

Avastati uus ajule tähtis DNA element

Imeline Teadus 2023 / lk. 21 https://www.ester.ee/record=b2747925*est

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](#)

B-plexins control microtubule dynamics and dendritic morphology in co-operation with end-binding proteins

Laht, Piret; Pill, Kaie; Haller, Elina; Remm, Jaanus; Veske, Andres Semaphorin function & mechanism of action : EMBO workshop : 29-31 October 2013, Cernay-la-Ville, France 2013

B-plexins control microtubule dynamics and dendrite morphology of hippocampal neurons

Laht, Piret; Otsus, Maarja; Remm, Jaanus; Veske, Andres Experimental cell research 2014 / p. 174-184 : ill
<https://doi.org/10.1016/j.yexcr.2014.06.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cell-type-specific expression of the TFIID 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>

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](#)

Design of AChE reactivators using versatile molecular platforms and nanodiamonds

Karpichev, Yevgen; Kapitanov, Illia; Bondar, Denys; Mochalin, Vadym 15th International Meeting on Cholinesterases, 9th International Conference on Paraoxonases : Programme and Book of Abstracts 2024 / p. 92 https://www.chepon2024.com/wp-content/uploads/2024/09/CHEPON2024_Book_of_Abstracts.pdf

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

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](#)

Elu ja surm närvisüsteemis

Saarma, Mart Rahvusvaheline konverents Inimteadvus ja käitumine muutvas 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

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/>

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>

GDNF receptors as a drug target for neural repair

Bespalov, Maxim M.; Hetenyi, C.; Karelson, Mati; Saarma, Mart Cell transplantation 2007 / 3, p. 313-314
https://www.researchgate.net/publication/295730047_GDNF_receptors_as_a_drug_target_for_neural_repair

Glial cell line-derived neurotrophic factor is expressed in penis of adult rat and retrogradely transported in penile parasympathetic and sensory nerves

Laurikainen, A.; Hiltunen, J.O.; Vanhatalo, S.; Klinge, E.; Saarma, Mart Cell and tissue research 2000 / p. 321-329
<https://pubmed.ncbi.nlm.nih.gov/11151444/>

Heart rate variability in relation of autonomic dysfunctions of nervous system

Vilkis, A.; Tuulik, Viuu; Agudin, V.; Altrov, Epp Proceedings of the 13th Triennial Congress of the International Ergonomics Association, June 29-July 4, 1997, Tampere : From Experience to Innovation : IEA'97. Vol. 7 1997 / p. 583

Human peripheral blood eosinophils express high levels of the purinergic receptor P2X4

Paalme, Viuu; Rump, Airi; Mädo, Kati; Teras, Marina; Truumees, Birgit; Aitai, Helen; Ratas, Kristel; **Teras, Jüri; Rüütel Boudinot, Sirje** *Frontiers in immunology* 2019 / art. 2074, 15 p. : ill <https://doi.org/10.3389/fimmu.2019.02074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Luberg, Kristi 2017 <https://digi.lib.ttu.ee/i/?7373> https://www.ester.ee/record=b4665007*est

Influence of low-level microwave radiation on nerve pulse conduction velocity

Hinrikus, Hiie; Lass, Jaanus; Karai, Deniss; Kalda, Jaak; **Tomson, Ruth; Tuulik, Viuu** *Biological Effects of EMFs 3rd International Workshop : Kos, Greece, 4-8 October 2004 : proceedings. Volume 2 2004 / p. 641-648* : ill

Interaction of low-level microwave radiation with nervous system - a quasi-thermal effect?

Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viuu *Proceedings of the Estonian Academy of Sciences. Engineering* 2004 / 2, p. 82-94

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](#)

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>

Kasutuks peetud DNA on närvirakkudele toeks

Imeline Teadus 2025 / lk. 18 https://www.ester.ee/record=b2747925*est

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

Kõrv kikkis või hoopis sarvekesed peas : [elektromagnetvälja mõjust inimese närvisüsteemile : intervjuu Hiie Hinrikusega]

Hinrikus, Hiie; Ummelas, Mart *Mente et Manu* 2001 / 6. veebr., lk. 3 : fot https://www.ester.ee/record=b1242496*est

Low level microwave interaction with nervous system

Hinrikus, Hiie; Riipulk, Jevgeni; Tuulik, Viuu *Physica medica* 1996 / 3, p. 162

Low-level microwave effect on nerve pulse propagation velocity

Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viuu *Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 25, A New Beginning for Human Health : volume 4 of 4 : 17-21 September 2003, Cancun, Mexico* 2003 / p. 3253-3256 : ill <https://doi.org/10.1109/IEMBS.2003.1280837>

