

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

Alternative splicing of TAF4 : a dynamic switch between distinct cell functions = TAF4 alternatiivne splaining kui raku funktsioonide dünaamilise reguleerimise lüüti

Kazantseva, Jekaterina 2014 https://www.ester.ee/record=b4437535*est

Aluselise heeliks-ling-heeliks transkriptsioonifaktori TCF4 ekspressiooni vaigistamine RNA interferentsi meetodil

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

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](#)

Basic helix-loop-helix pioneer factors interact with the histone octamer to invade nucleosomes and generate nucleosome-depleted regions

Donovan, Benjamin T.; Chen, Hengye; Eek, Priit; Meng, Zhiyuan; Jipa, Caroline; Tan, Song; Bai, Lu; Poirier, Michael G. Molecular cell 2023 / p. 1251-1263.e6 <https://doi.org/10.1016/j.molcel.2023.03.006>

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

Tamberg, Laura; Jaago, Mariliis; Säälilik, 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](#)

Dual function of UNC-51-like kinase 3 (Ulk3) in the sonic hedgehog signaling pathway

Maloverjan, Alla; Piirsoo, Marko; Kasak, Lauri; Peil, Lagle; Osterlund, Torben; Kogerman, Priit Journal of biological chemistry

2010 / 39, p. 30079-30090 : ill <https://pubmed.ncbi.nlm.nih.gov/20643644/>

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 2023 / p. 90-110 : ill <https://doi.org/10.1002/glia.24463>

Forkhead transcription factor FOXO3a levels are increased in Huntington disease because of overactivated positive autofeedback 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](#)

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

Generation and characterization of a single-chain Fv antibody against Gli3, a hedgehog signaling pathway transcription factor

Laht, Silja; Meerits, Kati; Altroff, Harri; Faust, Helena; Tsanev, Robert; Kogerman, Priit; Järvekülg, Lilian; Paalme, Viuu; Valkna,

Andres; Timmusk, Sirje Hybridoma 2008 / 3, lk. 167-174 <https://pubmed.ncbi.nlm.nih.gov/18582209/>

Generation and characterization of mouse monoclonal antibody 5E1 against human transcription factor GLI3

Hunt, Reet; Bragina, Olga; Drews, Monika; Kasak, Lagle; Timmusk, Sirje; Valkna, Andres; Kogerman, Priit; Järvekülg, Lilian

Hybridoma 2007 / 3, p. 131-138 <https://www.liebertpub.com/doi/abs/10.1089/hyb.2007.0507?journalCode=hyb>

GLI3 mutations in human disorders mimic Drosophila Cubitus interruptus protein functions and localisation

Shin, S.H.; Kogerman, Priit; Lindström, E.; Toftgard, Rune; Biesecker, L.G. Proceedings of the National Academy of Sciences of the United States of America 1999 / p. 2880-2884 <https://pubmed.ncbi.nlm.nih.gov/10077605/>

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 and characterization of mouse plexin B3 promoter

Tiismus, Liivi; Laht, Piret; Otsus, Maarja; Veske, Andres Biochemical and biophysical research communications 2008 / p. 11-15 :

ill <https://ws.lib.ttu.ee/publikatsioonid/et/Publ/Item/189a79bd-e07b-44ae-88f3-1a63993eb816/Edit>

Identification and structure-functional characterisation of the gene transcriptional repressor domain of human Gli proteins = Inimese Gli-vaikude transkriptsioonilise repressordomeeni määramine ja struktuurilis-funktsionaalne iseloomustus

Tsanev, Robert 2014 https://www.ester.ee/record=b4412583*est

Identification, characterization and expression profiles of Fusarium udum stress-responsive WRKY transcription factors in Cajanus cajan under the influence of NaCl stress and Pseudomonas fluorescens OKC

