

TÃµnis Timmusk

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

11,672
citations

57758

44
h-index

36028

97
g-index

102
all docs

102
docs citations

102
times ranked

11718
citing authors

#	ARTICLE	IF	CITATIONS
1	Immune response to a conserved enteroviral epitope of the major capsid VP1 protein is associated with lower risk of cardiovascular disease. <i>EBioMedicine</i> , 2022, 76, 103835.	6.1	2
2	Melanoma-specific antigen-associated antitumor antibody reactivity as an immune-related biomarker for targeted immunotherapies. <i>Communications Medicine</i> , 2022, 2, .	4.2	1
3	Intronic enhancer region governs transcript-specific Bdnf expression in rodent neurons. <i>ELife</i> , 2021, 10, .	6.0	22
4	PGC-1 β Signaling Increases GABA(A) Receptor Subunit $\beta 2$ Expression, GABAergic Neurotransmission and Anxiety-Like Behavior in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 588230.	2.9	8
5	Drastic Effects on the Microbiome of a Young Rower Engaged in High-Endurance Exercise After a Month Usage of a Dietary Fiber Supplement. <i>Frontiers in Nutrition</i> , 2021, 8, 654008.	3.7	3
6	Isoform-Specific Reduction of the Basic Helix-Loop-Helix Transcription Factor TCF4 Levels in Huntington's Disease. <i>ENeuro</i> , 2021, 8, ENEURO.0197-21.2021.	1.9	2
7	Functional consequences of TCF4 missense substitutions associated with Pitt-Hopkins syndrome, mild intellectual disability, and schizophrenia. <i>Journal of Biological Chemistry</i> , 2021, 297, 101381.	3.4	10
8	The role of DNA methyltransferase activity in cocaine treatment and withdrawal in the nucleus accumbens of mice. <i>Addiction Biology</i> , 2020, 25, e12720.	2.6	12
9	The Fuchs corneal dystrophy-associated CTG repeat expansion in the TCF4 gene affects transcription from its alternative promoters. <i>Scientific Reports</i> , 2020, 10, 18424.	3.3	9
10	Daughterless, the <i>Drosophila</i> orthologue of TCF4, is required for associative learning and maintenance of synaptic proteome. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	12
11	CREB Family Transcription Factors Are Major Mediators of BDNF Transcriptional Autoregulation in Cortical Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 1405-1426.	3.6	138
12	Neuralized family member NEURL1 is a ubiquitin ligase for the cGMP-specific phosphodiesterase 9A. <i>Scientific Reports</i> , 2019, 9, 7104.	3.3	10
13	Glucocorticoid Receptor Stimulation Resulting from Early Life Stress Affects Expression of DNA Methyltransferases in Rat Prefrontal Cortex. <i>Journal of Molecular Neuroscience</i> , 2019, 68, 99-110.	2.3	16
14	Usage of Bacterial Artificial Chromosomes for Studying BDNF Gene Regulation in Primary Cultures of Cortical Neurons and Astrocytes. <i>Neuromethods</i> , 2018, , 13-25.	0.3	2
15	Dopamine cross-reacts with adrenoreceptors in cortical astrocytes to induce BDNF expression, CREB signaling and morphological transformation. <i>Glia</i> , 2018, 66, 206-216.	4.9	39
16	Cocaine-induced epigenetic DNA modification in mouse addiction-specific and non-specific tissues. <i>Neuropharmacology</i> , 2018, 139, 13-25.	4.1	22
17	Altered Expression Profile of IgLON Family of Neural Cell Adhesion Molecules in the Dorsolateral Prefrontal Cortex of Schizophrenic Patients. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 8.	2.9	43
18	The Intellectual Disability and Schizophrenia Associated Transcription Factor TCF4 Is Regulated by Neuronal Activity and Protein Kinase A. <i>Journal of Neuroscience</i> , 2017, 37, 10516-10527.	3.6	35

