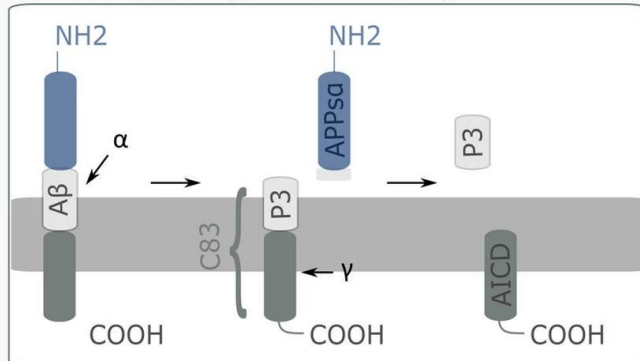
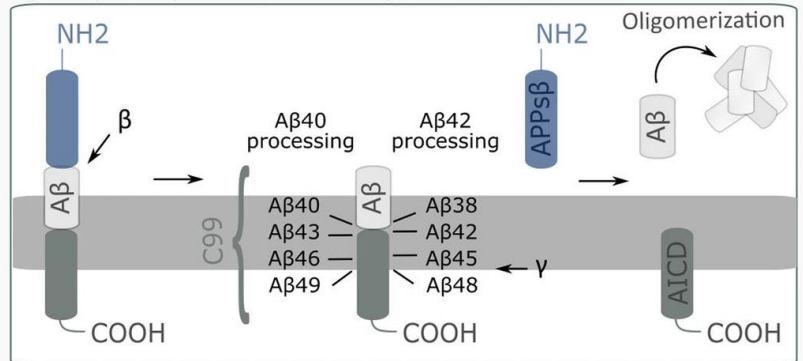
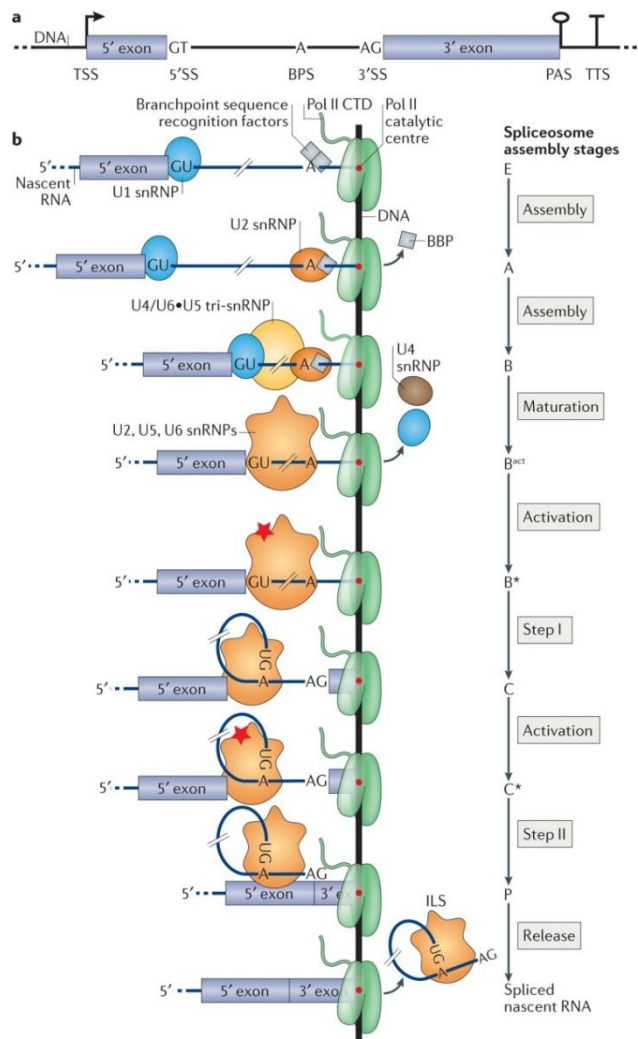


