

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/>

A structural-dynamical characterization of human Cox17

Banci, Lucia; Bertini, Ivano; Ciofi-Baffoni, Simone; Janicka, Anna; Martinelli, Manuele; Kozłowski, Henryk; Palumaa, Peep Journal of biological chemistry 2008 / 12, p. 7912-7920 : ill <https://pubmed.ncbi.nlm.nih.gov/18093982/>

Apolipoprotein A-V-heparin interactions : implications for plasma lipoprotein metabolism

Löökene, Aivar; Beckstead, Jennifer; Nilsson, S.; Olivecrona, G.; Ryan, R.O. Journal of biological chemistry 2005 / 27, p. 25383-25387 <https://pubmed.ncbi.nlm.nih.gov/15878877/>

Apolipoproteins C-I and C-III inhibit lipoprotein lipase activity by displacement of the enzyme from lipid droplets

Larsson, Mikael; Vorrjö, Evelina; Talmund, Philippa; Löökene, Aivar; Olivecrona, Gunilla Journal of biological chemistry 2013 / p. 33997-34008 : ill <https://doi.org/10.1074/jbc.M113.495366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

1,1'-bis(anilino)-4,4'-bis(naphtalene)-8,8'-disulfonate acts as an inhibitor of lipoprotein lipase and competes for binding with apolipoprotein CII

Löökene, Aivar; Zhang, L.; Tõugu, Vello; Olivecrona, G. Journal of biological chemistry 2003 / p. 37183-37194 <https://doi.org/10.1074/jbc.M303894200>

Brain-derived neurotrophic factor expression in vivo is under the control of neuron-restrictive silencer element

Timmusk, Tõnis; Palm, Kaia; Lendahl, U.; Metsis, Madis Journal of biological chemistry 1999 / p. 1078-1084

Calcium triggers folding of lipoprotein lipase into active dimers

Zhang, L.; Löökene, Aivar; Wu, G.; Olivecrona, G. Journal of biological chemistry 2005 / 52, p. 42580-42591 <https://pubmed.ncbi.nlm.nih.gov/16179346/>

Calreticulin promotes folding/dimerization of human lipoprotein lipase expressed in insect cells (sf21)

Zhang, L.; Wu, G.; Tate, C.G.; Löökene, Aivar; Olivecrona, G. Journal of biological chemistry 2003 / 31, 29344-29351 <https://www.sciencedirect.com/science/article/pii/S002192582084438X>

A catalase-related hemoprotein in coral is specialized for synthesis of short-chain aldehydes : discovery of P450-type hydroperoxide lyase activity in a catalase

Teder, Tarvi; Lõhelaid, Helike; Boeglin, William E.; Calcutt, Wade M.; Brash, Alan R.; Samel, Nigulas Journal of biological chemistry 2015 / p. 19823-19832 : ill <https://doi.org/10.1074/jbc.M115.660282> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

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/>

Characterization of the physical interaction of Gli proteins with SUFU proteins

Dunaeva, M.; Michelson, P.; Kogerman, Priit; Toftgard, Rune Journal of biological chemistry 2003 / 7, p. 5116-5122 <https://pubmed.ncbi.nlm.nih.gov/12426310/>

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/>

Elimination of phosphorylation sites of Semliki Forest virus replicase protein nsP3

Vihinen, Helena; Ahola, Tero; Tuittila, Minna; Merits, Andres; Kääriäinen, Leevi Journal of biological chemistry 2001 / p. 5745-5752 <http://dx.doi.org/10.1074/jbc.M006077200>

Evidence for two distinct binding sites for lipoprotein lipase on glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1 (GPIHBP1)

Reimund, Mart; Larsson, Mikael; Kovrov, Oleg; Kasvandik, Sergio; Olivecrona, Gunilla; Löökene, Aivar Journal of biological chemistry 2015 / p. 13919-13934 : ill <https://doi.org/10.1074/jbc.M114.634626> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evidence of a cyclooxygenase-related prostaglandin synthesis in coral

Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Brash, Alan R.; Samel, Nigulas Journal of biological chemistry 1999 / 15, p. 9923-9929

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](#)

Functional analyses of human apolipoprotein CII by site-directed mutagenesis : identification of residues important for activation of lipoprotein lipase

Shen, Y.; **Lõokene, Aivar;** Nilsson, S.; Olivecrona, G. Journal of biological chemistry 2002 / 6, p. 4334-4342
<https://pubmed.ncbi.nlm.nih.gov/11719505/>

Human glial cell line-derived neurotrophic factor receptor alpha4 is the receptor for persephin, and is predominantly expressed in normal and malignant thyroid medullary cells

Lindahl, Maria; Poteryaev, Dmitry; Yu, Liying; Arumäe, Urmas; Timmusk, Tõnis; Bongarzone, Italia; Aiello, Antonella; Pierotti, Marco A.; Airaksinen, Matti S.; **Saarma, Mart** Journal of biological chemistry 2001 / 12, p. 9344-9351 : ill
<https://doi.org/10.1074/jbc.M008279200>

Identification of a novel function of the alphavirus capping apparatus. RNA 5'-triphosphatase activity of Nsp2

Vasiljeva, L.; **Merits, Andres;** Auvinen, P.; Kääriäinen, L. Journal of biological chemistry 2000 / p. 17281-17287

INSL5 is a high affinity specific agonist for GPCR142(GPR100)

Liu, C.; Kuei, C.; Sutton, S.; Chen, J.; Bonaventure, P.; Wu, J.; Nepomuceno, D.; Kamme, F.; Tran, D.T.; Zhu, J.; Wilkinson, T.; Bathgate, R.; Eriste, Elo; **Sillard, Rannar;** Lovenberg, T.W. Journal of biological chemistry 2005 / 1, p. 292-300
[https://www.sciencedirect.com/science/article/pii/S0021925820765919#:~:text=Insulin%2Dlike%20peptide%205%20\(INSL5,receptor%20has%20no%20been%20identified.](https://www.sciencedirect.com/science/article/pii/S0021925820765919#:~:text=Insulin%2Dlike%20peptide%205%20(INSL5,receptor%20has%20no%20been%20identified.)

