org/10.1016/j.snb.2023.134656> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estonian scientists' find could pave the way for new depression treatment**

err.ee 2025 <https://news.err.ee/1609664915/estonian-scientists-find-could-pave-the-way-for-new-depression-treatment>  
<https://doi.org/10.1523/JNEUROSCI.0313-24.2025>

**Exploration of host-agent-environment interactions using tools of metagenomic sequencing and next generation phage display = Metagenoomi sekveneerimise ja järgmise põlvkonna faagidisplei kasutamine inimese eksposoomi kirjeldamisel**  
**Jaago, Mariliis** 2023 <https://doi.org/10.23658/taltech.56/2023> <https://digikogu.taltech.ee/et/Item/0220f3e8-c452-4c02-a117-d8c343375d24>  
[https://www.ester.ee/record=b5645213\\*est](https://www.ester.ee/record=b5645213*est)

**Expression analysis of the CLCA gene family in mouse and human with emphasis on the nervous system**  
**Piirsoo, Marko**; Meijer, Dies; **Timmusk, Tõnis** BMC developmental biology 2009 / p. 10 : ill  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2653474/>

**Expression and alternative splicing of mouse Gfra4 suggests roles in endocrine cell development**  
Lindahl, Maria; Timmusk, Tõnis; Rossi, J.; **Saarma, Mart**; Airaksinen, Matti S. Molecular and cellular neuroscience 2000 / p. 522-533

**Expression of alternative transcription factor 4 mRNAs and protein isoforms in the developing and adult rodent and human tissues**  
**Sirp, Alex**; **Shubina, Anastassia**; Tuvikene, Jürgen; **Tamberg, Laura**; Kiir, Carl Sander; **Kranich, Laura**; **Timmusk, Tõnis**  
Frontiers in Molecular Neuroscience 2022 / art. 1033224 <https://doi.org/10.3389/fnmol.2022.1033224> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Expression of NGF and GDNF family members and their receptors during peripheral nerve development and differentiation of Schwann cells in vitro**  
**Piirsoo, Marko**; **Kaljas, Anne**; **Tamm, Karin**; **Timmusk, Tõnis** Neuroscience letters 2010 / 1, p. 135-140 : ill  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2808476/>

**Forkhead transcription factor FOXO3a levels are increased in Huntington disease because of overactivated positive autoregulation loop**  
**Kannike, Kaja**; **Sepp, Mari**; Zuccato, Chiara; Cattaneo, Elena; **Timmusk, Tõnis** Journal of biological chemistry 2014 / p. 32845-32857 : ill <https://doi.org/10.1074/jbc.M114.612424> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fragment-based QSAR approach for novel indole-like TrkA receptor antagonist**  
**Tammiku-Taul, Jaana**; **Dobchev, Dimitar Atanasov**; Karelson, Mati; **Timmusk, Tõnis**; **Park, Rahel**; **Jaanson, Kaur**; **Luberg, Kristi**; **Kananovich, Dzmitry**; **Noole, Artur**; **Kanger, Tõnis**; **Lopp, Margus** 8th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources (CMTPI-2015) : Chios, Greece, June 21-25, 2015 : book of abstracts 2015 / p. 68

**The Fuchs corneal dystrophy-associated CTG repeat expansion in the TCF4 gene affects transcription from its alternative promoters**  
**Sirp, Alex**; **Leite, Kristian**; Tuvikene, Jürgen; **Nurm, Kaja**; **Sepp, Mari**; **Timmusk, Tõnis** Scientific reports 2020 / art. 18424  
<https://doi.org/10.1038/s41598-020-75437-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Functional consequences of TCF4 missense substitutions associated with Pitt-Hopkins syndrome, mild intellectual disability, and schizophrenia**  
**Sirp, Alex**; **Roots, Kaisa**; **Nurm, Kaja**; Tuvikene, Jürgen; **Sepp, Mari**; **Timmusk, Tõnis** The journal of biological chemistry 2021 / art. 101381 <https://doi.org/10.1016/j.jbc.2021.101381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Functional diversity of human basic helix-loop-helix transcription factor TCF4 isoforms generated by alternative 5' exon usage and splicing**  
**Sepp, Mari**; **Kannike, Kaja**; **Eesmaa, Ave**; **Urb, Mari**; **Timmusk, Tõnis** PLoS ONE 2011 / p. e22138 [14 p.] : ill  
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0022138>

**Functions of the basic helix-loop-helix transcription factor TCF4 in health and disease = Aluselise heeliks-ling-heeliks transkriptsioonifaktori TCF4 funktsioonid ja seosed haigustega**  
**Sepp, Mari** 2012

