

A novel method for monitoring surface membrane trafficking on hippocampal acute slice preparation

Thomas-Crusells, J.; Vieira, A.; **Saarma, Mart**; Rivera, Claudio Journal of neuroscience methods 2003 / 1/2, p. 159-166
<https://www.sciencedirect.com/science/article/pii/S0165027003000505>

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](#)

Aluselise heeliks-heeliks transkriptsioonifaktori TCF4 ekspressiooni vaigistamine RNA interferentsi meetodil

Urb, Mari TTÜ üliõpilaste teadustööde konkursi kokkuvõtted : Tipika teaduskonverents, 24. november 2011, Tallinn 2011 / lk. 7

Antioxidative CXXC peptide motif from mesencephalic astrocyte-derived neurotrophic factor antagonizes programmed cell death

Božok, Valentina; Yu, Li-Ying; **Palgi, Jaan**; **Arumäe, Urmas** Frontiers in cell and developmental biology 2018 / 15 p. : ill <https://doi.org/10.3389/fcell.2018.00106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Axons' signals

Engelbrecht, Jüri; Tamm, Kert; **Peets, Tanel** Horizons in neuroscience research ; 49 2023 / p. 33-73
<https://novapublishers.com/shop/horizons-in-neuroscience-research-volume-49/>

B-plexins regulate the maturation of neurons through microtubule dynamics = B-pleksiinid mõjutavad mikrotorukeste liikumise kaudu närvirakkude küpsemist

Laht, Piret 2015 <https://digi.lib.ttu.ee/i/?3427>

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

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](#)

Cryptic organisation within an apparently irregular rostrocaudal distribution of interneurons in the embryonic zebrafish spinal cord

Wells, Simon; Conran, John; **Tamme, Richard**; Gaudin, Arnaud; Webb, Jonathan; Lardelli, Michael Experimental cell research 2010 / 19, p. 3292-3303 : ill <https://www.sciencedirect.com/science/article/pii/S0014482710003411>

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](#)

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](#)

Electrochemical detection of brain-derived neurotrophic factor by molecularly-imprinted polymer on screen-printed electrode

Kidakova, Anna; **Boroznjak, Roman**; **Reut, Jekaterina**; **Öpik, Andres**; **Sõritski, Vitali** The 10th International Conference on Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p. : ill <https://events.eventact.com/programview2/Agenda/Lecture/175959?code=3635110>

Elu ja surm närvisüsteemis

Saarma, Mart Rahvusvaheline konverents Inimteadvus ja käitumine muutavas maailmas : 14.-15. oktoober 2004 : Rahvusraamatukogu Konverentsikeskus, Tallinn, Eesti 2004 / lk. 103-104

Elu ja surm närvisüsteemis : [ettekanne Eesti Teaduste Akadeemia üldkogu aastakoosolekul 21. aprillil 2004]

Saarma, Mart Eesti Teaduste Akadeemia aastaraamat 2004 2005 / lk. 60-68 : ill

An evolutionary field theorem : evolutionary field optimization in training of power-weighted multiplicative neurons for

nitrogen oxides-sensitive electronic nose applications

Alagoz, Baris Baykant; Simsek, Ozlem Imik; Ari, Davut; **Tepljakov, Aleksei; Petlenkov, Eduard; Alimohammadi, Hossein** Sensors 2022 / art. 3836 <https://doi.org/10.3390/s22103836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Expression and sequence homology of GDNF family receptors suggest roles in cell-cell interactions

Airaksinen, Matti S.; Suvanto, P.; Moshnyakov, M.; **Saarma, Mart** The Third International Meeting : Hirschsprung Disease and Related Neurochristopathies, Evian, February 5-8, 1998 1998 / p. 7

Fingerprint recognition for varied degrees of image distortion using three-rate hybrid Kohonen neural network

Astrov, Igor; Tatarly, Sergei; Tatarly, Svetlana Proceedings of 2008 International Conference on Audio, Language and Image Processing (ICALIP 2008 : Shanghai, China, July 7-9, 2008). 1 2008 / p. 363-369 <https://ieeexplore.ieee.org/document/4590098>

Functional characterization of two splice variants of rat Bad and their interaction with Bcl-w in sympathetic neurons

