**Source Data for Nearest neighbor analysis (Figure 4)**

This .zip folder contains representative SIM data used for quantification of nearest neighbor distances related to Figure 4.

Each folder relates to different cell line: “GFP-PSEN1 APP” folder relates to sKO GFP-PSEN1 cell line probed with APP antibody; “GFP-PSEN1 N-cadherin” folder relates to sKO GFP-PSEN1 cell line probed with N-cadherin antibody; “GFP-PSEN1 ADAM10” folder relates to sKO GFP-PSEN1 cell line transiently expressing ADAM10-SNAP and stained with SiR-substrate; “GFP-PSEN1 BACE1” folder relates to sKO GFP-PSEN1 cell line stably expressing BACE1-SNAP FACSorted for low levels and stained with SiR-substrate.

Each folder contains subfolders showing ROIs with background substraction (done by adjusting intensity histogram) and ROIs mask (done by H-watershed, ImageJ). The final mask was used to localize spot centorids used during nearest naighbor analysis.