**Geenide sosinad: TalTechi teadus avab ukse ajutervise saladustesse**  
**Vaaks, Eveliis** Trialoog 2025 <https://trialoog.taltech.ee/geenide-sosinad-taltech-teadus-avab-ukse-ajutervise-saladustesse/>

**GLI2 cell-specific activity is controlled at the level of transcription and RNA processing : consequences to cancer metastasis**  
**Sadam, Helle**; Liivas, Urmas; **Kazantseva, Anna**; **Pruunsild, Priit**; **Kazantseva, Jekaterina**; **Timmusk, Tõnis**; **Neuman, Toomas**; **Palm, Kaia** Biochimica et Biophysica Acta - Molecular Basis of Disease 2016 / p. 46 - 55 <https://doi.org/10.1016/j.bbadis.2015.10.008>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Glucocorticoid receptor stimulation resulting from early life stress affects expression of DNA methyltransferases in rat prefrontal cortex**

Urb, Mari; Anier, Kaili; Matsalu, Terje; **Koppel, Indrek; Timmusk, Tõnis** Journal of molecular neuroscience 2019 / p. 99–110 : ill <https://doi.org/10.1007/s12031-019-01286-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Haruldane haigus võib anda viiteid skisofreenia raviks : [TTÜ professori Tõnis Timmuski ning kahe teaduri, Mari Sepa ja Priit Pruunsilla artikli põhjal]**

Aru, Erik; **Timmusk, Tõnis; Sepp, Mari; Pruunsild, Priit** Mente et Manu 2012 / lk. 2 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**High-intensity interval and moderate-intensity continuous training on cerebral energy metabolism in older rats.**

Marcourt, Cecile; Rivera, Claudio; **Tuvikene, Jürgen**; Langeard, Antoine; **Esvald, Eli-Eelika; Cabrera-Cabrera, Florencia; Timmusk, Tõnis; Temprado, Jean-Jacques**; Laurin, Jerome GeroScience 2025 / 16 p <https://doi.org/10.1007/s11357-025-01820-5>

**Human glial cell line-derived neurotrophic factor receptor alpha4 is the receptor for persephin, and is predominantly expressed in normal and malignant thyroid medullary cells**

Lindahl, Maria; Poteryaev, Dmitry; Yu, Liying; Arumäe, Urmas; **Timmusk, Tõnis**; Bongarzone, Italia; Aiello, Antonella; Pierotti, Marco A.; Airaksinen, Matti S.; **Saarma, Mart** Journal of biological chemistry 2001 / 12, p. 9344-9351 : ill <https://doi.org/10.1074/jbc.M008279200>

**Human TrkB gene : novel alternative transcripts, protein isoforms and expression pattern in the prefrontal cerebral cortex during postnatal development**

**Luberg, Kristi**; Wong, Jenny; Weickert, Cynthia Shannon; **Timmusk, Tõnis** Journal of neurochemistry 2010 / 4, p. 952-964 : ill <https://pubmed.ncbi.nlm.nih.gov/20193039/>

**Human tropomyosin-related kinase A and B : from transcript diversity to novel inhibitors = Inimese tropomüosiin-seoselised kinaasid A ja B : transkriptide mitmekesisusest uudeste inhibiitoriteni**

**Luberg, Kristi** 2017 <https://digi.lib.ttu.ee/i/27373> [https://www.ester.ee/record=b4665007\\*est](https://www.ester.ee/record=b4665007*est)

**Huntingtin interacts with REST/NRSF to modulate the transcription of NRSE-controlled neuronal genes**

Zuccato, Chiara; Tartari, Marzia; **Timmusk, Tõnis** Nature genetics 2003 / 1, p. 76-83 <https://pubmed.ncbi.nlm.nih.gov/12881722/>

**Identification of cis-elements and transcription factors regulating neuronal activity-dependent transcription of human BDNF gene**

**Pruunsild, Priit; Sepp, Mari; Orav, Ester; Koppel, Indrek; Timmusk, Tõnis** The journal of neuroscience 2011 / p. 3295-3308 : ill <https://pubmed.ncbi.nlm.nih.gov/21368041/>

**Immune response to a conserved enteroviral epitope of the major capsid VP1 protein is associated with lower risk of cardiovascular disease**

Pupina, Nadežda; **Avarlaid, Annela; Sadam, Helle**; Pihlak, Arno; **Jaago, Mariliis; Tuvikene, Jürgen; Rähni, Annika**; Planken, Anu; Planken, Margus; Kalso, Eija; Tienari, Pentti J.; Nieminen, Janne K.; Seppänen, Mikko R.J.; Vaheri, Antti; Lindholm, Dan; Sinisalo, Juha; Pussinen, Pirkko; **Timmusk, Tõnis; Palm, Kaia** eBioMedicine 2022 / art. 103835, 14 p. : ill <https://doi.org/10.1016/j.ebiom.2022.103835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Indole-like Trk receptor antagonists**