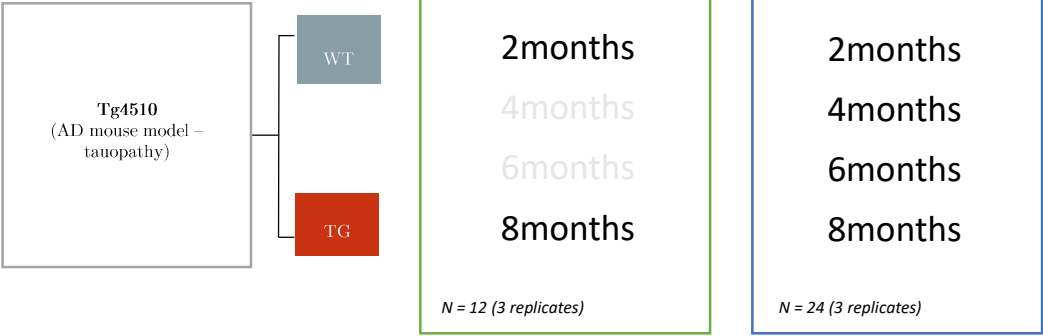
A Non-amyloidogenic APP cleavage

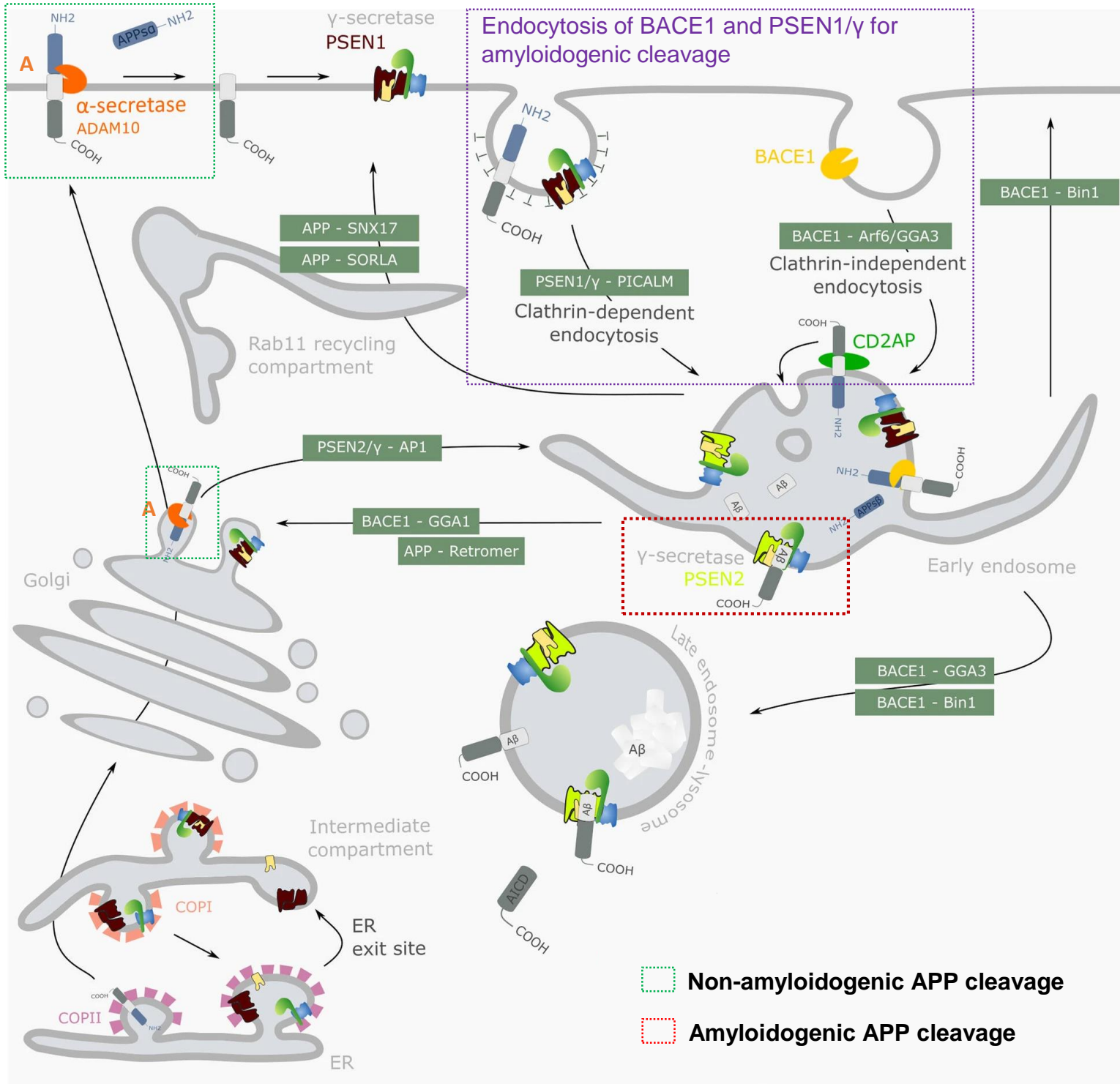


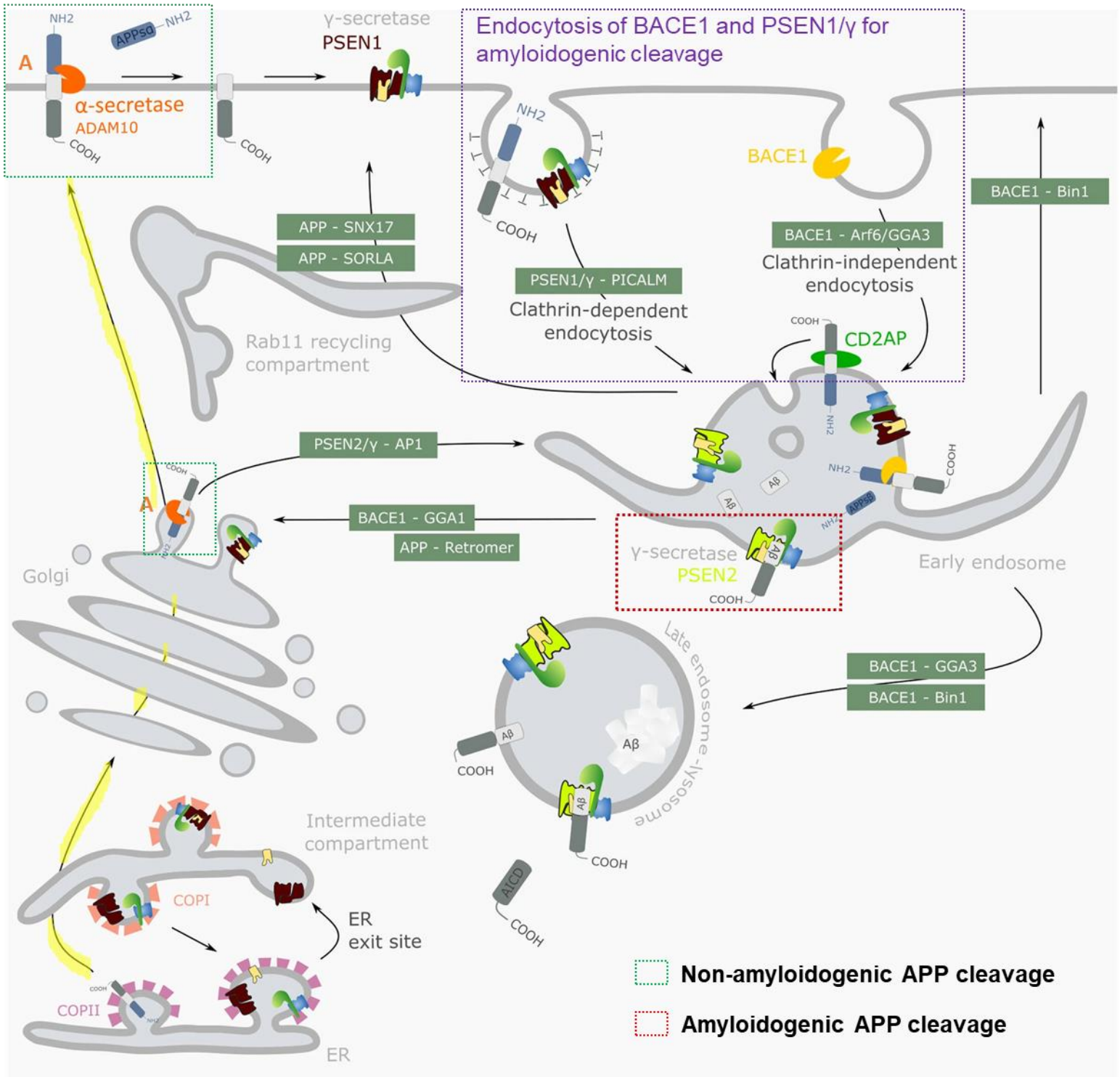
