

A novel form of neurotensin post-translationally modified by arginylation

Eriste, Elo; Norberg, Ake; Nepomuceno, D.; Kuei, C.; Kamme, F.; Tran, D.T.; Strupat, K.; Jörnvall, Hans; Liu, C.; Lovenberg, T.W.; Sillard, Rannar Journal of biological chemistry 2005 / 42, p. 35089-35097 <https://pubmed.ncbi.nlm.nih.gov/16087676/>

Adenosine-derived non-phosphate antagonists for P2Y1 purinoreceptors

Sak, Katrin; Uri, A.; Enkvist, E.; Raidaru, G.; Subbi, J.; **Kelve, Merike; Järv, Jaak** Biochemical and biophysical research communications 2000 / p. 327-331

Apolipoprotein A-V interaction with members of the low density lipoprotein receptor gene family

Nilsson, Stefan; **Löökene, Aivar**; Beckstead, Jennifer; Gliemann, Jorgen; Ryan, Robert; Olivecrona, Gunilla Biochemistry 2007 / 12, p. 3896-3904 : ill <https://pubs.acs.org/doi/10.1021/bi7000533#:~:text=Experiments%20using%20surface%20plasmon%20resonance,low%20density%20lipoprotein%20receptor%20family.>

Association of CD2 with fibrinogen in human plasma : depletion of the soluble E-receptor in blood clotting

Smorodin, Eugeniy P.; Kurtenkov, O.A.; **Ševtšuk, Igor** Journal of immunoassay and immunochemistry 2007 / 4, p. 359-369 <https://www.tandfonline.com/doi/abs/10.1080/15321810701603708>

Budded baculoviruses as a receptor display system to quantify ligand binding with TIRF microscopy

Laasfeld, Tõnis; **Ehrminger, Robin**; Tahk, Maris-Johanna; Veiksina, Santa; Kõlvart, Karl Rene; **Min, Mart**; Kopanchuk, Sergei; Rinken, Ago Nanoscale 2021 / p. 2436 - 2447 <https://doi.org/10.1039/d0nr06737g> [Journal metrics at Scopus](#) [Article at Scopus](#) [journal metrics at WOS](#) [Article at WOS](#)

Catalysts derived from sustainable natural and value added alkaloids from poppies

Silm, Estelle; Pata, Pille; Kruis, Jaqueline Cecilia; Sikerina, Anastassia; Pata, Ilar; **Kanger, Tõnis; Gathergood, Nicholas** IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 24 https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf

The CB₁ cannabinoid receptor signals striatal neuroprotection via a PI3K/Akt/mTORC1/BDNF pathway

Blazquez, C.; Chiarlone, A.; **Pruunsild, Priit; Timmusk, Tõnis** Cell death and differentiation 2015 / p. 1618-1629 : ill <https://doi.org/10.1038/cdd.2015.11> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterisation of a new chimeric ligand for galanin receptors : galanin(1-13)-[D-Trp(32)]-neuropeptide Y(25-36)amide

Saar, K.; Mahlapuu, R.; Laidmäe, E.; **Valkna, Andres**; Kahl, U.; Karelson, E.; Langel, Ülo Regulatory peptides 2001 / p. 15-19 <https://www.sciencedirect.com/science/article/pii/S0167011501002981>

Characterization of symmetric complexes of nerve growth factor and the ectodomain of the pan-neurotrophin receptor, p75NTR

Aurikko, J.P.; Ruotolo, B.T.; Grossmann, J.G.; Moncrieffe, M.C.; Stephens, E.; Leppänen, V.M.; Robinson, C.V.; **Saarma, Mart**; Bradshaw, R.A.; Blundell, T.L. Journal of biological chemistry 2005 / 39, p. 33453-33460 <https://pubmed.ncbi.nlm.nih.gov/16009712/>

Chiral cyclohexylhemicucurbit[n]urils

Shmatova, Elena; Fomitšenko, Maria; Öeren, Mario; Reile, Indrek; **Kuhtinskaja, Maria; Järving, Ivar; Aav, Riina** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Chiral hemicucurbit[8]uril as an anion receptor : selectivity to size, shape and charge distribution

Kaabel, Sandra; Adamson, Jasper; Topic, Filip; **Öeren, Mario; Reimund, Mart; Prigorchenko, Elena; Löökene, Aivar; Aav, Riina** Chemical science 2017 / p. 2184-2190 : ill <https://doi.org/10.1039/C6SC05058A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chiral heterocycle-based receptors for enantioselective recognition

Khose, Vaibhav N.; John, Marina E.; Pandey, Anita D.; **Borovkov, Victor**; Karnik, Anil V. Symmetry 2018 / 75 p : ill <https://doi.org/10.3390/sym10020034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chiral heterocycle-based receptors for enantioselective recognition

