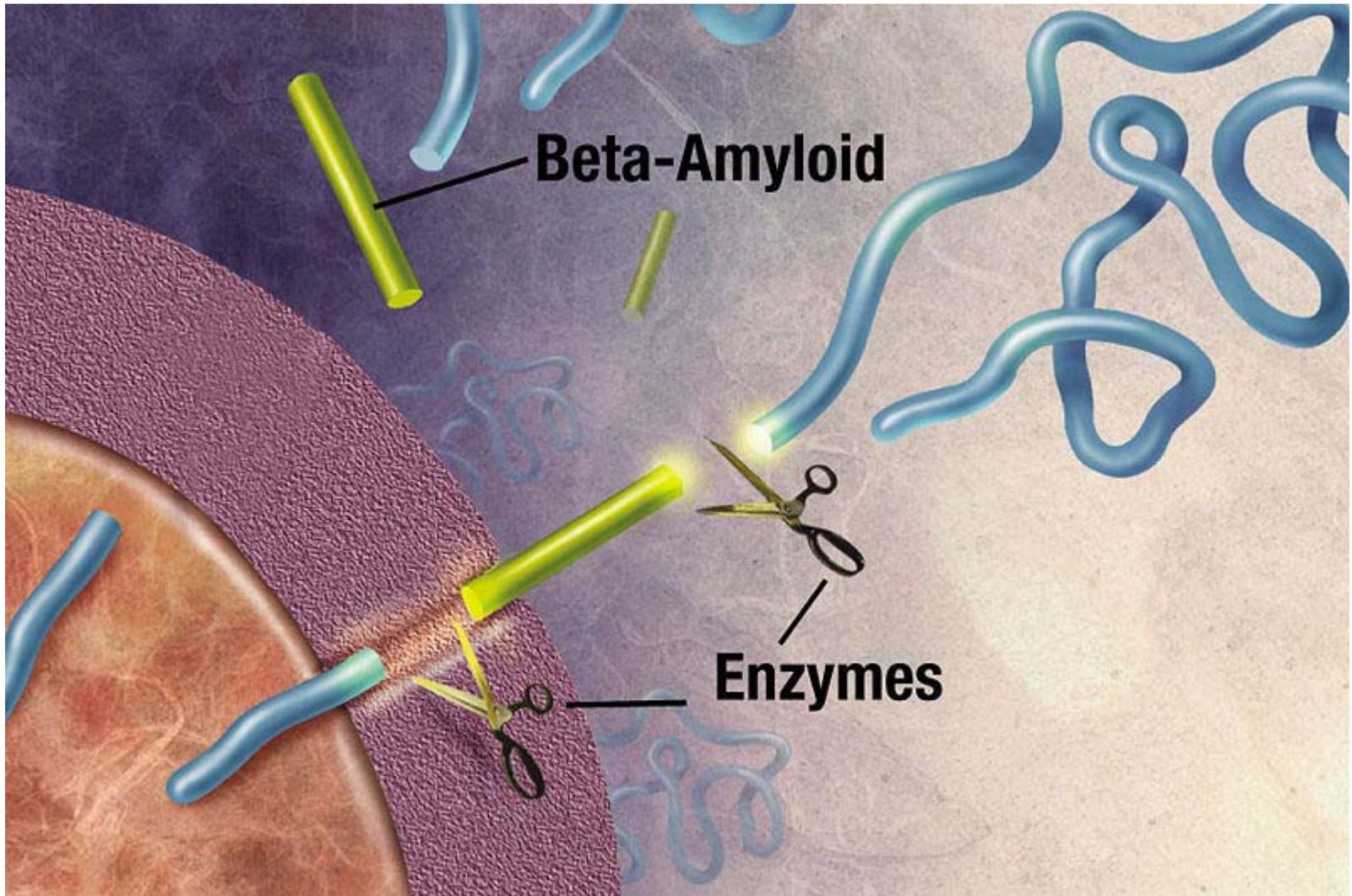


# Complicating the model of LTP

# Today's Papers

# Alzheimer's disease

- Plaques and tangles
- Amyloid beta
- Phosphorylated tau
- Presenilins



Enzymes act on the APP (Amyloid precursor protein) and cut it into fragments of protein, one of which is called beta-amyloid and its crucial in the formation of senile plaques in Alzheimer. (Image courtesy of the [National Institute on Aging.](#))