**Tammiku-Taul, Jaana; Park, Rahel; Jaanson, Kaur; Luberg, Kristi; Dobchev, Dimitar Atanasov; Kananovich, Dzmitry; Noole, Artur**; Mandel, Merle; Kaasik, Allen; **Lopp, Margus; Timmusk, Tõnis**; Karelson, Mati European journal of medicinal chemistry 2016 / p. 541-552 : ill <https://doi.org/10.1016/j.ejmech.2016.06.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Inimaju asümmeetriast, käelisusest ja skisofreeniast**

**Koppel, Indrek; Pruunsild, Priit; Timmusk, Tõnis** Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 109-112

**The intellectual disability and schizophrenia associated transcription factor TCF4 is regulated by neuronal activity and protein kinase A**

**Sepp, Mari; Vihma, Hanna; Nurm, Kaja; Urb, Mari**; Page, Stephanie Cerceo; **Roots, Kaisa; Hark, Anu**; Maher, Brady J.; **Pruunsild, Priit; Timmusk, Tõnis** Journal of neuroscience 2017 / p. 10516-10527 : ill <https://doi.org/10.1523/JNEUROSCI.1151-17.2017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Introducing Pitt-Hopkins syndrome-associated mutations of TCF4 to Drosophila daughterless**

**Tamberg, Laura; Sepp, Mari; Timmusk, Tõnis; Palgi, Mari** Biology open 2015 / p. 1762-1771 : ill <https://doi.org/10.1242/bio.014696> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Introducing Pitt-Hopkins Syndrome-associated mutations of TCF4 to Drosophila daughterless : [conference paper]**

**Palgi, Mari; Tamberg, Laura; Timmusk, Tõnis** VI Baltic Genetics Congress : September 30 - October 3, 2015, Institute of Molecular and Cell Biology, Tartu, Estonia : book of abstracts 2015 / 1 p

### **Intronic enhancer region governs transcript-specific Bdnf expression in rodent neurons**

**Tuvikene, Jürgen; Esvald, Eli-Eelika; Rähni, Annika; Uustalu, Kaie;** Zhuravskaya, Anna; **Avarlaid, Annela;** Makeyev, Eugene V.; **Timmusk, Tõnis** eLife 2021 / art. e65161 <https://doi.org/10.7554/eLife.65161> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Isoform-specific reduction of the basic helix-Loop-helix transcription factor TCF4 levels in Huntington's disease**

**Nurm, Kaja; Sepp, Mari;** Castany-Pladevall, Carla; Creus-Muncunill, Jordi; **Tuvikene, Jürgen; Sirp, Alex; Vihma, Hanna;** Blake, Derek J.; Perez-Navarro, Esther; **Timmusk, Tõnis** eNeuro 2021 / 53 p. : ill <https://doi.org/10.1523/ENEURO.0197-21.2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Keemia ja molekulaarbioloogia valdkonna aastapreemia tööde tsükli "Neuraalse aktiivsusega reguleeritud geeniekspressiooni mehhanismid" eest : Tõnis Timmusk. Neuraalse aktiivsusega reguleeritud geeniekspressiooni mehhanismid**

**Timmusk, Tõnis** Eesti Vabariigi preemiad 2020 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2020 / lk. 74-90 : ill., portr [https://www.ester.ee/record=b1226072\\*est](https://www.ester.ee/record=b1226072*est)

### **Kuidas totter kolm botaanikatunnis viis Tõnis Timmuski teaduse elutööpreemia ja teenetemärgini**

**Timmusk, Tõnis** postimees.ee 2024 [Kuidas totter kolm botaanikatunnis viis Tõnis Timmuski teaduse elutööpreemia ja teenetemärgini](#)

### **Käelisuse ja skisofreenia seostest**

**Timmusk, Tõnis** Horisont 2010 / 5, lk. 6 : portr [https://artiklid.elnet.ee/record=b2155629\\*est](https://artiklid.elnet.ee/record=b2155629*est)

### **Long-lasting behavioural and molecular alterations induced by early postnatal fluxetine exposure are restored by chronic fluxetine treatment in adult mice**

**Karpova, Nina N.; Lindholm, Jesse; Pruunsild, Priit; Timmusk, Tõnis;** Castren, Eero European neuropsychopharmacology 2009 / p. 97-108 : ill <https://pubmed.ncbi.nlm.nih.gov/18973993/>

### **LRRTM1 on chromosome 2p12 is a maternally suppressed gene that is associated paternally with handedness and schizophrenia**