Low-level microwave effects on nervous system

Hinrikus, Hiie; Lass, Jaanus; Meigas, Kalju; Tuulik, Viuu *Biological Effects of EMFs : Heraklio, Crete, Greece 17-20 October, 2000 : proceedings* 2000 / p. 320-329 : ill

Low-level microwave radiation effect on nerve pulse conduction velocity

Hinrikus, Hiie; Tomson, Ruth; Lass, Jaanus; Karai, Deniss; Kalda, Jaak; **Tuulik, Viuu** *The environmentalist* 2005 / 2/4, p. 157-163 https://www.researchgate.net/publication/227333897_Low-Level_Microwave_Radiation_Effect_on_Nerve_Pulse_Conduction_Velocity

Mathematics of nerve signals

Peets, Tanel; Tamm, Kert *Applied wave mathematics II : selected topics in solids, fluids, and mathematical methods and complexity* 2019 / p. 207-238 https://doi.org/10.1007/978-3-030-29951-4_10 https://www.ester.ee/record=b5303400*est

Microfluidic droplet classification through tuned convolutional neural network on a resource constrained platform

Afrin, Fariha; Le Moullec, Yannick; Pardy, Tamas 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p <https://doi.org/10.1109/BEC61458.2024.10737958> [Conference proceedings at Scopus](#) [Article at Scopus](#) [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/>

Modulated microwave effects on the nervous system

Hinrikus, Hiie; Riipulk, Jevgeni Medical & biological engineering & computing : journal of the International Federation for Medical & Biological Engineering. Part 2, Proceedings of the 1st International Conference on Bioelectromagnetism 1996 / p. 129-130
https://www.ester.ee/record=b1292531*est

The neural network classification algorithms with applications to averaged EEG data

Raja, Aimur; Tuulik, Viuu; Lossmann, Eerik; Meister, Ants The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 347-348

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>

Neurotrofiinid ja nende koht normis ja patoloogias

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

Neurotrofiset kasvutekijät hermoston kehityksessä ja muovautumisessa

Airaksinen, Matti S.; Arumäe, Urmas; Rauvala, H.; Saarma, Mart Duodecim 1999 / p. 595-605

Non-thermal effect of microwave radiation on human brain

Hinrikus, Hiie; Bachmann, Maie; Tomson, Ruth; Lass, Jaanus The environmentalist 2005 / 2/4, p. 187-194

https://www.researchgate.net/publication/227317313_Non-Thermal_Effect_of_Microwave_Radiation_on_Human_Brain

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 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](#)

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/>

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](#)

Närvirakkude kasvu ergutajad ja piirajad

Sirp 2020 / lk. 14-15 : portr <https://www.sirp.ee/s1-artiklid/c21-teadus/teaduse-aastapreemia-narvirakkude-kasvu-ergutajad-ja-piirajad/>

https://www.ester.ee/record=b1072938*est

Närvirakkude ühendustest, elust ja surmast

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

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 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

Relationship of the correlation between EEG and heart rate variability with cardiovascular indicators

Vihmaru, Merilin; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Põld, Toomas; Bachmann, Maie 9th European Medical and Biological Engineering Conference : Proceedings of EMBEC 2024 ; Volume 2 2024 / p. 266 - 273

<https://www.springerprofessional.de/en/relationship-of-the-correlation-between-eeeg-and-heart-rate-varia/27164904> https://doi.org/10.1007/978-3-031-61628-0_29 [Conference proceedings at Scopus](#) [Article at Scopus](#) [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://digikogu.taltech.ee/et/Item/108d17a6-795d-4bc3-8e2b-95ba9585e849> <https://doi.org/10.23658/taltech.34/2024>

Study of effects of low level microwave field by method of face masking

Rodina, Anastasia; Lass, Jaanus; Riipulk, Jevgeni; Bachmann, Talis; Hinrikus, Hiie Bioelectromagnetics 2005 / p. 571-577
<https://pubmed.ncbi.nlm.nih.gov/16142782/>

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

The effect of static magnetic field on heart rate variability - an experimental study

Koppel, Tarmo; Vilcane, Inese; Carlberg, Michael; Tint, Piia Agronomy research 2015 / p. 765-774 : ill
https://alephfiles.rtu.lv/TUA01/000048351_e.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

The messenger RNAs for both glial cell line-derived neurotrophic factor receptors, C-ret and GDNFR, are induced in the rat brain in response to Kainate-induced excitation

Reeben, M.; Laurikainen, A.; Hiltunen, J.O.; Castren, Eero; **Saarma, Mart** Neuroscience 1998 / p. 151-159

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>

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](#)

О влиянии солнечной активности на жизнедеятельность и условия труда человека. (Часть 2)

Vössotski, Svjatoslav Актуальные вопросы охраны труда и правовой охраны промышленной собственности 1989 / с. 3-9