

Description of Additional Supplementary Files

Supplementary Movie 1 | Human iPSC microglia exhibit dynamic activities during A β plaque formation. Live cell imaging movie (30 minutes/second) using 10X objective and Incucyte Zoom software over a 7-day timelapse shows human iPSC microglia (phase) exhibit dynamic activities and aggregate 5uM 5% HiLyte-555 labeled A β 42 monomers (red) into A β plaque-like structures.

Supplementary Movie 2 | Human CD14-derived macrophages continuously internalize A β and do not form extracellular plaques. Live cell imaging movie (30 minutes/second) using 10X objective and Incucyte Zoom software over a 7-day timelapse shows human CD14-derived macrophages (phase) show low motility when treated with 5uM 5% HiLyte-555 labeled A β 42 monomers (red) and continuously internalize A β

Supplementary Movie 3 | Human iPSC microglia exhibit dynamic activities during A β plaque formation. Live cell imaging movie (30 minutes/second) using 10X objective and Incucyte Zoom software over a 7-day timelapse with human iPSC microglia (phase) treated with 5uM soluble A β species labeled by HiLyte555 and pHrodo Green. Microglia (phase) continuously internalize A β (green) before plaque formation (red) in the center of a group of cultured microglia.