Supplementary Figure 1. A schematic diagram, summarizing the overlapping features of mental retardation (MR), Alzheimer’s disease (AD) and human APPswe Tg2576 transgenic mice. Dendritic spine and cognitive defects characterize all three conditions. Down’s syndrome appears to encompass the attributes of all three because of its shared features with AD (Aβ accumulation and tangles, oxidative stress, etc) and APPswe Tg2576 mice (overexpression of the APPswe mutation, early cognitive deficits), and because it is the most common cause of MR syndrome.