

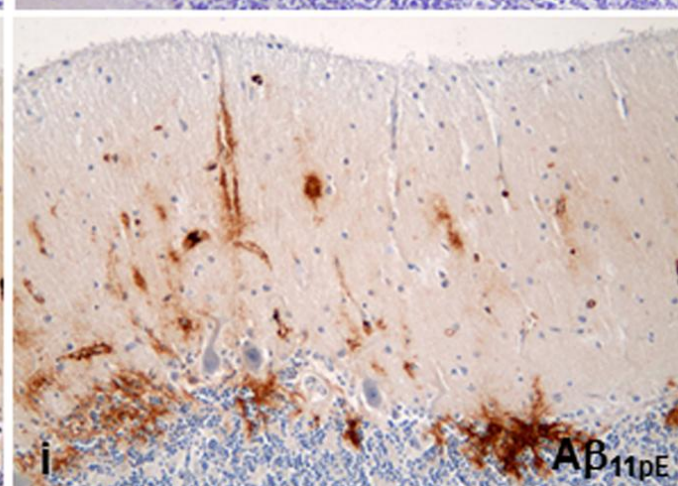
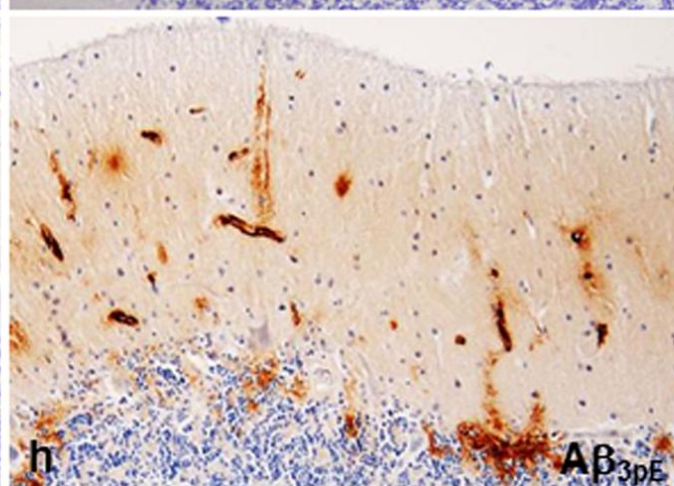
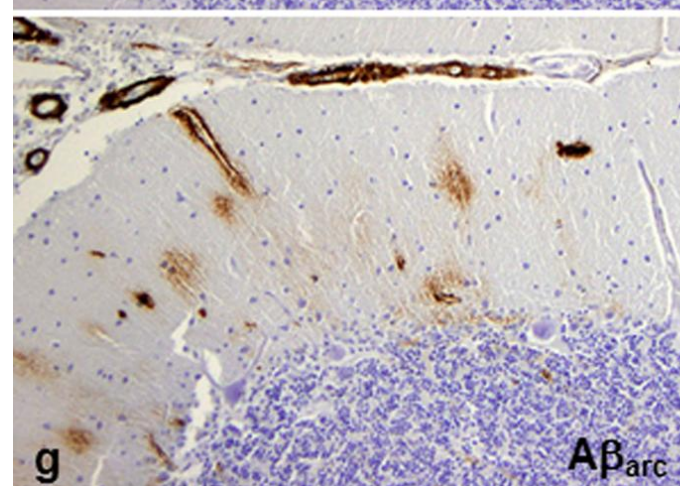
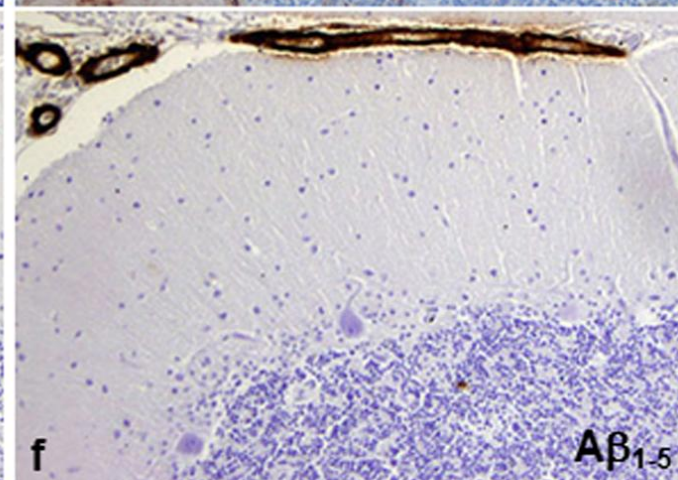
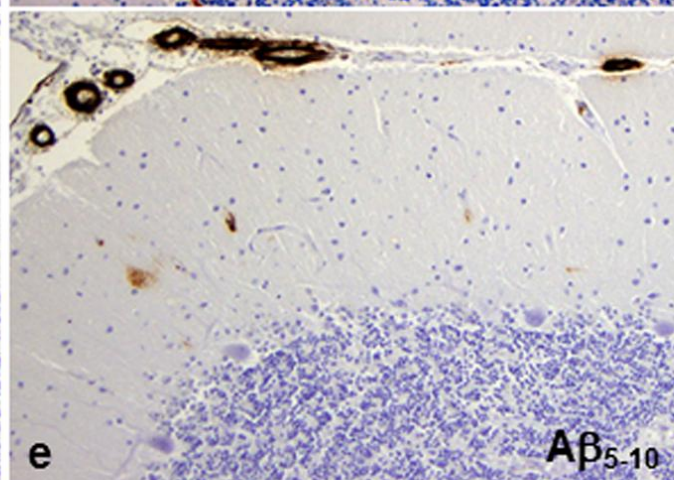
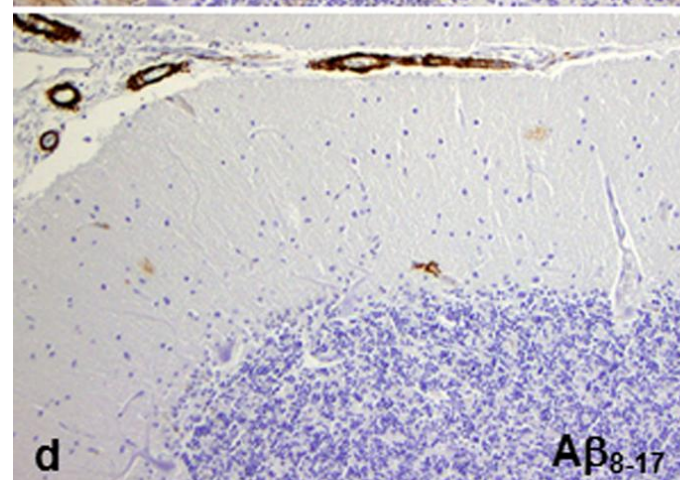