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19	Sumoylation regulates the transcriptional activity of different human NFAT isoforms in neurons. <i>Neuroscience Letters</i> , 2017, 653, 302-307.	2.1	9
20	Regulation of different human NFAT isoforms by neuronal activity. <i>Journal of Neurochemistry</i> , 2016, 137, 394-408.	3.9	31
21	Nucleolar Enrichment of Brain Proteins with Critical Roles in Human Neurodevelopment. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2055-2075.	3.8	19
22	Partial deletion of TCF4 in three generation family with non-syndromic intellectual disability, without features of Pitt-Hopkins syndrome. <i>European Journal of Medical Genetics</i> , 2016, 59, 310-314.	1.3	30
23	Rat NEURL1 3'UTR is alternatively spliced and targets mRNA to dendrites. <i>Neuroscience Letters</i> , 2016, 635, 71-76.	2.1	3
24	Indole-like Trk receptor antagonists. <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 541-552.	5.5	6
25	AP-1 Transcription Factors Mediate BDNF-Positive Feedback Loop in Cortical Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 1290-1305.	3.6	76
26	GLI2 cell-specific activity is controlled at the level of transcription and RNA processing: Consequences to cancer metastasis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 46-55.	3.8	10
27	Neuronal-activity regulated gene expression: emphasis on BDNF. <i>SpringerPlus</i> , 2015, 4, L38.	1.2	2
28	Novel transcripts reveal a complex structure of the human TRKA gene and imply the presence of multiple protein isoforms. <i>BMC Neuroscience</i> , 2015, 16, 78.	1.9	19
29	The CB1 cannabinoid receptor signals striatal neuroprotection via a PI3K/Akt/mTORC1/BDNF pathway. <i>Cell Death and Differentiation</i> , 2015, 22, 1618-1629.	11.2	109
30	Efficient use of a translation start codon in BDNF exon I. <i>Journal of Neurochemistry</i> , 2015, 134, 1015-1025.	3.9	19
31	Introducing Pitt-Hopkins syndrome-associated mutations of TCF4 to <i>Drosophila</i> daughterless. <i>Biology Open</i> , 2015, 4, 1762-1771.	1.2	19
32	Forkhead Transcription Factor FOXO3a Levels Are Increased in Huntington Disease Because of Overactivated Positive Autofeedback Loop. <i>Journal of Biological Chemistry</i> , 2014, 289, 32845-32857.	3.4	42
33	BAC-based cellular model for screening regulators of BDNF gene transcription. <i>BMC Neuroscience</i> , 2014, 15, 75.	1.9	3
34	Differential regulation of Bdnf expression in cortical neurons by class-selective histone deacetylase inhibitors. <i>Neuropharmacology</i> , 2013, 75, 106-115.	4.1	103
35	Pitt-Hopkins syndrome-associated mutations in TCF4 lead to variable impairment of the transcription factor function ranging from hypomorphic to dominant-negative effects. <i>Human Molecular Genetics</i> , 2012, 21, 2873-2888.	2.9	87
36	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. <i>Journal of Neurochemistry</i> , 2012, 123, 29-43.	3.9	18