Khose, Vaibhav N.; John, Marina E.; Pandey, Anita D.; **Borovkov, Victor**; Karnik, Anil V. Chiral Auxiliaries and Chirogenesis 2021 / p. 27-101 <https://doi.org/10.3390/books978-3-0365-1017-0> <https://doi.org/10.3390/sym10020034>

Developmental up-regulation of KCC2 in the absence of GABAergic and glutamatergic transmission

Ludwig, Anastasia; Li, Hong; Saarma, Mart; Kaila, Kai; Rivera, Claudio The European journal of neuroscience 2003 / 12, p. 3199-3206 : ill <https://pubmed.ncbi.nlm.nih.gov/14686894/>

Endothelial-specific regulation of vessel formation : role of receptor tyrosine kinases

Valdre, Eola; Valdre, Eola vt.ka Kukk, Eola 2000 http://www.estee.ee/record=b1388804*est

Evolutionary origin of the P2X7 C-ter region : capture of an ancient ballast domain by a P2X4-Like gene in ancient jawed

vertebrates

Rump, Airi; Smolander, Olli-Pekka; Rützel Boudinot, Sirje; Kanellopoulos, Jean; Boudinot, Pierre *Frontiers in immunology* 2020 / art. 113, 15 p. : ill <https://doi.org/10.3389/fimmu.2020.00113> [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

Expression of neurotrophin receptors in rat testis. Upregulation of TrkA mRNA with hCG treatment

Schultz, R.; **Metsis, Madis;** Hokfelt, T.; Parvinen, M.; Peltö-Huikko, M. *Molecular and cellular endocrinology* 2001 / p. 121-127
<https://pubmed.ncbi.nlm.nih.gov/11500245/>

Extracellular acidification : a novel detection system for ligand/receptor interactions. Demonstration with bioactive peptides and CHO or pancreatic beta cells, but of possible interest for tracing putative receptors in ethanol metabolism

Bonetto, V.; Eriste, Elo; **Metsis, Madis;** Sillard, Rannar *Advances in experimental medicine & biology* 1999 / p. 351-358
https://link.springer.com/chapter/10.1007/978-1-4615-4735-8_43

Fragment-based QSAR approach for novel indole-like TrkA receptor antagonist

Tammiku-Taul, Jaana; Dobchev, Dimitar Atanasov; Karelson, Mati; **Timmusk, Tõnis;** Park, Rahel; Jaanson, Kaur; Luberg, Kristi; Kananovich, Dzmitry; Noole, Artur; Kanger, Tõnis; Lopp, Margus 8th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources (CMTPI-2015) : Chios, Greece, June 21-25, 2015 : book of abstracts 2015 / p. 68

GABA receptor p subunit expression in the developing rat brain

Alakuijala, Anniina; Palgi, Mari; Wegelius, Katri; Schmidt, Matthias; Enz, Ralf; Paulin, Lars; **Saarma, Mart;** Pasternack, Michael *Brain research : developmental brain research* 2005 / p. 15-23 <https://doi.org/10.1016/j.devbrainres.2004.09.010>

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

Genes targeted by the estrogen and progesterone receptors in the human endometrial cell lines HEC1A and RL95-2

Tamm, Karin; Rõõm, Miia; Salumets, Andres; **Metsis, Madis** *Reproductive biology and endocrinology* 2009 / 12 p. : ill
<https://pubmed.ncbi.nlm.nih.gov/20034404/>

HPLC-MS as a tool for screening mechanochemical synthesis of macrocycles

Shalima, Tatsiana; Dalidovich, Tatsiana; Suut, Elina; Kananovich, Dzmitry; Aav, Riina GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 26 https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

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; Rützel 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 TrkB gene : novel alternative transcripts, protein isoforms and expression pattern in the prefrontal cerebral cortex during postnatal development

Luberg, Kristi; Wong, Jenny; Weickert, Cynthia Shannon; **Timmusk, Tõnis** *Journal of neurochemistry* 2010 / 4, p. 952-964 : ill
<https://pubmed.ncbi.nlm.nih.gov/20193039/>

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 of the receptors for GDNF

Saarma, Mart; Titievsky, A.; Arumäe, Urmas; Airaksinen, Matti S. Princess Lilian Symposium "Kidney Development has Clinical Impacts", Brussels, October 26-27, 1998 1998 / p. 9

Incorrect primer sequences in the article on methylprednisolone treatment

Tamm, Andres *Acta Neurologica Scandinavica* 2016 / p. 90 <https://doi.org/10.1111/ane.12507> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Indole-like Trk receptor antagonists