B Amyloidogenic APP cleavage



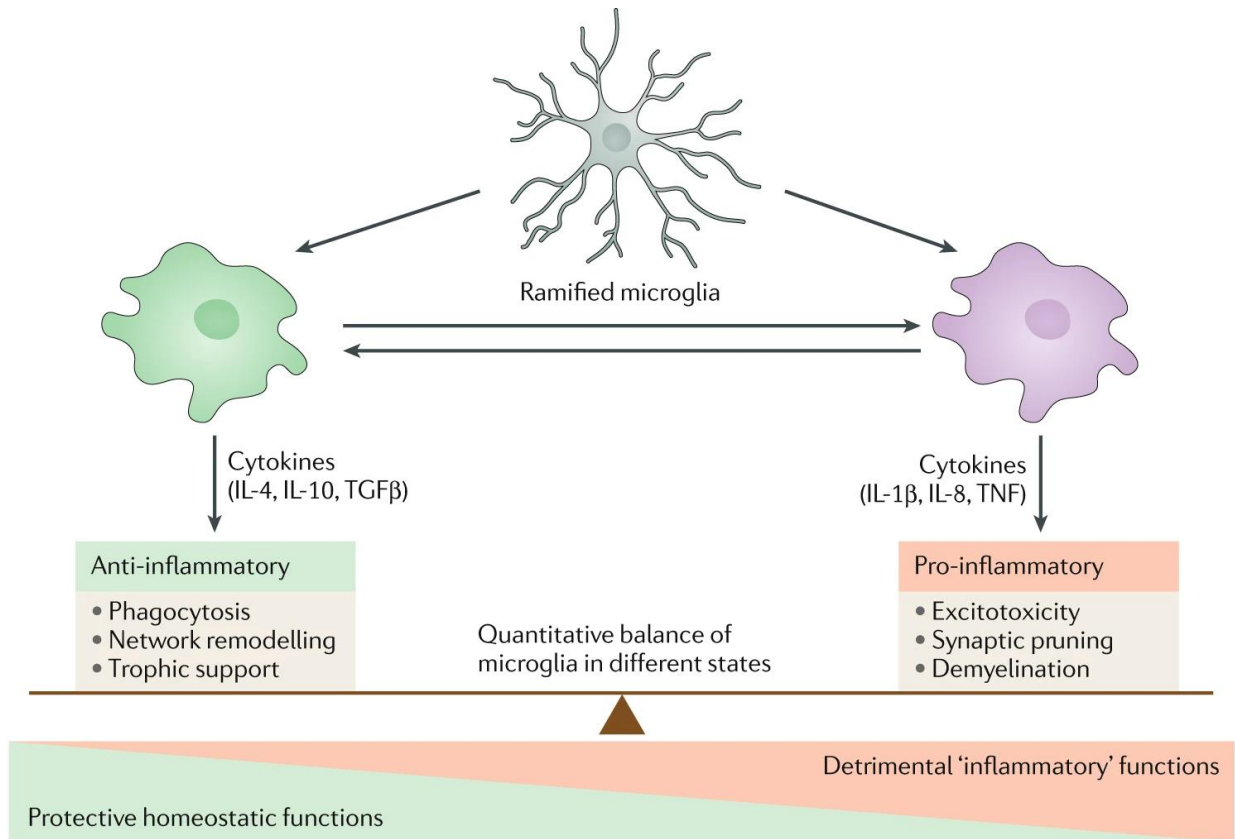




