

**Copper(I)-binding properties of de-coppering drugs for the treatment of Wilson disease.  $\alpha$ -Lipoic acid as a potential anti-copper agent**

**Smirnova, Julia; Kabin, Ekaterina; Järving, Ivar; Bragina, Olga; Tõugu, Vello; Plitz, Thomas; Palumaa, Peep** Scientific reports 2018 / art. 1463, 9 p. : ill <https://doi.org/10.1038/s41598-018-19873-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Copper(I)-binding properties of de-coppering drugs for treatment of Wilson disease**

**Smirnova, Julia; Kabin, Ekaterina; Järving, Ivar; Tõugu, Vello; Plitz, T.; Palumaa, Peep** The FEBS journal 2017 / p. 337 <https://doi.org/10.1111/febs.14174>

**Copper(II)-binding equilibria in human blood**

**Kirsipuu, Tiina; Zadorožnaja, Anna; Smirnova, Julia; Friedemann, Merlin; Plitz, Thomas; Tõugu, Vello; Palumaa, Peep** Scientific reports 2020 / art. 5686, 10 p. : ill <https://doi.org/10.1038/s41598-020-62560-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of Zn<sup>2+</sup>- and Cu<sup>2+</sup>-binding affinities of native Cu,Zn-SOD1 and its G93A mutant by LC-ICP MS**

**Smirnova, Julia; Gavrilova, Julia; Noormägi, Andra; Valmsen, Karin; Pupart, Hegne; Luo, Jinghui; Tõugu, Vello; Palumaa, Peep** Molecules 2022 / art. 3160 <https://doi.org/10.3390/molecules27103160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Investigation of properties and reaction mechanisms of redox-active proteins by ESI MS = Redoks-aktiivsete valkude omaduste ja reaktsioonimehhanismide uurimine ESI-MS abil**

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**Maximum entropy reconstruction of joint [phi], [psi]-distribution with a coil-library prior : the backbone conformation of the peptide hormone motilin in aqueous solution from [phi] and [psi]-dependent J-couplings**

**Massad, Tariq; Jarvet, Jüri; Tanner, Risto; Tomson, Katrin; Smirnova, Julia; Palumaa, Peep; Sugai, Mariko; Kohno, Toshiyuki; Vanatalu, Kalju; Damberg, Peter** Journal of biomolecular NMR 2007 / 2, p. 107-123 [https://www.researchgate.net/publication/6369716\\_Maximum\\_entropy\\_reconstruction\\_of\\_joint\\_phi-ps-distribution\\_with\\_a\\_coil-library\\_prior](https://www.researchgate.net/publication/6369716_Maximum_entropy_reconstruction_of_joint_phi-ps-distribution_with_a_coil-library_prior) [The backbone conformation of the peptide hormone motilin in aqueous solution from phi and ps-dependent J-couplings](#)

**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

**Quantitative electrospray ionization mass spectrometry of zinc finger oxidation : the reaction of XPA zinc finger with H<sub>2</sub>O<sub>2</sub>**

**Smirnova, Julia; Zhukova, Liliya; Palumaa, Peep** Analytical biochemistry 2007 / 2, p. 226-231 : ill

**Reaction of the XPA zinc finger with S-nitrosoglutathione**

**Smirnova, Julia; Zhukova, Liliya; Witkiewicz-Kucharczyk, Aleksandra; Kopera, Edyta; Oledzki, Jacek; Wyslouch-Cieszyńska, Aleksandra; Palumaa, Peep; Hartwig, Andrea; Bal, Wojciech** Chemical research in toxicology 2008 / p. 386-392 : ill <https://pubs.acs.org/doi/10.1021/tx700297f>

**Redox and metal ion binding properties of human insulin-like growth factor 1 determined by electrospray ionization mass spectrometry**

**Smirnova, Julia; Muhhina, Ekaterina; Tõugu, Vello; Palumaa, Peep** Biochemistry 2012 / p. 5851-5859 : ill <https://pubs.acs.org/doi/10.1021/bi300494s>

**Redox properties of Cys<sup>2</sup>His<sup>2</sup> and Cys<sup>4</sup> zinc fingers determined by electrospray ionization mass spectrometry**

**Smirnova, Julia; Kabin, Ekaterina; Tõugu, Vello; Palumaa, Peep** FEBS Open Bio 2018 / p. 923 - 931 <https://doi.org/10.1002/2211-5463.12422> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Zn(II) ions co-secreted with insulin suppress inherent amyloidogenic properties of monomeric insulin**

**Noormägi, Andra; Gavrilova, Julia; Smirnova, Julia; Tõugu, Vello; Palumaa, Peep** Biochemical journal 2010 / p. 511-518 <https://pubmed.ncbi.nlm.nih.gov/20632994/>

**Zn(II) ions inhibit fibrillization of monomeric insulin**

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**The role of initial oligomers in amyloid fibril formation by human stefin B**

**Taler-Verčič, Ajda; Kirsipuu, Tiina; Friedemann, Merlin; Noormägi, Andra; Smirnova, Julia; Palumaa, Peep** International journal of molecular sciences 2013 / p. 18362-18384 : ill <https://doi.org/10.3390/ijms140918362> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**$\alpha$ -lipoic acid ameliorates consequences of copper overload by up-regulating selenoproteins and decreasing redox misbalance**

**Kabin, Ekaterina**; Dong, Yixuan; Roy, Shubhrajit; **Smirnova, Julia**; Smith, Joshua W.; Ralle, Martina; Summers, Kelly; Yang, Haojun; Dev, Som; Wang, Yu; Devenney, Benjamin; Cole, Robert N.; **Palumaa, Peep**; Lutsenko, Svetlana Proceedings of the National Academy of Sciences 2023 / art. e2305961120 <https://doi.org/10.1073/pnas.2305961120> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**$\alpha$ -Lipoic acid: a potential regulator of copper metabolism in Alzheimer's disease**

**Kirss, Sigrid**; Reinapu, Anette; **Kabin, Ekaterina**; **Smirnova, Julia**; Tõugu, Vello; **Palumaa, Peep** Frontiers in Molecular Biosciences 2024 / art. 1451536 <https://doi.org/10.3389/fmolb.2024.1451536> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)