Tammiku-Taul, Jaana; Park, Rahel; Jaanson, Kaur; Luberg, Kristi; Dobchev, Dimitar Atanasov; Kananovich, Dzmitry; Noole, Artur; Mandel, Merle; Kaasik, Allen; **Lopp, Margus; Timmusk, Tõnis;** Karelson, Mati *European journal of medicinal chemistry* 2016 / p. 541-552 : ill <https://doi.org/10.1016/j.ejmech.2016.06.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Large chiral cyclohexanohemicucurbit[n]urils [Online resource]

Mishra, Kamini Atindrakumar; Kaabel, Sandra; Paberits, Oliver; Fomitšenko, Maria; Aav, Riina Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmdk.ut.ee/teesid/>

Lysophosphatidic acid binds to and activates GPR92, a G protein-coupled receptor highly expressed in gastrointestinal lymphocytes

Kotarsky, K.; Boketoft, A.; **Sillard, Rannar** Journal of pharmacology and experimental therapeutics 2006 / p. 619-628
<https://pubmed.ncbi.nlm.nih.gov/16651401/>

A macromolecular imprinting approach to design synthetic receptors for label-free biosensing applications =

Sünteeilised retseptorid molekulaarselt jäljendatud polümeeridest biomakromolekulide märgisevabaks määramiseks
Tretjakov, Aleksei 2016 http://www.ester.ee/record=b4560028*est

The mechanisms of actions of aldosterone and its antagonists in cardiovascular disease

Pantelidis, Panteleimon; Sideris, Michail; **Viigimaa, Margus**; Avranas, Konstantinos; Deligkaris, Pavlos; Zografou, Ioanna; Lovic, Dragan Current Pharmaceutical Design 2018 / p. 5491 - 5499 <https://doi.org/10.2174/1381612825666190215100502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New oxacalix[4]arene carboxylate detects viologen in protic media

Peterson, Anna; Ludvig, Mari-Liis; Martõnova, Jevgenija; Kaabel, Sandra; Fomitšenko, Maria; Aav, Riina Supramolecular chemistry 2020 / p. 313–319 : ill <https://doi.org/10.1080/10610278.2019.1659269> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Novel computational models for predicting dopamine interactions

Katritzky, Alan R.; **Dobchev, Dimitar**; Stoyanova-Slavova, Iva B.; Kuanar, Minati; Bespalov, Maxim M.; **Karelson, Mati; Saarma, Mart** Experimental neurology 2008 / 1, p. 150-171 <https://www.sciencedirect.com/science/article/pii/S0014488608000368>

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>

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/>

Oksakaliiks[4]areeni derivaatide süntees

Ludvig, Mari-Liis; Peterson, Anna; Martõnova, Jevgenija; Aav, Riina; Adamson, Jasper XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 24 : ill

P2X4 : a fast and sensitive purinergic receptor

Suurväli, Jaanus; Boudinot, Pierre; Kanellopoulos, Jean; **Rüütel Boudinot, Sirje** Biomedical journal 2017 / p. 245-256 : ill
<https://doi.org/10.1016/j.bj.2017.06.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

P2X4 and P2X7 receptors in evolution, physiology, inflammation, and autoimmunity = P2X4 ja P2X7 retseptorid evolutsiooni, füsioloogia, põletiku ja autoimmuunsuse kontekstis

Rump, Airi 2023 <https://doi.org/10.23658/taltech.53/2023> <https://digikogu.taltech.ee/et/Item/d5c7f19b-53ae-4010-9249-2aa0b04b898e>
https://www.ester.ee/record=b5645330*est

Pharmacological characterization of relaxin-3/INSL7 receptors GPCR135 and GPCR142 from different mammalian species

Chen, J.; Kuei, C.; Sutton, S.W.; Bonaventure, P.; Nepomuceno, D.; Eriste, Elo; **Sillard, Rannar**; Lovenberg, T.W.; Liu, C. Journal of pharmacology and experimental therapeutics 2005 / 1, p. 83-95 <https://www.sciencedirect.com/science/article/abs/pii/S0022356524317288>

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

Pyrimidinoreceptor potentiation by ATP in NG108-15 cells

Sak, Katrin; **Kelve, Merike**; Uri, A.; Järv, J. FEBS letters 1998 / p. 107-109

Recent developments in the field of GDNF and its receptors

Saarma, Mart Forum of European Neuroscience, Berlin, June 27 - July 2, 1998 1998 / p. 12

Regulator of G protein signalling 16 (RGS16) : functions in immunity and genomic location in an ancient MHC-related

evolutionarily conserved syntenic group = G valkude signaaliülekanne regulaator 16 (RGS16) : osalus immuunvastuses ja genoomne asukoht ürgses MHC-seoselises evolutsiooniliselt konserveerunud sünteenses grupis
Suurväli, Jaanus 2014 https://www.ester.ee/record=b4439180*est