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37	Bidirectional transcription from human LRRTM2/CTNNA1 and LRRTM1/CTNNA2 gene loci leads to expression of N-terminally truncated CTNNA1 and CTNNA2 isoforms. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 56-61.	2.1	11
38	Functional Diversity of Human Basic Helix-Loop-Helix Transcription Factor TCF4 Isoforms Generated by Alternative 5â€² Exon Usage and Splicing. <i>PLoS ONE</i> , 2011, 6, e22138.	2.5	106
39	Identification of cis-Elements and Transcription Factors Regulating Neuronal Activity-Dependent Transcription of Human BDNF Gene. <i>Journal of Neuroscience</i> , 2011, 31, 3295-3308.	3.6	208
40	BAC transgenic mice reveal distal cis-regulatory elements governing BDNF gene expression. <i>Genesis</i> , 2010, 48, 214-219.	1.6	11
41	Human TrkB gene: novel alternative transcripts, protein isoforms and expression pattern in the prefrontal cerebral cortex during postnatal development. <i>Journal of Neurochemistry</i> , 2010, 113, 952-964.	3.9	101
42	Expression of NGF and GDNF family members and their receptors during peripheral nerve development and differentiation of Schwann cells in vitro. <i>Neuroscience Letters</i> , 2010, 469, 135-140.	2.1	22
43	Nuclear Factor of Activated T-Cells Isoform c4 (NFATc4/NFAT3) as a Mediator of Antiapoptotic Transcription in NMDA Receptor-Stimulated Cortical Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 15331-15340.	3.6	63
44	Meta-coexpression conservation analysis of microarray data: a "subset" approach provides insight into brain-derived neurotrophic factor regulation. <i>BMC Genomics</i> , 2009, 10, 420.	2.8	15
45	Tissue-specific and neural activity-regulated expression of human BDNF gene in BAC transgenic mice. <i>BMC Neuroscience</i> , 2009, 10, 68.	1.9	34
46	Expression analysis of the CLCA gene family in mouse and human with emphasis on the nervous system. <i>BMC Developmental Biology</i> , 2009, 9, 10.	2.1	17
47	NF- κ B-dependent regulation of brain-derived neurotrophic factor in hippocampal neurons by X-linked inhibitor of apoptosis protein. <i>European Journal of Neuroscience</i> , 2009, 30, 958-966.	2.6	59
48	N-terminally truncated BAF57 isoforms contribute to the diversity of SWI/SNF complexes in neurons. <i>Journal of Neurochemistry</i> , 2009, 109, 807-818.	3.9	28
49	Neuralized-2: Expression in human and rodents and interaction with Delta-like ligands. <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 420-425.	2.1	9
50	Long-lasting behavioural and molecular alterations induced by early postnatal fluoxetine exposure are restored by chronic fluoxetine treatment in adult mice. <i>European Neuropsychopharmacology</i> , 2009, 19, 97-108.	0.7	128
51	Regulation of extracellular serotonin levels and brain-derived neurotrophic factor in rats with high and low exploratory activity. <i>Brain Research</i> , 2008, 1194, 110-117.	2.2	28
52	MANF is widely expressed in mammalian tissues and differently regulated after ischemic and epileptic insults in rodent brain. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 356-371.	2.2	162
53	Alternative splicing and expression of human and mouse NFAT genes. <i>Genomics</i> , 2008, 92, 279-291.	2.9	64
54	A Novel N-terminal Isoform of the Neuron-specific K-Cl Cotransporter KCC2. <i>Journal of Biological Chemistry</i> , 2007, 282, 30570-30576.	3.4	129