**Francks, C.; Maegawa, S.; Timmusk, Tõnis; Pruunsild, Priit; Koppel, Indrek** Molecular psychiatry 2007 / p. 1129-1139 [https://www.researchgate.net/publication/6171287\\_LRRTM1\\_on\\_chromosome\\_2p12\\_is\\_a\\_maternally\\_suppressed\\_gene\\_that\\_is\\_associated\\_paternally\\_with\\_handedness\\_and\\_schizophrenia](https://www.researchgate.net/publication/6171287_LRRTM1_on_chromosome_2p12_is_a_maternally_suppressed_gene_that_is_associated_paternally_with_handedness_and_schizophrenia)

### **MANF is widely expressed in mammalian tissues and differently regulated after ischemic and epileptic insults in rodent brain**

**Lindholm, Päivi; Peränen, Johan; Andressoo, Jaan-Olle; Kalkkinen, Nisse; Kokaia, Zaal; Lindvall, Olle; Timmusk, Tõnis; Saarma, Mart** Molecular and cellular neuroscience 2008 / p. 356-371 : ill <https://pubmed.ncbi.nlm.nih.gov/18718866/>

### **Melanoma-specific antigen-associated antitumor antibody reactivity as an immune-related biomarker for targeted immunotherapies**

**Rähni, Annika; Jaago, Mariliis; Sadam, Helle;** Pupina, Nadežda; Pihlak, Arno; **Tuvikene, Jürgen;** Annuk, Margus; Mägi, Andrus; **Timmusk, Tõnis;** Ghaemmaghami, Amir M.; **Palm, Kaia** Communications medicine 2022 / 11 p. : ill <https://doi.org/10.1038/s43856-022-00114-7>

### **Meta-coexpression conservation analysis of microarray data: a "subset" approach provides insight into brain-derived neurotrophic factor regulation**

**Aid-Pavlidis, Tamara;** Pavlidis, Pavlos; **Timmusk, Tõnis** BMC genomics 2009 / p. 420 : ill <https://bmcbgenomics.biomedcentral.com/articles/10.1186/1471-2164-10-420>

### **Molecular characterization of basic helix-loop-helix transcription factor TCF4 : from expression to function = Aluselise heeliks-ling-heeliks transkriptsiooniteguri TCF4 ekspressiooni ja funktsiooni kirjeldamine**

**Sirp, Alex** 2023 <https://doi.org/10.23658/taltech.25/2023> <https://digikogu.taltech.ee/et/Item/67e0b91f-4c35-4eeb-ae4-5da8e859ae6e> [https://www.ester.ee/record=b5567490\\*est](https://www.ester.ee/record=b5567490*est)

### **Mouse and rat BDNF gene structure and expression revisited**

**Aid-Pavlidis, Tamara; Kazantseva, Anna; Piirsoo, Marko; Palm, Kaia; Timmusk, Tõnis** Journal of neuroscience research 2007 / 3, p. 525-535 <https://onlinelibrary.wiley.com/doi/full/10.1002/jnr.21139>

### **Neuralized family member NEURL1 is a ubiquitin ligase for the cGMP-specific phosphodiesterase 9A**

**Taal, Kati; Tuvikene, Jürgen; Rullinkov, Grete; Piirsoo, Marko; Sepp, Mari; Neuman, Toomas; Tamme, Richard; Timmusk, Tõnis** Scientific reports 2019 / art. 7104, 12 p. : ill <https://doi.org/10.1038/s41598-019-43069-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Neuralized-2: expression in human and rodents and interaction with Delta-like ligands**

**Rullinkov, Grete; Tamme, Richard; Sarapuu, Anzelika;** Lauren, Juha; **Sepp, Mari; Palm, Kaia; Timmusk, Tõnis** Biochemical and biophysical research communications 2009 / 3, p. 420-425 : ill <https://www.sciencedirect.com/science/article/pii/S0006291X09017434>

**Neuronal activity-dependent transcription factors and regulation of human BDNF gene = Närvitalitlusest sõltuvad transkriptsioonifaktorid ja inimese BDNF geeni avaldumise regulatsioon**

Pruunsild, Priit 2010 [https://www.ester.ee/record=b2653637\\*est](https://www.ester.ee/record=b2653637*est)

**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 K<sup>+</sup>/Cl<sup>-</sup> co-transporter (KCC2) transgenes lacking neurone restrictive silencer element recapitulate CNS neurone-specific expression and developmental up-regulation of endogenous KCC2 gene**

Uvarov, Pavel; Pruunsild, Priit; Timmusk, Tõnis; Airaksinen, Matti S. Journal of neurochemistry 2005 / 4, p. 1144-1155  
<https://pubmed.ncbi.nlm.nih.gov/16271048/>

