Supplementary Table 3 DupAPP clinical and pathological summary 1-11

Supplementary Table 3 DupAFF Clinical and pathological Summary						
Reference	Affected individuals	Size of duplication	Age of onset of AD/ ICH (years)	Seizures	ICH/ strokes	Neuropathology
Rovelet- Lecrux et al, 2006	5 kindreds (14 confirmed cases) France	0.58 Mb – 6.37 Mb	42 – 59 (in all confirmed cases)	Not reported	4 / 14 (29%)	5 cases from 3 kindreds AD + severe CAA; micro infarcts in 3
Sleegers et al, 2006	1 kindred (4 confirmed cases) and 1 other proband Netherlands	0.7 Mb	53 – 62 (in all confirmed cases)	3 / 4 (75%)	several in kindred had strokes	1 case – AD + CAA
Rovelet- Lecrux et al, 2006 & Rovelet- Lecrux et al 2007	1 kindred, 14 affected individuals Finland	0.55 Mb	40 – 54 (in all affected cases)	2 / 14 (14%)	5 / 14 (36%)	3 cases - AD + CAA
Thonberg et al, 2011	1 proband Sweden	1.09 Mb	55	Not reported	-	-
Kasuga et al, 2011	2 probands Japan		52 – 53	None	1 / 2 (50%, on CT scan)	-
Wallon et al, 2012	7 kindreds, 19 affected individuals France	0.83 Mb – 14.7 Mb	41 – 64 (in all affected cases)	16 / 19 cases (84%; index symptom in 2)	Cases in all 7 kindreds	5 cases - moderate to severe AD + severe CAA 1 case cortical Lewy Bodies
McNaughton et al, 2012	5 probands UK	1.6 – 6.6 Mb; one with interrupted duplication of 15.5 Mb	39 – 61 (in all affected probands)	4/4 (100%)	1/5(20%)	-
Hooli et al, 2012 ; Hooli et al, 2014	2 kindreds, 5 affected individuals USA	0.38 Mb (APP only) & 3.4 Mb	43 – 52 years; one case with no disease at age 60	-	-	-
Swaminathan et al, 2012	1 proband USA	0.5 Mb	59	Not reported	Not reported	Not reported
Llado et al, 2014	1 proband Spain	14.5 Mb	54	-	Yes (presented with ICH)	AD + severe CAA

Reference List

- 1. Hooli,B.V. *et al.* Role of common and rare APP DNA sequence variants in Alzheimer disease. *Neurology* **78**, 1250-1257 (2012).
- 2. Hooli,B.V. *et al.* Rare autosomal copy number variations in early-onset familial Alzheimer's disease. *Molecular Psychiatry* **19**, 676-681 (2014).
- 3. Kasuga, K. *et al.* Identification of independent APP locus duplication in Japanese patients with early-onset Alzheimer disease. *Journal of Neurology Neurosurgery and Psychiatry* **80**, 1050-1052 (2009).
- 4. Llado, A. *et al.* Large APP locus duplication in a sporadic case of cerebral haemorrhage. *Neurogenetics* **15**, 145-149 (2014).

- 5. McNaughton,D. *et al.* Duplication of amyloid precursor protein (APP), but not prion protein (PRNP) gene is a significant cause of early onset dementia in a large UK series. *Neurobiol Aging* (2010).
- 6. Rovelet-Lecrux, A. *et al.* APP locus duplication causes autosomal dominant early-onset Alzheimer disease with cerebral amyloid angiopathy. *Nat Genet* **38**, 24-26 (2006).
- 7. Rovelet-Lecrux, A. et al. APP locus duplication in a Finnish family with dementia and intracerebral haemorrhage. *Journal of Neurology Neurosurgery and Psychiatry* **78**, 1158 (2007).
- 8. Sleegers, K. *et al.* APP duplication is sufficient to cause early onset Alzheimer's dementia with cerebral amyloid angiopathy. *Brain* **129**, 2977-2983 (2006).
- 9. Swaminathan, S. *et al.* Analysis of Copy Number Variation in Alzheimer's Disease in a Cohort of Clinically Characterized and Neuropathologically Verified Individuals. *Plos One* **7**, (2012).
- 10. Thonberg, H. *et al.* Mutation screening of patients with Alzheimer disease identifies APP locus duplication in a Swedish patient. *BMC Research Notes* **4**, 476 (2011).
- 11. Wallon, D. et al. The French Series of Autosomal Dominant Early Onset Alzheimer's Disease Cases: Mutation Spectrum and Cerebrospinal Fluid Biomarkers. *Journal of Alzheimers Disease* **30**, 847-856 (2012).