Kumar, Gagan; Bajpai, Raina; Sarkar, Ankita; Mishra, Raj Kumar; Gupta, Vijai Kumar; Singh, Harikesh B.; Sarma, Birinchi K. Scientific reports 2019 / art. 14344, 9 p. : ill <https://doi.org/10.1038/s41598-019-50696-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Mammalian suppressor-of-fused modulates nuclear cytoplasmic shuttling of GLI1

Kogerman, Priit; Grimm, T.; Kogerman, Lembi; Krause, D.; Uden, A.B.; Sandstedt, B.; Toftgard, Rune; Zaphiropoulos, P.G. Nature cell. biol 1999 / p. 312-319 <https://pubmed.ncbi.nlm.nih.gov/10559945/>

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

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 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>

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/>

Protein kinase inhibitor SU6668 attenuates positive regulation of Gli proteins in cancer and multipotent progenitor cells

Piirsoo, Alla; Kasak, Lale; Kauts, Mari-Liis; Uusen, Piia; Tints, Kairit; Loog, Mart; Neuman, Toomas; Piirsoo, Marko Biochimica et biophysica acta : molecular cell research 2014 / p. 703-714 : ill <https://doi.org/10.1016/j.bbamcr.2014.01.003> [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 NFAT transcription factors by neuronal activity = NFAT tran[s]kriptsiooniteguri närvitalitlusest sõltuv regulatsioon

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

Regulation of transcription factor Gli activity using oligodeoxynucleotide decoy bound to Transportan 10

Laur, Kristi; Langel, Ülo; Kogerman, Priit; Valkna, Andres Spetsai Summer School : Protein and their Networks - from specific to global analysis : Spetses, Greece, 7.09.2009-17.09.2009 2009 / ? p

Regulation of transcription factor GLI activity using oligodeoxynucleotide decoy with transportan

Laur, Kristi; Langel, Ülo; Kogerman, Priit; Valkna, Andres 3rd Intracellular Delivery of Therapeutic Molecules : from Bench to Bedside. 15 years of Cell-penetrating Peptides : from Molecular Mechanisms to the Clinic : Montpellier, France, 31.08.2009-2.09.2009 2009 / p. 42

The role of Sonic Hedgehog pathway in neuro- and tumorigenesis = Sonic Hedgehogi signaaliraja roll neurogeneesis ja

vähi tekkes

Bragina, Olga 2010 <https://digi.lib.ttu.ee/i/?502> https://www.ester.ee/record=b2615858*est

Smoothed agonist augments proliferation and survival of neural cells

Bragina, Olga; Sergejeva, Svetlana; Serg, Martin; Žarkovsky, Tamara; **Maloverjan, Alla**; Kogerman, Priit; Žarkovsky, Aleksandr
Neuroscience letters 2010 / 2, p. 81-85 : ill <https://pubmed.ncbi.nlm.nih.gov/20600593/>

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>

Structural and functional insights into WRKY3 and WRKY4 transcription factors to unravel the WRKY–DNA (W-Box) complex interaction in tomato (Solanum lycopersicum L.). A computational approach

Aamir, Mohd; Singh, Vinay Kumar; Meena, Mukesh; Upadhyay, Rams.; **Gupta, Vijai Kumar**; Singh, Surendra Frontiers in plant
science 2017 / art. 819, 24 p. : ill <https://doi.org/10.3389/fpls.2017.00819> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Teadlased kasutavad äädikakärbest raskete ajuhaiguste uurimiseks [Võrguväljaanne]

Palgi, Mari novaator.err.ee 2020 / fot [Teadlased kasutavad äädikakärbest raskete ajuhaiguste uurimiseks](#)

The repressor domain of Gli3, a transcription factor of Hedgehog signaling pathway, is intrinsically disordered

Tsanev, Robert; Tanner, Risto; Jarvet, Jüri; **Osterlund, Torben**; Vanatalu, Kalju; Kogerman, Priit VIII European Symposium of
the Protein Society : Zurich, June 14-18, 2009 2009 / ? p

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://digikogu.taltech.ee/et/Item/07ffb222-9e0b-46ba-ace9-81f821b153a6>
<https://doi.org/10.23658/taltech.55/2021>