Hamner, S.; Arumäe, Urmas; Li-Ying, Y.; Sun, Yun-Fu; **Saarma, Mart**; Lindholm, Dan Molecular and cellular neurosciences 2001 / p. 97-106 <https://pubmed.ncbi.nlm.nih.gov/11161472/>

GDNF family ligands activate multiple events during axonal growth in mature sensory neurons

Paveliev, Mikhail; Airaksinen, Matti S.; **Saarma, Mart** Molecular and cellular neuroscience 2004 / 3, p. 453-459 <https://www.sciencedirect.com/science/article/pii/S1044743103003646>

Glial cell line-derived neurotrophic factor rescues target-deprived sympathetic spinal cord neurons but requires transforming growth factor-beta as co-factor in vivo

Schober, A.; Hertel, R.; Arumäe, Urmas; Farkas, L.; Jaszai, J.; Kriegstein, K.; **Saarma, Mart**; Unsicker, K. Journal of neuroscience 1999 / p. 2008-2015 <https://www.jneurosci.org/content/19/6/2008.abstract>

Gliiarakud - aju varjatud pool

Koppel, Indrek Horisont 2025 / lk. 8-11 : ill https://www.ester.ee/record=b1072243*est

Histone bivalency in CNS development

Mätlik, Kärt; Govek, Eve-Ellen; Hatten, Mary E. Genes & Development 2025 / 17 p <https://doi.org/10.1101/gad.352306.124>

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/>

Increased extracellular dopamine concentrations and FosB/DeltaFosB expression in striatal brain areas of heterozygous GDNF knockout mice

Airavaara, Mikko; Planken, Anu; Gäddnäs, Helena; Piepponen, Timo Petteri; **Saarma, Mart**; Ahtee, Liisa European journal of neuroscience 2004 / 9, p. 2336-2344 : ill <https://pubmed.ncbi.nlm.nih.gov/15525275/>

Integrated and organized cellular bioenergetic systems in heart and brain

Anmann, Tiia 2007 http://www.ester.ee/record=b2281020*est

Intellekt on võime ennustada

Kirt, Toomas Horisont 2006 / 3, lk. 40-43 : ill <https://cs.ioc.ee/excs/popular/kirt-horisont306.pdf>

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](#)

Kas tõesti tehisaju?

Mägi, Vahur Horisont 1968 / lk. 64-67 : ill https://www.ester.ee/record=b1347160*est <https://www.digar.ee/arhiiv/et/periodika/70103>

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

Mart Saarma pälvis Soome preemia

Postimees 2003 / lk. 8 <https://www.postimees.ee/1996157/mart-saarma-palvis-soome-suurima-meditiinipreemia>

Mart Saarma tööühm avastas ajurakke kaitsva valgu

Kändler, Tiit Eesti Päevaleht 2007 / lk. 24 <https://www.postimees.ee/1682065/mart-saarma-tooruhm-avastas-ajurakke-kaitsva-valgu>

Mathematical and physical modelling of dynamic electrical impedance = Dünaamilise impedantsi matemaatiline ja füüsikaline modelleerimine

Giannoukos, Georgios 2016 <https://digi.lib.ttu.ee/ii/?5654> https://www.ester.ee/record=b4579206*est

Mathematical and physical modelling of the dynamic electrical impedance both of a healthy neuron and one affected by Parkinson's disease

Giannoukos, Georgios Advances in applied information science : proceedings of the 12th WSEAS International Conference on Applied Informatics and Communications (AIC '12) : proceedings of the 5th WSEAS International Conference on Biomedical Electronics and Biomedical Informatics (BEBI '12) : Istanbul, Turkey, August 21-23, 2012 2012 / p. 79-84 : ill https://www.researchgate.net/publication/264128963_Mathematical_and_Physical_Modelling_of_the_Dynamic_Electrical_Impedance_of_a_Neuro

Mathematical and physical modelling of the dynamic electrical impedance of a neuron

Giannoukos, Georgios; Min, Mart International journal of circuits, systems and signal processing 2012 / p. 359-366 : ill https://www.researchgate.net/publication/264128963_Mathematical_and_Physical_Modelling_of_the_Dynamic_Electrical_Impedance_of_a_Neuro

Microarray analysis reveals increased transcriptional repression and reduced metabolic activity but not major changes in the core apoptotic machinery during maturation of sympathetic neurons

