

## Affinity of zinc and copper ions for insulin monomers

Gavrilova, Julia; Tõugu, Vello; Palumaa, Peep Metallomics 2014 / p. 1296-1300 : ill

## Amyloid beta 1-42 oligomerization in vitro and characterization with SDS-PAGE, MALDI and ESI MS

Friedemann, Merlin; Tõugu, Vello; Kirsipuu, Tiina; Palumaa, Peep FEBS journal 2013 / p. 140-141

## Binding of zinc(II) and copper(II) to the full-length Alzheimer's amyloid-[beeta] peptide

Tõugu, Vello; Karafin, Ann; Palumaa, Peep Journal of neurochemistry 2008 / p. 1249-1259 : ill

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

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## Coordination of zinc ions to the key proteins of neurodegenerative diseases: A[beeta], APP, [alfa]-synuclein and PrP

Tõugu, Vello; Palumaa, Peep Coordination chemistry reviews 2012 / p. 2219-2224 : ill

[https://www.researchgate.net/publication/236131300\\_Coordination\\_of\\_zinc\\_ions\\_to\\_the\\_key\\_proteins\\_of\\_neurodegenerative\\_diseases\\_Ab\\_APP\\_alpha-synuclein\\_and\\_PrP](https://www.researchgate.net/publication/236131300_Coordination_of_zinc_ions_to_the_key_proteins_of_neurodegenerative_diseases_Ab_APP_alpha-synuclein_and_PrP)

## Copper(I)-binding properties of de-coppering drugs for the treatment of Wilson disease. α-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

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## Copper(II) ions and the Alzheimer's amyloid-β peptide : affinity and stoichiometry of binding

Tõugu, Vello; Friedemann, Merlin; Tiiman, Ann; Palumaa, Peep AIP conference proceedings 2014 / p. 109-111

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

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## Cu(II) partially protects three histidine residues and the N-terminus of amyloid-β peptide from diethyl pyrocarbonate (DEPC) modification

Friedemann, Merlin; Tõugu, Vello; Palumaa, Peep FEBS Open Bio 2020 / p. 1072-1081 <https://doi.org/10.1002/2211-5463.12857> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Direct competition of ATCUN peptides with human serum albumin for copper(II) ions determined by LC-ICP MS

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## Effect of agitation on the peptide fibrillization: Alzheimer's amyloid- b peptide 1-42 but not amylin and insulin fibrils can grow under quiescent conditions

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

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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

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**Fibrillization of the mixtures of amyloid beta 1-40 and 1-42**

Krištal, Jekaterina; Friedemann, Merlin; Tõugu, Vello; Palumaa, Peep **Neurodegenerative diseases 2015 / p. 364**  
<http://dx.doi.org/10.1159/000381736>

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Tiiman, Ann; Krištal, Jekaterina; Palumaa, Peep; Tõugu, Vello **AIP advances 2015 / p. 092401-1 - 092401-12 : ill**  
<http://dx.doi.org/10.1063/1.4921071>

**Insulin fibrillization at acidic and physiological pH values is controlled by different molecular mechanisms**

Noormägi, Andra; Valmsen, Karin; Tõugu, Vello; Palumaa, Peep **The protein journal 2015 / p. 398-403 : ill**  
<http://dx.doi.org/10.1007/s10930-015-9634-x>

**Interactions of zinc(II) and copper(II) to the full-length Alzheimer's amyloid-B peptide in vitro**

Karafin, Ann; Palumaa, Peep; Tõugu, Vello **FEBS journal 2008 / Suppl. 1, p. 222**

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**Lipase action on some non-triglyceride substrates**

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**Lipase-catalysed enantioselective hydrolysis of bicyclo[3.2.0]heptanol esters in supercritical carbon dioxide**

Parve, Omar; Vallikivi, Imre; Lahe, Lilja; Metsala, Andrus; Lille, Ülo; Tõugu, Vello; Vija, Heiki; Pehk, Tõnis **Bioorganic & medicinal chemistry letters 1997 / 7, p. 811-816**

"Lipolase" allub sekundaarse te alkoholide enantioelistuse üldisele reeglile nii vesi kui ka superkriitilise SKCO<sub>2</sub> keskkonnas = "Lipolase" obeys the general enantiopreference rule of secondary alcohols in water and supercritical (SC)CO<sub>2</sub> media as well

Lille, Ülo; Metsala, Andrus; Parve, Omar; Tõugu, Vello; Vija, Heiki XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaatid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 101-102

**Mercury ion binding to apolipoprotein E variants ApoE2, ApoE3, and ApoE4 : similar binding affinities but different structure induction effects**

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**Metallothionein 2A affects the cell respiration by suppressing the expression of mitochondrial protein cytochrome c oxidase subunit II**

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**Monitoring of A-beta fibrillization using an improved fluorimetric method**

Karafin, Ann; Palumaa, Peep; Tõugu, Vello **New Trends in Alzheimer and Parkinson Disorders : ADPD 2009 2009 / p. 255-259**  
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**Surface carboxylation or PEGylation decreases CuO nanoparticles' cytotoxicity to human cells in vitro without compromising their antibacterial properties**  
Kubo, Anna-Liisa; **Vasiliev, Grigory**; Vija, Heiki; Kristal, Jekaterina; **Tõugu, Vello**; Visnapuu, Meeri; Kisand, Vambola; **Kahru, Anne**; Bondarenko, Olesja Archives of toxicology 2020 / p. 1561-1573 : ill <https://doi.org/10.1007/s00204-020-02720-7>

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