**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>

**Neuronal-activity regulated gene expression : emphasis on BDNF**

Timmusk, Tõnis SpringerPlus 2015 / p. 11, L38 <http://dx.doi.org/10.1186/2193-1801-4-S1-L38>

**Neuronal-activity regulated gene expression: emphasis on BDNF**

Timmusk, Tõnis SpringerPlus 2015 / 32 p <https://doi.org/10.1186/2193-1801-4-S1-L38> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

**Neuron-specific Bcl-2 homology 3 domain-only splice variant of Bak is anti-apoptotic in neurons, but pro-apoptotic in non-neuronal cells**

Sun, Yun-Fu; Yu, Li-Ying; Saarma, Mart; Timmusk, Tõnis; Arumäe, Urmas Journal of biological chemistry 2001 / 19, p. 16240-16247 : ill <https://pubmed.ncbi.nlm.nih.gov/11278671/>

**Neurotrofiinid ja nende koht normis ja patoloogias**

Timmusk, Tõnis Tallinna Tehnikaülikooli aastaraamat 2004 2005 / lk. 46-49

**Neurotroofsed tegurid**

Timmusk, Tõnis; Koppel, Indrek; Pruunsild, Priit; Sepp, Mari; Tamme, Richard Eesti Arst 2007 / 9, lk. 614-621  
<https://eestiartst.ee/neurotroofsed-tegurid/> [https://artiklid.elnet.ee/record=b1059643\\*est](https://artiklid.elnet.ee/record=b1059643*est)

**Neurotrophins : transcription and translation**

West, A. E.; Pruunsild, Priit; Timmusk, Tõnis Neurotrophic factors 2014 / p. 67-100 [https://doi.org/10.1007/978-3-642-45106-5\\_4](https://doi.org/10.1007/978-3-642-45106-5_4)  
[Article collection metrics at Scopus](#) [Article at Scopus](#)

**NF-κB-dependent regulation of brain-derived neurotrophic factor in hippocampal neurons by X-linked inhibitor of apoptosis protein**

Kairisalo, Minna; Korhonen, Laura; Sepp, Mari; Pruunsild, Priit; Kukkonen, Jyrki; Kivinen, Jenni; Timmusk, Tõnis; Blomgren, Klas; Lindholm, Dan European journal of neuroscience 2009 / 6, p. 958-966 : ill <https://pubmed.ncbi.nlm.nih.gov/19735291/>

**A novel gene family encoding leucine-rich repeat transmembrane proteins differentially expressed in the nervous system**

Lauren, Juha; Airaksinen, Matti S.; Saarma, Mart; Timmusk, Tõnis Genomics 2003 / 4, p. 411-421 : ill  
<https://www.sciencedirect.com/science/article/pii/S0888754303000302>

**Novel neurotrophic factor CDNF protects and rescues midbrain dopamine neurons in vivo**

Lindholm, Päivi; Timmusk, Tõnis; Saarma, Mart Nature 2007 / p. 73-77 <https://doi.org/10.1038/nature05957>

**A novel N-terminal isoform of the neuron-specific K-Cl cotransporter KCC2**

Uvarov, Pavel; Ludwig, Anastasia; Markkanen, Marika; Pruunsild, Priit; Kaila, Kai; Delpire, Eric; Timmusk, Tõnis; Rivera, Claudio; Airaksinen, Matti S. Journal of biological chemistry 2007 / 42, p. 30570-30576 <https://pubmed.ncbi.nlm.nih.gov/17715129/>

**Novel transcripts reveal a complex structure of the human TRKA gene and imply the presence of multiple protein isoforms**

Luberg, Kristi; Park, Rahel; Aleksejeva, Elina; Timmusk, Tõnis BMC neuroscience 2015 / p. 1-21 : ill  
<https://doi.org/10.1186/s12868-015-0215-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Novel transgenic models based on bacterial artificial chromosomes for studying BDNF gene regulation = Bakteriaalsed kunstlikel kromosoomidel põhinevad transgeensed mudelid BDNF geeni regulatsiooni uurimiseks**

Jaanson, Kaur 2015 [https://www.ester.ee/record=b4494705\\*est](https://www.ester.ee/record=b4494705*est)

### **N-terminally truncated BAF57 isoforms contribute to the diversity of SW/SNF complexes in neurons**

Kazantseva, Anna; **Sepp, Mari**; Kazantseva, Jekaterina; Sadam, Helle; **Pruunsild, Priit**; **Timmusk, Tõnis**; Neuman, Toomas; Palm, Kaia Journal of neurochemistry 2009 / 3, p. 807-818 : ill <https://pubmed.ncbi.nlm.nih.gov/19245665/>