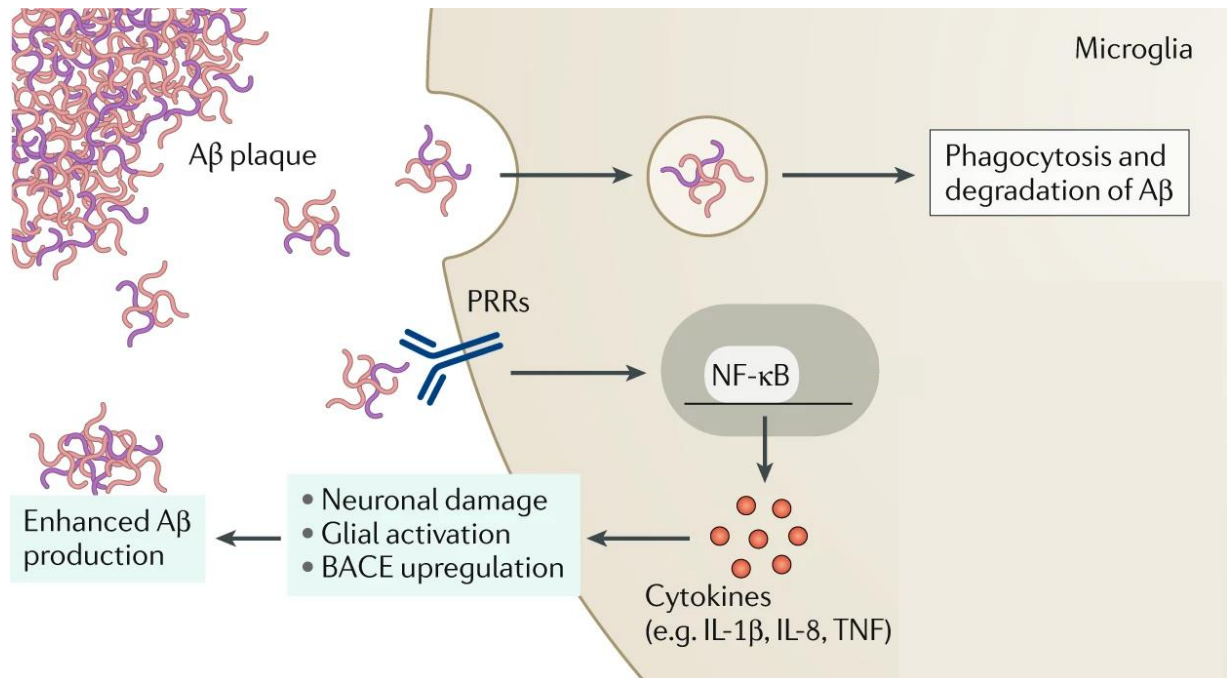




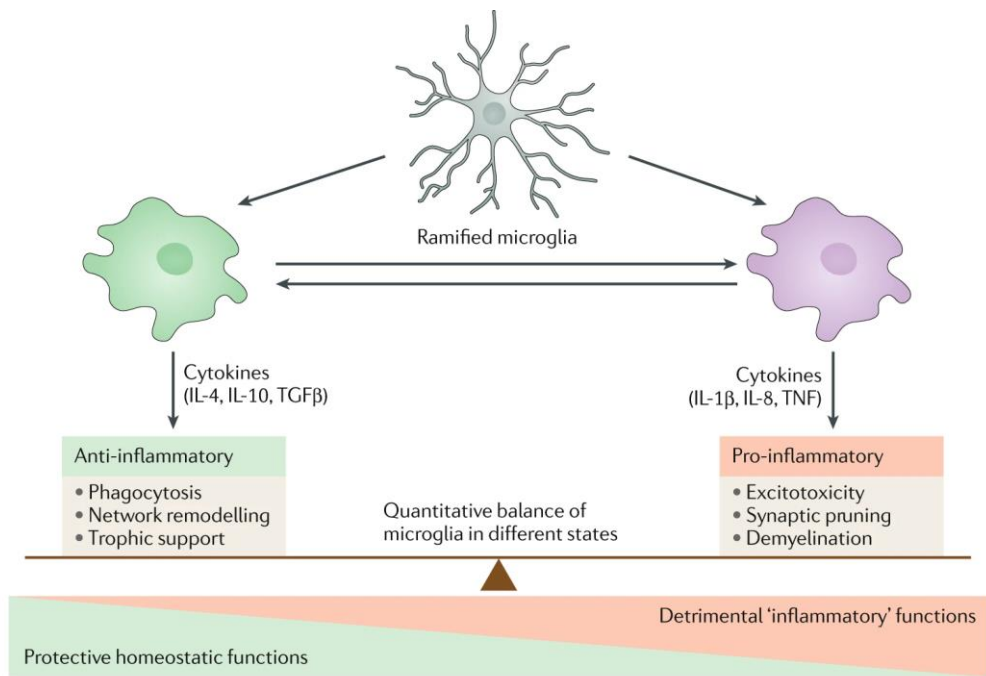
a)