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55	Dissecting the human BDNF locus: Bidirectional transcription, complex splicing, and multiple promoters. <i>Genomics</i> , 2007, 90, 397-406.	2.9	591
56	Mouse and ratBDNF gene structure and expression revisited. <i>Journal of Neuroscience Research</i> , 2007, 85, 525-535.	2.9	847
57	LRRTM1 on chromosome 2p12 is a maternally suppressed gene that is associated paternally with handedness and schizophrenia. <i>Molecular Psychiatry</i> , 2007, 12, 1129-1139.	7.9	300
58	LRRTM1 protein is located in the endoplasmic reticulum (ER) in mammalian cells. <i>Molecular Psychiatry</i> , 2007, 12, 1057-1057.	7.9	8
59	Novel neurotrophic factor CDFN protects and rescues midbrain dopamine neurons in vivo. <i>Nature</i> , 2007, 448, 73-77.	27.8	382
60	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. <i>Journal of Neurochemistry</i> , 2005, 95, 1144-1155.	3.9	39
61	Structure, alternative splicing, and expression of the human and mouse KCNIP gene family. <i>Genomics</i> , 2005, 86, 581-593.	2.9	63
62	Huntingtin interacts with REST/NRSF to modulate the transcription of NRSE-controlled neuronal genes. <i>Nature Genetics</i> , 2003, 35, 76-83.	21.4	807
63	Two novel mammalian nogo receptor homologs differentially expressed in the central and peripheral nervous systems. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 581-594.	2.2	74
64	A novel gene family encoding leucine-rich repeat transmembrane proteins differentially expressed in the nervous system. Sequence data from this article have been deposited with the DDBJ/EMBL/GenBank Data Libraries under Accession Nos. AY182024 (human LRRTM1), AY182026 (human LRRTM2), AY182028 (human LRRTM3), AY182030 (human LRRTM4), AY182025 (mouse LRRTM1), AY182027 (mouse LRRTM2), AY182029 (mouse LRRTM3), and AY182031 (mouse LRRTM4). <i>Genomics</i> , 2003, 81, 411-421.	2.9	144
65	Dendritic Localization of Mammalian neuralized mRNA Encoding a Protein with Transcription Repression Activities. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 649-668.	2.2	20
66	Loss of Huntingtin-Mediated BDNF Gene Transcription in Huntington's Disease. <i>Science</i> , 2001, 293, 493-498.	12.6	1,191
67	Human Glial Cell Line-derived Neurotrophic Factor Receptor 4 Is the Receptor for Persephin and Is Predominantly Expressed in Normal and Malignant Thyroid Medullary Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 9344-9351.	3.4	77
68	Neuron-specific Bcl-2 Homology 3 Domain-only Splice Variant of Bak Is Anti-apoptotic in Neurons, but Pro-apoptotic in Non-neuronal Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 16240-16247.	3.4	72
69	Expression and Alternative Splicing of Mouse Gfra4 Suggest Roles in Endocrine Cell Development. <i>Molecular and Cellular Neurosciences</i> , 2000, 15, 522-533.	2.2	90
70	Neuron-specific splicing of zinc finger transcription factor REST/NRSF/XBR is frequent in neuroblastomas and conserved in human, mouse and rat. <i>Molecular Brain Research</i> , 1999, 72, 30-39.	2.3	118
71	Brain-derived Neurotrophic Factor Expression in Vivols under the Control of Neuron-restrictive Silencer Element. <i>Journal of Biological Chemistry</i> , 1999, 274, 1078-1084.	3.4	102
72	Differential regulation of BDNF and NT-3 mRNA levels in primary cultures of rat cerebellar neurons. <i>Neurochemistry International</i> , 1998, 32, 87-91.	3.8	20