Raba, Mikk; Palgi, Jaan; Lehtivaara, Maria; Arumäe, Urmas Frontiers in cellular neuroscience 2016 / art. 66, p. 1-13 : ill <https://doi.org/10.3389/fncel.2016.00066> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Missense mutations in the extracellular domain of the human neural cell adhesion molecule L1 reduce neurite outgrowth of murine cerebellar neurons

Michelson, P.; Veske, Andres Human mutations 2002 / 6, p. 481-482 <https://pubmed.ncbi.nlm.nih.gov/12442287/>

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

Molecularly imprinted polymer-based sensor for label-free detection of a neurotrophic factor protein - cerebral dopamine neurotrophic factor

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali The 10th International Conference on Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p <https://events.eventact.com/programview2/Agenda/Lecture/174899?code=3666033>

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>

Multiple mechanisms repress N-Bak mRNA translation in the healthy and apoptotic neurons

Jakobson, Madis; Jakobson, Maili; Llano, Olaya; Palgi, Jaan; Arumäe, Urmas Cell Death and Disease 2013 / art. e777 <https://doi.org/10.1038/cddis.2013.297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mutational analysis of N-Bak reveals different structural requirements for antiapoptotic activity in neurons and proapoptotic activity in nonneuronal cells

Sun, Yun-Fu; Yu, Li-Ying; Saarma, Mart; Arumäe, Urmas Molecular and cellular neuroscience 2003 / 1, p. 134-143 : ill <https://www.sciencedirect.com/science/article/pii/S104474310300023X>

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

Neuronal K⁺/Cl⁻ 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/>

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

Neurotroofilised faktorid - võti neuronite elu ja surma ning mälu ja mõtlemise mõistmiseks

Saarma, Mart; Arumäe, Urmas Eesti aastaraamat 2006-2007 2006 / lk. 381-398 : ill., portr

Neurotrophic factors - a key to understanding neuronal life and death - and memory and thinking : what are the neurotrophic factors and how do they regulate neurons?

Saarma, Mart; Arumäe, Urmas Estonia : member state of NATO and the EU : international business handbook 2007-2008 2007 / p. 191-207 : ill., portr https://www.ester.ee/record=b2288232*est

Neurotrophin-3 is a target-derived neurotrophic factor for penile erection-inducing neurons

Hiltunen, J.O.; Laurikainen, A.; Klinge, E.; **Saarma, Mart** Neuroscience 2005 / 1, p. 51-58
<https://www.sciencedirect.com/science/article/pii/S0306452205000965>

Neurturin is a neurotrophic factor for penile parasympathetic neurons in adult rat

Laurikainen, A.; Hiltunen, J.O.; Thomas-Crusells, J.; Vanhatalo, S.; Arumäe, Urmas; Airaksinen, Matti S.; Klinge, E.; **Saarma, Mart** Journal of neurobiology 2000 / p. 198-205 <https://pubmed.ncbi.nlm.nih.gov/10770848/>

New family of neurotrophic factors with great therapeutic potential

Saarma, Mart; Arumäe, Urmas Estonia : member state of NATO and the EU : international business handbook 2011-2012 2011 / p. 192-207 : ill

NF- κ B-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/>

Novel functions and signalling pathways for GDNF

Sariola, H.; **Saarma, Mart** Journal of cell science 2003 / 19, p. 3855-3862 <https://pubmed.ncbi.nlm.nih.gov/12953054/>

Novel GDNF receptors

Saarma, Mart Eesti Arst 2001 / Lisa 3, lk. 8 https://artiklid.elnet.ee/record=b1030508*est

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

Jaanson, Kaur 2015 https://www.ester.ee/record=b4494705*est

N-terminally truncated BAF57 isoforms contribute to the diversity of SWI/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/>

Närvirakkude ühendustest, elust ja surmast

Saarma, Mart Horisont 2007 / lk. 20-23 https://artiklid.elnet.ee/record=b2039956*est

P75 neurotrophin receptor signaling activates sterol regulatory element-binding protein-2 in hepatocyte cells via p38 mitogen-activated protein kinase and caspase-3

Pham, Dan Duc; Do, Hai Thi; Bruelle, Céline; Kukkonen, Jyrki P.; Eriksson, Ove; Mogollón, Isabel; Korhonen, Laura T.; **Arumäe, Urmas**; Lindholm, Dan Journal of Biological Chemistry 2016 / p. 10747 - 10758 <https://doi.org/10.1074/jbc.M116.722272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Plexin B3 promotes neurite outgrowth, interacts homophilically, and interacts with Rin