Interaction between oligomers of stefin B and amyloid-[beta] in vitro and in cells

Škerget, Katja; Taler-Veričič, Ajda; **Kumm, Tiina; Palumaa, Peep** Journal of biological chemistry 2010 / 5, p. 3201-3210
<https://pubmed.ncbi.nlm.nih.gov/19955183/>

Isolation and characterization of low sulfated heparan sulfate sequences with affinity for lipoprotein lipase

Spillmann, Dorothe; **Lõokene, Aivar;** Olivecrona, Gunilla Journal of biological chemistry 2006 / 33, p. 23405-23413 : ill
<https://www.sciencedirect.com/science/article/pii/S0021925819463783>

Neuron-specific Bcl-2 homology 3 domain-only splice variant of Bak is anti-apoptotic in neurons, but pro-apoptotic in non-neuronal cells

Sun, Yun-Fu; Yu, Li-Ying; **Saarma, Mart;** Timmusk, Tõnis; Arumäe, Urmas Journal of biological chemistry 2001 / 19, p. 16240-16247 : ill
<https://pubmed.ncbi.nlm.nih.gov/11278671/>

A novel N-terminal isoform of the neuron-specific K-Cl cotransporter KCC2

Uvarov, Pavel; Ludwig, Anastasia; Markkanen, Marika; **Pruunsild, Priit;** Kaila, Kai; Delpire, Eric; **Timmusk, Tõnis;** Rivera, Claudio; Airaksinen, Matti S. Journal of biological chemistry 2007 / 42, p. 30570-30576 <https://pubmed.ncbi.nlm.nih.gov/17715129/>

Organization and assembly of metal-thiolate clusters in epithelium-specific metallothionein-4

Meloni, Gabriele; **Zovo, Kairit; Kazantseva, Jekaterina; Palumaa, Peep;** Vašak, Milan Journal of biological chemistry 2006 / 21, p. 14588-14595 : ill https://www.researchgate.net/publication/7221929_Organization_and_Assembly_of_Metal-Thiolate_Clusters_in_Epithelium-specific_Metallothionein-4

P75 neurotrophin receptor signaling activates sterol regulatory element-binding protein-2 in hepatocyte cells via p38 mitogen-activated protein kinase and caspase-3

Pham, Dan Duc; Do, Hai Thi; Bruelle, Céline; Kukkonen, Jyrki P.; Eriksson, Ove; Mogollón, Isabel; Korhonen, Laura T.; **Arumäe, Urmas;** Lindholm, Dan Journal of Biological Chemistry 2016 / p. 10747 - 10758 <https://doi.org/10.1074/jbc.M116.722272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phosphorylation down-regulates the RNA binding function of the coat protein of potato virus A

Ivanov, K.I.; Puustinen, P.; **Merits, Andres; Saarma, Mart;** Mäkinen, K. Journal of biological chemistry 2001 / 17, p. 13530-13540 : ill
<https://pubmed.ncbi.nlm.nih.gov/11152464/>

Rapid subunit exchange in dimeric lipoprotein lipase and properties of the inactive monomer

Lõokene, Aivar; Zhang, L.; Hultin, M.; Olivecrona, G. Journal of biological chemistry 2004 / 48, p. 49964-49972
<https://www.sciencedirect.com/science/article/pii/S0021925820677857>

Regulation of Gli1 transcriptional activity in the nucleus by Dyrk1

Mao, J.; Maye, P.; **Kogerman, Priit** Journal of biological chemistry 2002 / 38, p. 31156-31161

<https://pubmed.ncbi.nlm.nih.gov/12138125/>

Site-specific protease activity of the carboxyl-terminal domain of Semliki Forest virus replicase protein nsP2

Vasiljeva, L.; Valmu, L.; Kääriäinen, L.; **Merits, Andres** Journal of biological chemistry 2001 / p. 30786-30793

<https://pubmed.ncbi.nlm.nih.gov/11410598/>

The basis of prostaglandin synthesis in coral : molecular cloning and expression of a cyclooxygenase from the arctic soft coral *Gersemia fruticosa*

Koljak, Reet; Järving, Ivar; Kurg, Reet; Boeglin, William E.; **Varvas, Külliki; Valmsen, Karin**; Ustav, Mart; Brash, Alan R.; Samel, Nigulas Journal of biological chemistry 2001 / 10, p. 7033-7040 : ill

Transcriptional repression of neurotrophin receptor *trkB* by thyroid hormone in the developing rat brain

Pombo, P.M.; Barettino, 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/>

An upstream enhancer and MEF2 transcription factors fine-tune the regulation of the *Bdnf* gene in cortical and hippocampal neurons

Avarlaid, Annela; Falkenberg, Kaisa; Lehe, Karin; Mudo, Giuseppa; Belluardo, Natale; Di Liberto, Valentina; Frinchi, Monica; **Tuvikene, Jürgen; Timmusk, Tõnis** Journal of biological chemistry 2024 / art. 107411, 12 p. : ill

<https://doi.org/10.1016/j.jbc.2024.107411> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)