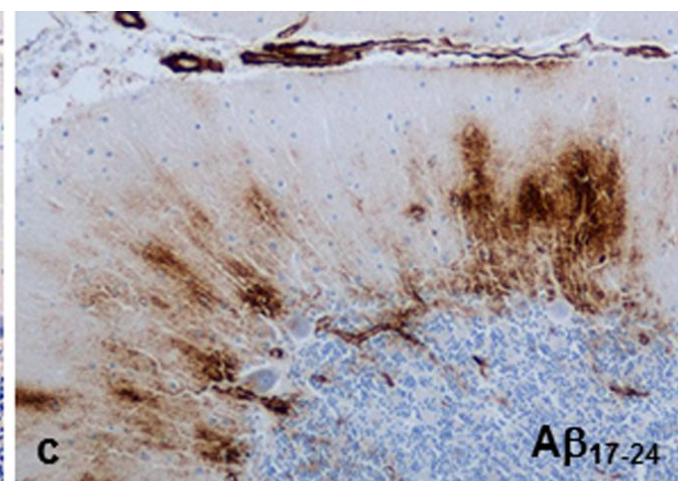
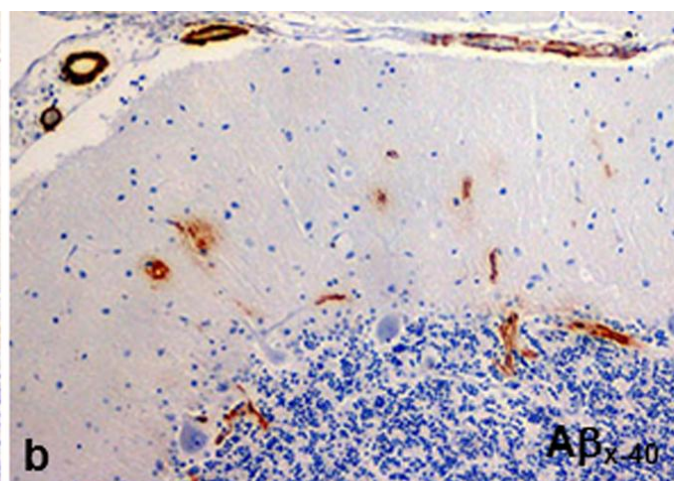
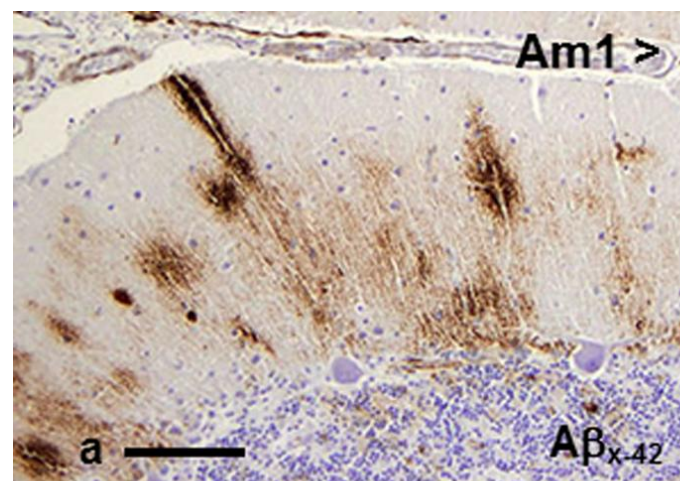
Title: The *Arctic APP* mutation leads to Alzheimer's disease pathology with highly variable topographic deposition of differentially truncated A β