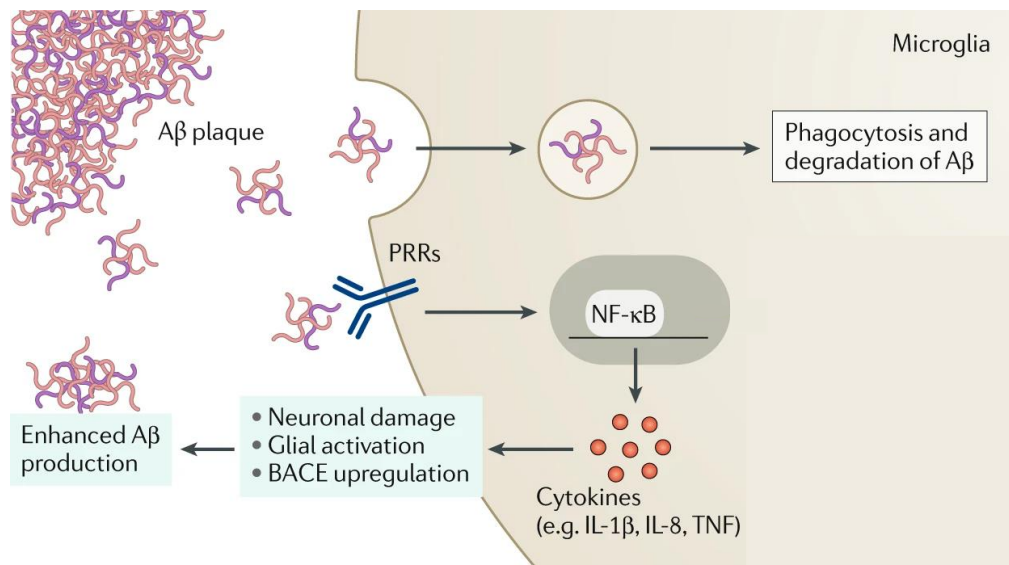
b)



a)



b)



Constitutive Splicing



Alternative Splicing

Skipped Exon (SE)



Mutually Exclusive (MX)



Intron Retention (IR)



Alternative 5' Splice Sites (A5')



Alternative 3' Splice Sites (A3')



Alternative First Exon (AF)



Alternative Last Exon (AL)



Constitutive Splicing



Alternative Splicing

Skipped Exon (SE)



Mutually Exclusive (MX)



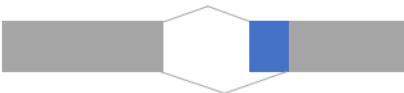
Intron Retention (IR)



Alternative 5' Splice Sites (A5')



Alternative 3' Splice Sites (A3')

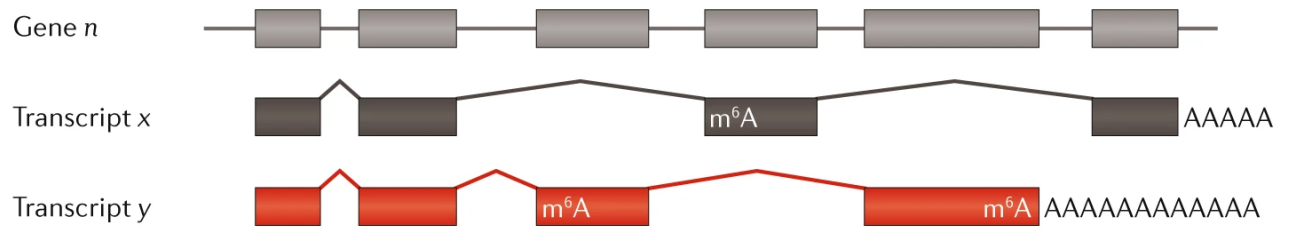


Alternative First Exon (AF)



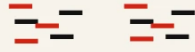
Alternative Last Exon (AL)





