

### 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- $\beta$ 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  
<https://doi.org/10.1021/ja507822j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Functional characterization of the cellular copper proteome = Rakulise vase proteoomi funtsionaalne iseloomustamine

Zovo, Kairit 2011

### Higher AMPK activation in mouse oxidative compared with glycolytic muscle does not correlate with LKB1 or CaMKK $\beta$ expression

Bernasconi, Romain; Soodla, Kärol; Sirp, Alex; Zovo, Kairit; Kuhtinskaja, Maria; Lukk, Tiit; Vendelin, Marko; Birkedal, Rikke American journal of physiology - Endocrinology and metabolism 2025 / p. E21-E33 <https://doi.org/10.1152/ajpendo.00261.2024>

### 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](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-[beata] peptide aggregation based on MALDI MS

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

[https://www.researchgate.net/publication/46392320\\_Label-Free\\_High-Throughput\\_Screening\\_Assay\\_for\\_Inhibitors\\_of\\_Alzheimer's\\_Amyloid-beta\\_Peptide\\_Aggregation\\_Based\\_on\\_MALDI\\_MS](https://www.researchgate.net/publication/46392320_Label-Free_High-Throughput_Screening_Assay_for_Inhibitors_of_Alzheimer's_Amyloid-beta_Peptide_Aggregation_Based_on_MALDI_MS)

### 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](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 süsteembioloogia

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

**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 <https://pubmed.ncbi.nlm.nih.gov/19619132/>

**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/>