# $\beta$ -Amyloid Plaques

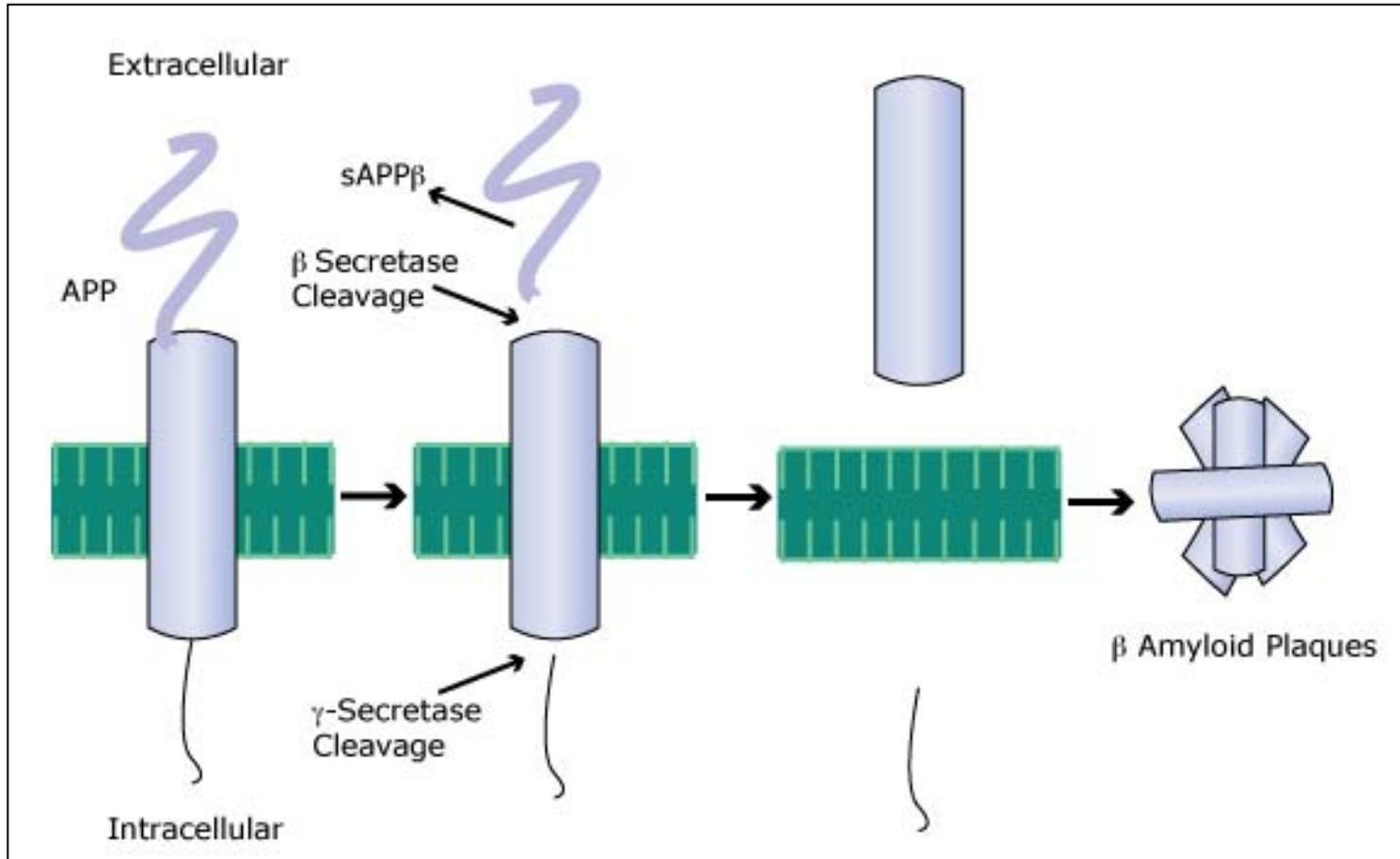


Image by MIT OpenCourseWare

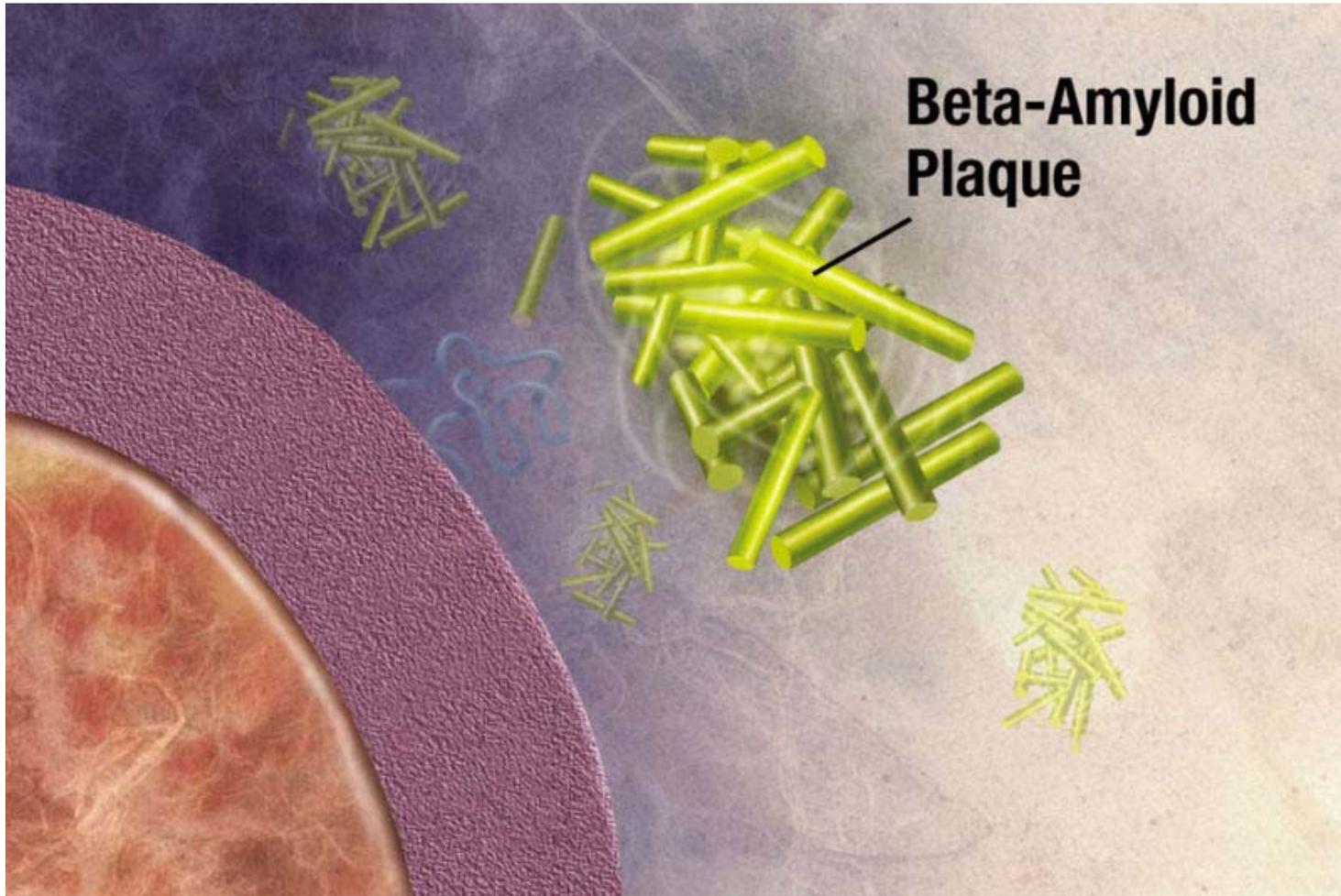


Image courtesy of the [National Institute on Aging](https://www.nia.nih.gov/).

# Presenilin1-2

- Mutations cause high risk for FAD
- 7 transmembrane proteins
- May affect Amyloid Beta cleavage

# Questions for next week

- Morris – when should a cued platform be used?
- Halagappa et al. – How does the experiment described in figure 1 affect the interpretation of the experiments in figures 2-4?