### **Nuclear factor of activated T-cells isoform c4 (NFATc4/NFAT3) as a mediator of anti-apoptotic transcription in NMDA receptor-stimulated cortical neurons**

Vashishta, Aruna; Habas, Agata; **Pruunsild, Priit**; Zheng, Jing-Juan; **Timmusk, Tõnis**; Hetman, Michal Journal of neuroscience 2009 / 48, p. 15331-15340 <https://pubmed.ncbi.nlm.nih.gov/19955386/>

### **Nucleolar enrichment of brain proteins with critical roles in human neurodevelopment**

Slomnicki, Lukasz P.; Malinowska, Agata; **Sepp, Mari**; **Timmusk, Tõnis** Molecular & cellular proteomics 2016 / p. 2055-2075 <https://doi.org/10.1074/mcp.M115.051920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Närvisüsteemi haiguste molekulaarsetest mehhanismidest : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile**

**Timmusk, Tõnis** Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 299-304

### **Partial deletion of TCF4 in three generation family with nonsyndromic intellectual disability, without features of Pitt-Hopkins syndrome**

Kharbanda, Mira; **Kannike, Kaja**; Lampe, Anne; Berg, Jonathan; **Timmusk, Tõnis**; **Sepp, Mari** European journal of medical genetics 2016 / p. 310-314 : ill <https://doi.org/10.1016/j.ejmg.2016.04.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **PCSK9 deficiency alters brain lipid composition without affecting brain development and function**

Päm, Angela; Olsen, Ditte; **Tuvikene, Jürgen**; Kaas, Mathias; Borisova, Ekaterina; Bilgin, Mesut; Elhauge, Mie; Vilstrup, Joachim; Madsen, Peder; Ambrozkiwicz, Mateusz C.; Goz, Roman U.; **Timmusk, Tõnis**; Tarabykin, Victor; Gustafsen, Camilla; Glerup, Simon Frontiers in molecular neuroscience 2023 / art. 1084633 <https://doi.org/10.3389/fnmol.2022.1084633> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **PGC-1 $\alpha$ signaling increases GABA(A) receptor subunit $\alpha$ 2 expression, GABAergic neurotransmission and anxiety-like behavior in mice**

Vanaveski, Taavi; Molchanova, Svetlana; Pham, Dan Duc; Schäfer, Annika; Pajanoja, Ceren; Narvik, Jane; Srinivasan, Vignesh; Urb, Mari; Koivisto, Maria; **Timmusk, Tõnis** Frontiers in Molecular Neuroscience 2021 / art. 588230 <https://doi.org/10.3389/fnmol.2021.588230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Pitt-Hopkins syndrome-associated mutations in TCF4 lead to variable impairment of the transcription factor function ranging from hypomorphic to dominant-negative effects**

**Sepp, Mari**; **Pruunsild, Priit**; **Timmusk, Tõnis** Human molecular genetics 2012 / p. 2873-2888 <https://pubmed.ncbi.nlm.nih.gov/22460224/>

### **Rakuvälise serotoniini tasemed ja neurotroofiliste faktorite ekspressioon kõrge või madala uudistamisaktiivsusega rottidel**

Harro, Jaanus; Mällo, Tanel; Kõiv, Kadri; **Koppel, Indrek**; Raudkivi, Karita; Uustare, Ain; Rinken, Ago; **Timmusk, Tõnis** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 32-33

### **Rat NEURL1 3'UTR is alternatively spliced and targets mRNA to dendrites**

Jaagura, Madis; Taal, Kati; **Koppel, Indrek**; **Tuvikene, Jürgen**; **Timmusk, Tõnis**; **Tamme, Richard** Neuroscience letters 2016 / p. 71-76 : ill <https://doi.org/10.1016/j.neulet.2016.10.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Regulation of different human NFAT isoforms by neuronal activity**

**Vihma, Hanna**; Luhakooder, Mirjam; **Pruunsild, Priit**; **Timmusk, Tõnis** Journal of neurochemistry 2016 / p. 394-408 : ill <https://doi.org/10.1111/jnc.13568> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Regulation of extracellular serotonin levels and brain-derived neurotrophic factor in rats with high and low exploratory activity**

Mällo, Tanel; Kõiv, Kadri; **Koppel, Indrek**; Raudkivi, Karita; Uustare, Ain; Rinken, Ago; **Timmusk, Tõnis**; Harro, Jaanus Brain research 2008 / p. 110-117 : ill <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2568862/>

### **Regulation of NFAT transcription factors by neuronal activity = NFAT tran[s]kriptsioonitegurite närvitalitlusest sõltuv regulatsioon**

