

**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

**Copper(II) ions and the Alzheimer's amyloid- $\beta$  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**

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](#)

**Cu(II) partially protects three histidine residues and the N-terminus of amyloid- $\beta$  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](#)

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

Tiiman, Ann; Noormägi, Andra; Friedemann, Merlin; Krištál, Jekaterina; Palumaa, Peep; Tõugu, Vello Journal of peptide science 2013 / p. 386-391 : ill <https://doi.org/10.1002/psc.2513> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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>

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

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

**Mercury and Alzheimer's disease: Hg(II) ions display specific binding to the amyloid- $\beta$  peptide and hinder its fibrillization**

Wallin, Cecilia; Friedemann, Merlin; Sholts, Sabrina B.; Noormägi, Andra; Svantesson, Teodor; Järvet, Jüri; Roos, Per M.; Palumaa, Peep; Gräslund, Astrid; Wärmländer, Sebastian K.T.S. Biomolecules 2020 / art. 44, 23 p. : ill <https://doi.org/10.3390/biom10010044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oligomerization and conformation of amyloidogenic protein human stefin B. Insight from ESI MS**

Kumm, Tiina; Taler-Verecic, Ajda; Skerget, Katja; Friedemann, Merlin; Zerovnik, Eva; Palumaa, Peep FEBS journal 2010 / Suppl. 1, lk. 258

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

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

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