Additional File 9

Endo-Lysosomal Proteins and Ubiquitin CSF Concentrations in Alzheimer's and Parkinson's Disease

Simon Sjödin[1,2], Gunnar Brinkmalm[1,2], Annika Öhrfelt[1,2], Lucilla Parnetti[3], Silvia Paciotti[4], Oskar Hansson[5,6], John Hardy[7], Kaj Blennow[1,2], Henrik Zetterberg[1,2,7,8], Ann Brinkmalm[1,2]

[1]Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, the Sahlgrenska Academy at the University of Gothenburg, Mölndal, Sweden

[2]Clinical Neurochemistry Laboratory, Sahlgrenska University Hospital, Mölndal, Sweden

[3]Neurology Clinic, University of Perugia, Perugia, Italy

[4]Department of Pharmaceutical Sciences, University of Perugia, Perugia, Italy

[5]Clinical Memory Research Unit, Department of Clinical Sciences Malmö, Lund University, Lund, Sweden

[6]Memory Clinic, Skåne University Hospital, Malmö, Sweden

[7]Department of Molecular Neuroscience, University College London Institute of Neurology, Queen Square, London, UK

[8]UK Dementia Research Institute at UCL, London, United Kingdom

Corresponding Author: Simon Sjödin, Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, the Sahlgrenska Academy at the University of Gothenburg, House V3, SU/Mölndal, SE-43180, Mölndal, Sweden. simon.sjodin@neuro.gu.se.

Content

Figure S4

Figure S4. CSF protein concentrations in *APOE* ε4 carriers. In Clinical Study II a subset of the participants had known *APOE* genotype. *APOE* ε4 carriers (*APOE* ε4 +), having one or two ε4 alleles, were compared to non-carriers (*APOE* ε4 –). The carriers vs. non-carriers where compared within the groups, controls (carriers, N = 10, non-carriers, N = 17) and AD (carriers, N = 25, non-carriers, N =10), respectively. Significant different CSF concentrations were identified between control carriers and control non-carriers for peptides (A) C9_232-242 ($P < 0.05$), (B) C9_497-508 ($P < 0.05$), (C) CTSF_442-450 ($P < 0.05$), (D) DPP7_113-123 ($P < 0.05$) and (E) GM2A_89-96 ($P < 0.05$). Statistics were calculated using Wilcoxon 2-sample rank sum test and the graphs show Tukey boxplots.

A C9_232-242

B C9_497-508

C CTSF_442-450

D DPP7_113-123

E GM2A_89-96