**Vihma, Hanna** 2018 <https://digi.lib.ttu.ee/i/?9924> [https://www.ester.ee/record=b5050413\\*est](https://www.ester.ee/record=b5050413*est)

### **Revisiting the expression of BDNF and its receptors in mammalian development**

Esvald, Eli-Eelika; **Tuvikene, Jürgen**; Kiir, Carl Sander; Avarlaid, Annela; Tamberg, Laura; Sirp, Alex; Shubina, Anastassia; Cabrera-Cabrera, Florencia; Pihlak, Arno; **Koppel, Indrek**; Palm, Kaia; **Timmusk, Tõnis** Frontiers in Molecular Neuroscience

2023 / art. 1182499 <https://doi.org/10.3389/fnmol.2023.1182499> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The role of DNA methyltransferase activity in cocaine treatment and withdrawal in the nucleus accumbens of mice**  
Urb, Mari; Niinep, Kerly; Matsalu, Terje; Kipper, Karin; Herodes, Koit; Zharkovsky, Alexander; Timmusk, Tõnis; Anier, Kaili; Kalda, Anti *Addiction Biology* 2020 / art. e12720 <https://doi.org/10.1111/adb.12720> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The role of Enhancers in the regulation of brain-derived neurotrophic factor transcription = Enhanseralade roll aju-päritolu neurotroofse teguri transkriptsiooni regulatsioonis**  
Avarlaid, Annela 2024 [https://www.ester.ee/record=b5691778\\*est](https://www.ester.ee/record=b5691778*est) <https://digikogu.taltech.ee/et/Item/108d17a6-795d-4bc3-8e2b-95ba9585e849> <https://doi.org/10.23658/taltech.34/2024>

**Silmatorkamatu DNA jupp võib kujutada võtit ajuhaiguste leevendamiseks**  
novaator.err.ee 2023 [Silmatorkamatu DNA jupp võib kujutada võtit ajuhaiguste leevendamiseks](#) [Небольшой участок ДНК может стать ключом к лечению заболеваний мозга](#)

**Stimulus-Dependent Expression of Bdnf Is Mediated by ATF2, MYT1L, and EGR1 Transcription Factors**  
Esvald, Eli-Eelika; Moistus, Andra; Lehe, Karin; Avarlaid, Annela; Subina, Anastassia; Kuusemets, Liis; Tuvikene, Jürgen; Timmusk, Tõnis *Journal of Neuroscience* 2025 / art. e0313242025 <https://doi.org/10.1523/JNEUROSCI.0313-24.2025>

**Structure and regulation of BDNF gene = BDNF geeni struktuur ja regulatsioon**  
Aid-Pavlidis, Tamara 2010 [http://www.ester.ee/record=b2604919\\*est](http://www.ester.ee/record=b2604919*est)

**Structure, alternative splicing, and expression of the human and mouse KCNIP gene family**  
Pruunsild, Priit; Timmusk, Tõnis *Genomics* 2005 / 5, p. 581-593 <https://pubmed.ncbi.nlm.nih.gov/16112838/>

**Studies of the Drosophila basic helix-loop-helix transcription factor Daughterless and its mammalian homologue Transcription factor 4 = Äädikakärbse aluselise heeliks-ling-heeliks transkriptsioonifaktori Daughterless ja tema imetaja homoloogi Transkriptsioonifaktor 4 uuringud**  
Tamberg, Laura 2023 <https://doi.org/10.23658/taltech.44/2023> <https://digikogu.taltech.ee/et/Item/111b86e4-abe4-47d5-8bca-af7503d4ca24> [https://www.ester.ee/record=b5573303\\*est](https://www.ester.ee/record=b5573303*est)

**Subcellular localization and transcription regulatory potency of KCNIP/Calsenilin/DREAM/KChIP proteins in cultured primary cortical neurons do not provide support for their role in CRE-dependent gene expression**  
Pruunsild, Priit; Timmusk, Tõnis *Journal of neurochemistry* 2012 / p. 29-43

**Sumoylation regulates the transcriptional activity of different human NFAT isoforms in neurons**  
Vihma, Hanna; Timmusk, Tõnis *Neuroscience letters* 2017 / p. 302-307 : ill <https://doi.org/10.1016/j.neulet.2017.05.074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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)

**Teaduspreemia arstiteaduse alal publikatsioonide tsükli "Närvisüsteemi haiguste molekulaarsetest mehhanismidest" eest : Tõnis Timmusk**  
Timmusk, Tõnis *Eesti Vabariigi teaduspreemiad* 2008 2008 / lk. 98-109 : portr

