

A novel form of neuropeptidyl 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/>

Brain-specific metallothionein-3 has higher metal-binding capacity than ubiquitous metallothioneins and binds metals noncooperatively

Palumaa, Peep; Eriste, Elo; **Njunkova, Olga**; Pokras, Lesja; Jörnvall, H.; Sillard, Rannar Biochemistry 2002 / 19, p.6158-6163
<https://pubmed.ncbi.nlm.nih.gov/11994011/>

Comparison of confirmations of zinc- and cadmium-substituted metallothionein-3 by ESI MS

Palumaa, Peep; Eriste, Elo; **Njunkova, Olga**; Pokras, Lesja; Jörnvall, Hans; Sillard, Rannar The 50th ASMS Conference on Mass Spectrometry and Allied Topics 2002 / ? p

Cox17, a copper chaperone for cytochrome c oxidase : expression, purification and formation of mixed disulphide adducts with thiol reagents

Voronova, Anastassia; Kazantseva, Jekaterina; Tuuling, Marina; Sokolova, Niina; **Sillard, Rannar**; Palumaa, Peep Protein expression and purification 2007 / 1, p. 138-144 : ill <https://www.sciencedirect.com/science/article/pii/S1046592806003901>
<https://www.sciencedirect.com/science/article/pii/S1046592806003901>

Determination of metal-protein complexes and posttranslational modifications by LC-(ESI-TOF)-MS

Sillard, Rannar; Eriste, Elo; **Njunkova, Olga**; Pokras, Lesja; Jörnvall, Hans; Wadensten, Henrik; Renlund, Staffan; **Palumaa, Peep** Proceedings of the 49th ASMS Conference on Mass Spectrometry and Allied Topics : Chicago, Illinois, May 27-31, 2001 2001 / p. 11-12 : ill

ESI TOF MS in protein structure analysis

Palumaa, Peep; Eriste, Elo; **Njunkova, Olga**; Pokras, Lesja; Jörnvall, Hans; Sillard, Rannar The 1st International Symposium on Short-chain Dehydrogenases/reductases in Cancer and other Diseases 2002 / ? p

Evidence for non-isostructural replacement of Zn(2+) with Cd(2+) in the beta-domain of brain-specific metallothionein-3

Palumaa, Peep; **Njunkova, Olga**; Pokras, Lesja; Eriste, Elo; Jörnvall, H.; Sillard, Rannar FEBS letters 2002 / 1/3, p. 76-80 : ill
<https://www.sciencedirect.com/science/article/pii/S0014579302031691>

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

Human Sco1 functional studies and pathological implications of P174L mutant

Banci, Lucia; Bertini, Ivano; **Palumaa, Peep**; **Sillard, Rannar** Proceedings of the National Academy of Sciences of the United States of America 2007 / 1, p. 15-20
https://www.researchgate.net/publication/6617178_Human_Sco1_functional_studies_and_pathological_implications_of_the_P174L_mutant

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%20%20%20\(INSL5.receptor%20has%20not%20been%20identified.](https://www.sciencedirect.com/science/article/pii/S0021925820765919#:~:text=Insulin%2Dlike%20peptide%20%20%20(INSL5.receptor%20has%20not%20been%20identified.)

Large-scale HPLC purification of Calbindin D9k from porcine intestine

Bonetto, V.; Kangur, Liina; **Palumaa, Peep**; Mutt, V.; Jörnvall, Hans; Sillard, Rannar Protein expression and purification 1999 / 3, p. 387-391 <https://pubmed.ncbi.nlm.nih.gov/10600456/>

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/>

Mammalian copper chaperone Cox17 exist in two metalloforms linked by oxydative switch

Palumaa, Peep; Voronova, Anastassia; Kangur, Liina; **Sillard, Rannar**; Meyer-Klauke, W.; Meyer, Thomas; Rompel, Anette The FEBS journal 2005 / Supplement 1, p. 386-387

Metal binding of metallothionein-3 versus metallothionein-2 : lower affinity and higher plasticity

Palumaa, Peep; Tammiste, Indrek; Kruusel, Keiu; **Kangur, Liina**; Jörnvall, Hans; **Sillard, Rannar** Biochimica et biophysica acta : proteins and proteomics 2005 / 2, p. 205-211 : ill <https://www.sciencedirect.com/science/article/pii/S1570963904003164>

Metal binding to brain-specific metallothionein-3 studied by electrospray ionization mass spectrometry

Palumaa, Peep; Eriste, Elo; Kruusel, Keiu; **Kangur, Liina**; Jörnvall, Hans; Sillard, Rannar Cellular and molecular biology 2003 / 5, p.

763-768 <https://pubmed.ncbi.nlm.nih.gov/14528913/>

Metal-binding mechanism of Cox17, a copper chaperone for cytochrome c oxidase

Palumaa, Peep; Kangur, Liina; Voronova, Anastassia; Sillard, Rannar Biochemical journal 2004 / 1, p. 307-314

<https://pubmed.ncbi.nlm.nih.gov/15142040/>

Metallothionein induces a regenerative reactive astrocyte phenotype via JAK/STAT and RhoA signalling pathways

Leung, Y.; Pankhurst, M.; **Palumaa, Peep; Sillard, Rannar** Experimental neurology 2010 / 1, p. 98-106 : ill

<https://www.sciencedirect.com/science/article/pii/S0014488609004233>

Novel, efficient and regiospecific alkylation/arylation/heteroarylation of unsymmetrical azo compounds

Tšubrik, Olga; **Sillard, Rannar**; Mäeorg, Uno Synthesis 2006 / p. 843-846

https://www.researchgate.net/publication/239239897_Novel_Efficient_and_Regiospecific_AlkylationArylationHeteroarylation_of_Unsymmetrical_Azo_Compounds

Oxidative switches in functioning of mammalian copper chaperone Cox17

Voronova, Anastassia; Meyer-Klaucke, Wolfram; Meyer, Thomas; Rompel, Anette; Krebs, Bernt; Kazantseva, Jekaterina; Sillard, Rannar; Palumaa, Peep Biochemical journal 2007 / p. 139-148 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2049083/>

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>

Proteins in the insulin-secreting cell line MIN6 bind the imidazoline compound BL11282

Shafqat, Jawed; Ishrath, Moin; Jägerbrink, Theres; **Sillard, Rannar**; Mäeorg, Uno; Efendic, Suad; Berggren, Per-Olof; Zaitsev, Sergei V.; Jörnvall, Hans FEBS letters 2008 / 11, p. 1613-1617 <https://www.sciencedirect.com/science/article/pii/S0014579308003219>

Purification of recombinant human apometallothionein-3 and reconstitution with zinc

Eriste, Elo; Kruusel, Keiu; **Palumaa, Peep**; Jörnvall, Hans; Sillard, Rannar Protein expression and purification 2003 / 1, p. 161-165 : ill

<https://pubmed.ncbi.nlm.nih.gov/12963354/>

The native copper- and zinc- binding protein metallothionein blocks copper-mediated A[beeta] aggregation and toxicity in rat cortical neurons

Chung, Roger S.; Howells, Claire; **Zovo, Kairit; Palumaa, Peep; Sillard, Rannar** PLoS ONE 2010 / 8, p. e12030 [11 p.]

<https://pmc.ncbi.nlm.nih.gov/articles/PMC2920313/>

The possible mechanisms by which phytoside stimulates insulin secretion from rat islets

Hoa, Nquyen Kahanh; Norberg, Ake; **Sillard, Rannar** Journal of endocrinology 2007 / p. 389-394