RGS16 is involved in the TLR- mediated expression of proinflammatory cytokines and the receptors CD14 and C5aR
Suurväli, Jaanus; Saar, Regina; Pahtma, Merlis; Veide, A.; Adib-Conquy, Minou; Cavaillon, Jean-Marc; Rüütel Boudinot, Sirje
14th International Congress of Immunology (ICI2010) : August 22-27, 2010, Kobe, Japan 2010
https://www.researchgate.net/publication/295669667_RGS16_is_involved_in_the_TLR-Mediated_Expression_of_Proinflammatory_Cytokines_and_the_Receptors_CD14_and_C5aR

RGS16 is involved in the TLR-mediated expression of proinflammatory cytokines and the receptors CD14 and C5aR
Suurväli, Jaanus; Saar, Regina; Saaremäe, Merle; Pahtma, Merlis; Nutt, Anu; Paalme, Viu; Rüütel Boudinot, Sirje
Scandinavian journal of immunology 2011 / p. 366-367
https://www.researchgate.net/publication/295669667_RGS16_is_involved_in_the_TLR-Mediated_Expression_of_Proinflammatory_Cytokines_and_the_Receptors_CD14_and_C5aR

Role of third intracellular loop of galanin receptor type 1 in signal transduction
Rezaei, K.; Saar, K.; Soomets, U.; Valkna, Andres; Nasman, J.; Zorko, M.; Akerman, K.; Schroeder, T.; Bartfai, T.; Langel, Ülo
Neuropeptides 2000 / p. 25-31

Selective artificial receptors based on micropatterned surface-imprinted polymers for label-free detection of proteins by SPR imaging
Lautner, G.; Kaev, Jevgeni; Reut, Jekaterina; Öpik, Andres; Rappich, Jörg; Söritski, Vitali; Gyurcsanyi, Robert E. Advanced functional materials 2011 / p. 591-597 : ill
https://www.researchgate.net/publication/229918247_Selective_Artificial_Receptors_Based_on_Micropatterned_Surface-Imprinted_Polymers_for_Label-Free_Detection_of_Proteins_by_SPR_Imaging

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/>

Structural and functional features of the P2X4 receptor : an immunological perspective
Kanellopoulos, Jean M.; Almeida-da-Silva, Cassio Luiz Coutinho; Rüütel Boudinot, Sirje; Ojcius, David M. Frontiers in immunology 2021 / art. 645834, 21 p. : ill <https://doi.org/10.3389/fimmu.2021.645834> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surface-imprinted poly-3,4-ethylenedioxythiophene : a new material for preparation of selective artificial receptors
Söritski, Vitali; Lautner, G.; Kaev, Jevgeni; Reut, Jekaterina; Menaker, Anna; Öpik, Andres; Gyurcsanyi, Robert E.; Rappich, Jörg 43rd IUPAC World Chemistry Congress : San Juan, Puerto Rico, July 31st-August 5th : program and abstracts 2011 / p. 362

Tehnikaüliskoolis loodud marker hõlbustab Sclerosis multiplexi ja kasvaja ravi
novaator.err.ee 2019 <https://novaator.err.ee/997497/tehnikaüliskoolis-loodud-marker-hõlbustab-sclerosis-multiplexi-ja-kasvaja-ravi>

The first cysteine-rich domain of the receptor GFR[alpha]1 stabilizes the binding of GDNF
Virtanen, Heidi; Yang, Jianmin; Beshpalov, Maxim M.; Hiltunen, J.O.; Leppänen, V.M.; Kalkkinen, Nisse; Goldman, A.; Saarma, Mart; Runeberg-Roos, Pia Biochemical journal 2005 / 3, p. 817-824 <https://pubmed.ncbi.nlm.nih.gov/15610063/>

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

The structure of GFR[alpha]1 domain 3 reveals new insights into GDNF binding and RET activation
Leppänen, V.M.; Beshpalov, Maxim M.; Runeberg-Roos, Pia; Puurand, Ülo; Merits, Andres; Saarma, Mart; Goldman, A. EMBO journal 2004 / 7, p. 1452-1462 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC391078/>

The tumor suppressor CYLD interacts with TRIP and regulates negatively nuclear factor kappaB activation by tumor necrosis factor the GDNF family : signalling, biological functions and therapeutic value
Regamey, A.; Kogerman, Priit Journal of experimental medicine 2003 / 12, p. 1959-1964 <https://pubmed.ncbi.nlm.nih.gov/14676304/>

Transcriptional repression of neurotrophin receptor trkB by thyroid hormone in the developing rat brain
Pombo, P.M.; Barettoni, D.; Espliguero, G.; Metsis, Madis; Iglesias, T.; Rodriguez-Pena, A. Journal of biological chemistry 2000 / p. 37510-37517 <https://pubmed.ncbi.nlm.nih.gov/10978336/>

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>

Uudsed "keemilised ninad" aitavad keskkonda puhastada

Imeline Teadus 2019 / lk. 20 : fot https://www.ester.ee/record=b2747925*est