Journal: Acta Neuropathologica Communications

Authors: Hannu Kalimo¹, Maciej Lalowski, Nenad Bogdanovic, Ola Philipson, Thomas D. Bird, David Nochlin, Gerard D. Schellenberg, RoseMarie Brundin, Tommie Olofsson, Marc Baumann, Oliver Wirths, Thomas A. Bayer, Lars N.G. Nilsson, Hans Basun, Lars Lannfelt, Martin Ingelsson

Corresponding author: ¹Hannu Kalimo, Department of Pathology, University and University Hospital of Helsinki, Helsinki, Finland,

E-mail: hannu.kalimo@helsinki.fi



Suppl. Fig. 6 a-i: Immunostainings of Am1 patient's cerebellum demonstrates the marked inter-individual variation despite the same genetic defect (cf. Fig. 5). Only abA β_{x-42} and abA β_{17-24} are clearly positive (**a** and **c**), whereas abA β_{x-40} (**b**) and the more N-terminal abA β_{8-17} , abA β_{5-10} and abA β_{1-5} (**d-f**) give virtually no parenchymal staining, even though the blood vessels are strongly positive. Weak staining with abA β_{arc} (**g**) is consistent with most parenchymal deposits being composed of wild-type A β . A fair proportion of the deposited A β appears to have pyroglutamate N-termini (**h** and **i**). (*bar in a* 150 μ m for all panels)