**Tissue-specific and neural activity-regulated expression of human BDNF gene in BAC transgenic mice**  
Koppel, Indrek; Aid-Pavlidis, Tamara; Jaanson, Kaur; Sepp, Mari; Pruunsild, Priit; Palm, Kaia; Timmusk, Tõnis *BMC neuroscience* 2009 / p. 68 <https://psycnet.apa.org/record/2009-11273-001>

**Transcription factors FOXO3 and TCF4 in Huntington's disease = Transkriptsioonifaktorid FOXO3 ja TCF4 Huntingtoni tõves**  
Nurm, Kaja 2021 [https://www.ester.ee/record=b5469637\\*est](https://www.ester.ee/record=b5469637*est) <https://digikogu.taltech.ee/et/Item/07ffb222-9e0b-46ba-ace9-81f821b153a6> <https://doi.org/10.23658/taltech.55/2021>

**Transcriptional and translational regulation of brain-derived neurotrophic factor = Aju päritolu neurotroofse teguri transkriptsiooni ja translatsiooni regulatsioon**  
Tuvikene, Jürgen 2020 [https://www.ester.ee/record=b5392533\\*est](https://www.ester.ee/record=b5392533*est) <https://digikogu.taltech.ee/et/Item/4f057c26-5150-4380-a9a9-dab1ce4dc384>

**Transcriptional mechanisms of BDNF gene regulation = BDNF geeni avaldumise transkriptsioonilised mehhanismid**  
**Koppel, Indrek** 2013 [https://www.ester.ee/record=b3046255\\*est](https://www.ester.ee/record=b3046255*est)

**TTÜ geeniteadlased muugivad haruldast haigust, mida põeb viis inimest miljonist**

**Tammeorg, Teele; Timmusk, Tõnis** Eesti Päevaleht 2016 / lk. 22-23 <https://epl.delfi.ee/artikkel/74154749/ttu-geeniteadlased-muugivad-haruldast-haigust-mida-poeb-viis-inimest-miljonist>

**Two novel mammalian nogo receptor homologs differentially expressed in the central and peripheral nervous systems**

Lauren, Juha; Airaksinen, Matti S.; **Saarma, Mart; Timmusk, Tõnis** Molecular and cellular neuroscience 2003 / 3, p. 581-594  
<https://www.sciencedirect.com/science/article/pii/S1044743103001994>

**2-Deoxyglucose drives plasticity via an adaptive ER stress-ATF4 pathway and elicits stroke recovery and Alzheimer's resilience**

Kumar, Amit; Karuppagounder, Saravanan S.; Chen, Yingxin; Corona, Carlo; Kawaguchi, Riki; Chen, Yuyan; Balkaya, Mustafa; Sagdullaev, Botir T.; Wen, Zhexiong; Stuart, Charles; Cho, Sunghee; Ming, Guo-li; **Tuvikene, Jürgen; Timmusk, Tõnis**; Geschwind, Daniel H.; Ratan, Rajiv R. Neuron 2023 / p. 2831-2846 : ill <https://doi.org/10.1016/j.neuron.2023.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Untranslated regions of brain-derived neurotrophic factor (Bdnf) mRNA control its translatability and subcellular localization**

**Lekk, Ingrid; Cabrera-Cabrera, Florencia**; Turconi, Giorgio; **Tuvikene, Jürgen; Esvald, Eli-Eelika; Rähni, Annika**; Casserly, Laoise; Garton, Daniel R.; Andressoo, Jaan-Olle; **Timmusk, Tõnis; Koppel, Indrek** The journal of biological chemistry 2023 / art. 102897 <https://doi.org/10.1016/j.jbc.2023.102897> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An upstream enhancer and MEF2 transcription factors fine-tune the regulation of the Bdnf gene in cortical and hippocampal neurons**

**Avarlaid, Annela; Falkenberg, Kaisa; Lehe, Karin**; Mudo, Giuseppa; Belluardo, Natale; Di Liberto, Valentina; Frinchi, Monica; **Tuvikene, Jürgen; Timmusk, Tõnis** Journal of biological chemistry 2024 / art. 107411, 12 p. : ill <https://doi.org/10.1016/j.jbc.2024.107411> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Usage of bacterial artificial chromosomes for studying BDNF gene regulation in primary cultures of cortical neurons and astrocytes**

Jaanson, Kaido; Pärn, Angela; **Timmusk, Tõnis** Brain-derived neurotrophic factor (BDNF) 2019 / p. 13-25  
[https://doi.org/10.1007/7657\\_2018\\_10](https://doi.org/10.1007/7657_2018_10) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Valu lülitid, plahvatavad kärbsed ja teadvuse rakud**

**Maran, Kaur** Postimees 2020 / Lk. 2-3 : portr <https://dea.digar.ee/article/ak/2020/10/17/2.1>