Hartwig, C.; **Veske, Andres**; Krejcova, S.; Rosenberger, G.; Finckh, U. BMC neuroscience 2005 / p. 53
https://www.researchgate.net/publication/7639118_Plexin_B3_promotes_neurite_outgrowth_interacts_homophilically_and_interacts_with_Rin

Plexin-B3 interacts with EB-family proteins through a conserved motif

Laht, Piret; Pill, Kaie; Haller, Elina; Veske, Andres Biochimica et biophysica acta 2012 / p. 888-893 : ill
<https://www.sciencedirect.com/science/article/pii/S0304416512000396>

Plexin-B3 interacts with EB-family proteins through a conserved motif

Laht, Piret; Pill, Kaie; Haller, Elina; **Veske, Andres** EMBO Conference Series "Microtubules : Structure, Regulation and Functions" Heidelberg, Germany : 23 May - 26 May 2012 2012 <https://www.sciencedirect.com/science/article/pii/S0304416512000396>

Plexin-B3 suppresses excitatory and promotes inhibitory synapse formation in rat hippocampal neurons

Laht, Piret; Tammaru, Epp; Otsus, Maarja; **Rohtla, Johan; Tiismus, Liivi; Veske, Andres** Experimental cell research 2015 / p. 269-278 : ill <https://doi.org/10.1016/j.yexcr.2015.05.007> [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](#)

Rescue of hearing, auditory hair cells, and neurons by CEP-1347/KT7515, and inhibitor of c-Jun N-terminal kinase activation

Pirvola, Ulla; Xing-Qun, L.; Virkkala, J.; **Saarma, Mart;** Murakata, C.; Camoratto, A.M.; Walton, K.M.; Ylikoski, Jukka Journal of neuroscience 2000 / p. 43-50 <https://pubmed.ncbi.nlm.nih.gov/10627579/>

Role of two sequence motifs of mesencephalic astrocyte-derived neurotrophic factor in its survival-promoting activity

Mätlik, Kert; Yu, Li-Ying; Eesmaa, Ave; **Arumäe, Urmas** Cell death & disease 2015 / art. e2032, p. 1-8 : ill <https://doi.org/10.1038/cddis.2015.371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Seizures induce widespread upregulation of cystatin B, the gene mutated in progressive myoclonus epilepsy, in rat forebrain neurons

D'Amato, E.; Kokaia, Zaal; Nanobashvili, A.; Reeben, M.; Lehesjoki, A.-E.; **Saarma, Mart;** Lindvall, O. European journal of neuroscience 2000 / p. 1687-1695 <https://pubmed.ncbi.nlm.nih.gov/10792446/>

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, Jurgen; Timmusk, Tõnis Journal of Neuroscience 2025 / art. e0313242025 <https://doi.org/10.1523/JNEUROSCI.0313-24.2025>

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](#)

Synaptogenesis upregulates KCC2 expression in cultured hippocampal neurons

Ludwig, Anastasia; **Saarma, Mart;** Kaila, Kai; Rivera, Claudio The 3rd Forum of European Neuroscience 2002 / p. 078.13

TAF4 controls differentiation of human neural progenitor cells through hTAF4-TAFH activity

Kazantseva, Jekaterina; Tints, Kairit; Neuman, Toomas; **Palm, Kaia** Journal of molecular neuroscience 2015 / p. 160-166 : ill <https://doi.org/10.1007/s12031-014-0295-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The regulatory landscape of cells in the developing mouse cerebellum [Online resource]

Sarropoulos, Ioannis; **Sepp, Mari;** Frömel, Robert; Leiss, Kevin; Trost, Nils bioRxiv 2021 / 55 p. : ill <https://doi.org/10.1101/2021.01.29.428632>

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>

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://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

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 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Uuring: seni kasutuks peetud DNA toetab närvirakkude taastumist

novaator.err.ee 2025 <https://novaator.err.ee/1609700370/uuring-seni-kasutuks-peetud-dna-toetab-narvirakkude-taastumist>

Быстрая перестройка активного цитоскелета в клетках феохромоцитомы РС12 под действием фактора роста нервов : автореферат... кандидата биологических наук (03.00.11)

Paves, Heiti 1989 https://www.ester.ee/record=b1250866*est