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73	Identification of a Signaling Pathway Involved in Calcium Regulation of BDNF Expression. <i>Neuron</i> , 1998, 20, 727-740.	8.1	658
74	Targeted expression of a multifunctional chimeric neurotrophin in the lesioned sciatic nerve accelerates regeneration of sensory and motor axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 5269-5274.	7.1	41
75	Neuronal Expression of Zinc Finger Transcription Factor REST/NRSF/XBR Gene. <i>Journal of Neuroscience</i> , 1998, 18, 1280-1296.	3.6	349
76	Structural and Functional Characterization of the Rat Neurotrophin-4 Gene. <i>Molecular and Cellular Neurosciences</i> , 1997, 9, 264-275.	2.2	20
77	Change in Neurotrophins and Their Receptor mRNAs in the Rat Forebrain After Status Epilepticus Induced by Pilocarpine. <i>Epilepsia</i> , 1996, 37, 198-207.	5.1	84
78	Expression of mRNAs for neurotrophins and their receptors in the rat choroid plexus and dura mater. <i>NeuroReport</i> , 1995, 6, 1997-2000.	1.2	29
79	Seizures increase trkB mRNA expression in the dentate gyrus of rat hippocampus. <i>Journal of Molecular Neuroscience</i> , 1995, 6, 11-22.	2.3	15
80	Neurotrophins and their trk receptors in cultured cells of the glial lineage and in white matter of the central nervous system. <i>Journal of Molecular Neuroscience</i> , 1995, 6, 237-248.	2.3	69
81	Identification of brain-derived neurotrophic factor promoter regions mediating tissue-specific, axotomy-, and neuronal activity-induced expression in transgenic mice. <i>Journal of Cell Biology</i> , 1995, 128, 185-199.	5.2	113
82	Peripheral expression and biological activities of GDNF, a new neurotrophic factor for avian and mammalian peripheral neurons. <i>Journal of Cell Biology</i> , 1995, 130, 137-148.	5.2	548
83	Up-regulation of trkB mRNA expression in the rat striatum after seizures. <i>Neuroscience Letters</i> , 1995, 194, 181-184.	2.1	29
84	Neurotoxic injury in rat hippocampus differentially affects multiple trkB and trkC transcripts. <i>Neuroscience Letters</i> , 1995, 196, 1-4.	2.1	15
85	Structure and Regulation of BDNF and NT-4 Genes. , 1995, , 235-260.		1
86	Brain Insults in Rats Induce Increased Expression of the BDNF Gene through Differential Use of Multiple Promoters. <i>European Journal of Neuroscience</i> , 1994, 6, 587-596.	2.6	108
87	Expression of mRNA encoding neurotrophins and neurotrophin receptors in rat thymus, spleen tissue and immunocompetent cells. Regulation of neurotrophin-4 mRNA expression by mitogens and leukotriene B4. <i>FEBS Journal</i> , 1994, 223, 733-741.	0.2	82
88	Analysis of transcriptional initiation and translatability of brain-derived neurotrophic factor mRNAs in the rat brain. <i>Neuroscience Letters</i> , 1994, 177, 27-31.	2.1	43
89	Developmental regulation of brain-derived neurotrophic factor messenger RNAs transcribed from different promoters in the rat brain. <i>Neuroscience</i> , 1994, 60, 287-291.	2.3	94
90	Expression of Neurotrophins and Their Receptors in Primary Astroglial Cultures: Induction by Cyclic AMP-Elevating Agents. <i>Journal of Neurochemistry</i> , 1994, 63, 509-516.	3.9	103

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91	Widespread and Developmentally Regulated Expression of Neurotrophin-4 mRNA in Rat Brain and Peripheral Tissues. <i>European Journal of Neuroscience</i> , 1993, 5, 605-613.	2.6	248
92	Multiple promoters direct tissue-specific expression of the rat BDNF gene. <i>Neuron</i> , 1993, 10, 475-489.	8.1	812
93	Increased expression of trkB and trkC messenger RNAs in the rat forebrain after focal mechanical injury. <i>Neuroscience</i> , 1993, 57, 901-912.	2.3	65
94	Entorhinal cortex regulation of multiple brain-derived neurotrophic factor promoters in the rat hippocampus. <i>Neuroscience</i> , 1993, 57, 891-896.	2.3	34
95	Differential expression of mRNAs for neurotrophins and their receptors after axotomy of the sciatic nerve.. <i>Journal of Cell Biology</i> , 1993, 123, 455-465.	5.2	646
96	Differential usage of multiple brain-derived neurotrophic factor promoters in the rat brain following neuronal activation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 8802-8806.	7.1	229
97	Regulatory elements and transcriptional regulation by testosterone and retinoic acid of the rat nerve growth factor receptor promoter. <i>Gene</i> , 1992, 121, 247-254.	2.2	43
98	Induction of morphological differentiation of human neuroblastoma cells is accompanied by induction of tissue-type plasminogen activator. <i>Journal of Neuroscience Research</i> , 1989, 23, 274-281.	2.9	61