

Affinity gradients drive copper to cellular destinations

Banci, Lucia; Bertini, Ivano; Ciofi-Baffoni, Simone; Kozyreva, Tatiana; **Zovo, Kairit; Palumaa, Peep** Nature 2010 / p. 645-648 : ill <https://doi.org/10.1038/nature09018>

Dye-decolorizing peroxidases from *Streptomyces coelicolor* show organosolv lignin remodeling activity

Pupart, Hegne; Ojangu, Eve-Ly; **Zovo, Kairit; Lukk, Tiit** FEBS Open Bio 2021 / p. 63
<https://febs.onlinelibrary.wiley.com/doi/epdf/10.1002/2211-5463.13206> <https://doi.org/10.1002/2211-5463.13206>

Effect of methionine-35 oxidation on the aggregation of amyloid- β peptide

Friedemann, Merlin; Helk, Eneken; Tiiman, Ann; **Zovo, Kairit; Palumaa, Peep; Tõugu, Vello** Biochemistry and biophysics reports 2015 / p. 94-99 : ill <http://dx.doi.org/10.1016/j.bbrep.2015.07.017>

Effect of Zn(II) and Cu(II) ions on aggregation and fibrillation of amyloid-beta(1-42) peptide

Palumaa, Peep; Karafin, Ann; Zovo, Kairit; Chung, Roger S.; Howells, Claire; West, Adrian K.; **Tõugu, Vello** Sinapsa Neuroscience Conference '09 : Ljubljana, 26-29 September 2009 : abstract book 2009 / p. 34

Formation of [4Fe-4S] clusters in the mitochondrial iron-sulfur cluster assembly machinery

Brancaccio, Diego; **Zovo, Kairit; Palumaa, Peep** Journal of the American Chemical Society 2014 / p. 16240-16250 : ill

Functional characterization of the cellular copper proteome = Rakulise vase proteoomi funktsionaalne iseloomustamine **Zovo, Kairit** 2011

Human superoxide dismutase 1 (hSOD1) maturation through interaction with human copper chaperone for SOD1 (hCCS)

Banci, Lucia; Bertini, Ivano; Cantini, Francesca; Kozyreva, Tatiana; Massagni, Chiara; **Palumaa, Peep;** Rubino, Jeffrey; **Zovo, Kairit** Proceedings of the National Academy of Sciences 2012 / p. 13555-13560
https://www.researchgate.net/publication/230624025_Human_superoxide_dismutase_1_hSOD1_maturation_through_interaction_with_human_copper_chaperone_for_SOD1_hCCS

Label-free high-throughput screening assay for inhibitors of Alzheimer's amyloid-[beta] peptide aggregation based on MALDI MS

Zovo, Kairit; Helk, Eneken; Karafin, Ann; Tõugu, Vello; Palumaa, Peep Analytical chemistry 2010 / p. 8558-8565

Metal-binding properties of unique Cys-deficient mammalian metallothionein - sheep MT-3

Smirnova, Julia; Zovo, Kairit; Chung, Roger S.; West, A.K.; **Palumaa, Peep** FEBS journal 2008 / Suppl. 1, p. 230

Modulation of redox switches of copper chaperone Cox17 by Xn(II) ions determined by new ESI MS-based approach

Zovo, Kairit; Palumaa, Peep Antioxidants & redox signaling 2009 / 5, p. 985-995 <https://pubmed.ncbi.nlm.nih.gov/19018666/>

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

Oxidation of Methionine-35 in Alzheimer's amyloid-beta peptide and the aggregation of the oxidized peptide

Friedemann, Merlin; Helk, Eneken; Tiiman, Ann; **Zovo, Kairit; Palumaa, Peep; Tõugu, Vello** SpringerPlus 2015 / p. 20, P13
<http://dx.doi.org/10.1186/2193-1801-4-S1-P13>

Rakulise vase proteoomi süsteemibioloogia

Palumaa, Peep; Zovo, Kairit XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 73 : ill

Structural and functional insight into trafficking of copper in the cell

Palumaa, Peep; Banci, Lucia; Bertini, Ivano; Ciofi-Baffoni, Simone; **Zovo, Kairit** Journal of biological inorganic chemistry 2014 / p. S851

Substitution of the Methionine Axial Ligand of the T1 copper for the fungal-like Phenylalanine Ligand (M298F) causes local structural perturbations that lead to thermal instability and reduced catalytic efficiency of the small Laccase from *Streptomyces coelicolor* A3(2)

Zovo, Kairit; Pupart, Hegne; Van Wieren, Arie; Gillilan, Richard E.; **Lukk, Tiit** ACS omega 2022 / p. 6184-6194
<https://doi.org/10.1021/acsomega.1c06668> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Zn(II) and Cu(II)-induced non-fibrillar aggregates of amyloid-[beta](1-42) peptide are transformed to amyloid fibrils both spontaneously and under the influence of metal chelators

Tõugu, Vello; Karafin, Ann; Zovo, Kairit; Chung, Roger S.; Howells, Claire; West, Adrian; **Palumaa, Peep** Journal of neurochemistry 2009 / 6, p. 1784-1795 : ill

The native copper- and zinc-binding protein metallothionein blocks copper-mediated A[β] 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.]