

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/>

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](#)

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](#)

Dopamine crossreacts with adrenoceptors 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](#)

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](#)

Geneetik Andres Veske (4.7.1965 – 23.10.2022) [Võrguväljaanne]

Tamme, Richard; Koppel, Indrek *postimees.ee* 2022 [Geneetik Andres Veske \(4.7.1965 – 23.10.2022\)](#)

Gliiarakud - aju varjatud pool

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

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](#)

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/>

Inimaju asümmeetriast, käelisusest ja skisofreeniast

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

Locally translated mTOR controls axonal local translation in nerve injury

Terenzio, Marco; Koley, Sandip; Samra, Nitzan; Koppel, Indrek *Science* 2018 / p. 1416-1421 : ill <http://dx.doi.org/10.1126/science.aan1053>

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

Neurotroofsed tegurid

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

Omics approaches for subcellular translation studies

Koppel, Indrek; Fainzilber, Mike *Molecular omics* 2018 / p. 380–388 : ill <http://dx.doi.org/10.1039/c8mo00172c>

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*

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 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/>

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 glycine arginine-rich domain of the RNA-binding protein nucleolin regulates its subcellular localization

Doron-Mandel, Ella; **Koppel, Indrek**; Abraham, Ofri; Rishal, Ida The EMBO Journal 2021 / art. e107158 <https://doi.org/10.15252/embj.2020107158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 mechanisms of BDNF gene regulation = BDNF geeni avaldumise transkriptsioonilised mehhanismid

Koppel, Indrek 2013 https://www.ester.ee/record=b3046255*est

Translatome regulation in neuronal injury and axon regrowth

Rozenbaum, Meir; Rajman, Marek; Rishal, Ida; **Koppel, Indrek** eNeuro 2018 / art. e0276-17.2018, 15 p. : ill <http://dx.doi.org/10.1523/ENEURO.0276-17.2018>

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](#)

Uued inimesed ja positsioonid

Koppel, Indrek; Mazina-Šinkar, Jekaterina; Soe, Ralf-Martin; Ošeka, Maksim; Kritševskaja, Marina; Reidolf, Merli; Laasmaa, Martin; Puura, Erik; Läänelaid, Mihkel; Hadzihasanovic, Amar Mente et Manu 2023 / lk. 51-55 : fot https://www.ester.ee/record=b1242496*est

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>

Valmistudes teiseks laineks: Iisraeli õppetunnid

Koppel, Indrek Postimees 2020 / Lk. 15 : portr <https://leht.postimees.ee/7016165/indrek-koppel-valmistudes-teiseks-laineks-iisraeli-oppetunnid> <https://dea.digar.ee/article/postimees/2020/07/13/13.2>

генетик АНДРЕС БЕККЕ (4.7.1965 - 23.10.2022) [Online resource]

Tamme, Richard; Koppel, Indrek rus.postimees.ee 2022 [генетик АНДРЕС БЕККЕ \(4.7.1965 - 23.10.2022\)](https://rus.postimees.ee/7016165/indrek-koppel-valmistudes-teiseks-laineks-iisraeli-oppetunnid)