Short-read cDNA

Ambiguous to exon



Unambiguous to exon

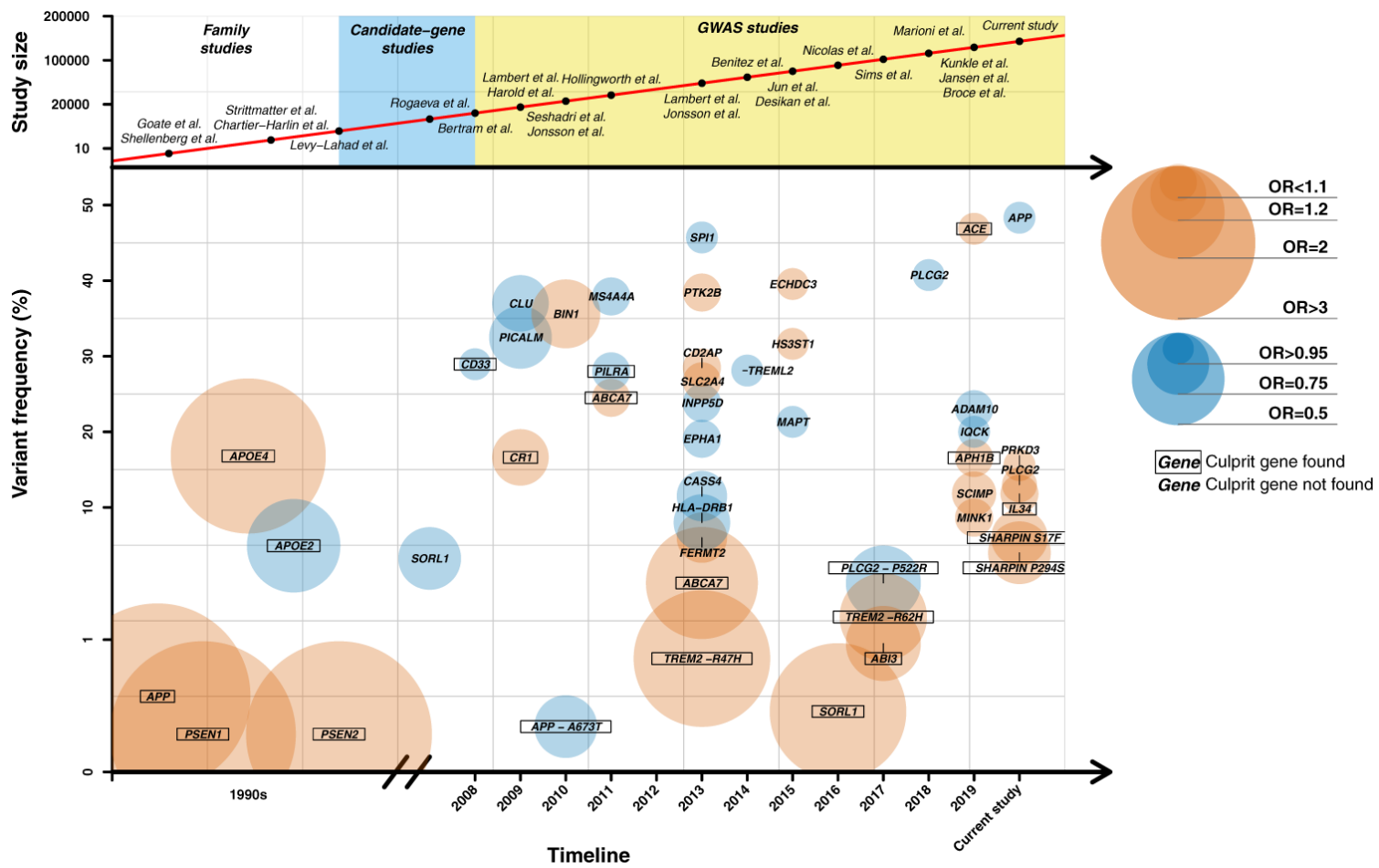


Ambiguous to isoform



Unambiguous to isoform





Flowcell

- Cycle 1
- Cycle 2
- Cycle 3
- Cycle n

A diagram of a DNA double helix. The sugar-phosphate backbones are represented by grey circles. The nitrogenous bases are represented by colored circles: yellow for Guanine (G), red for Adenine (A), blue for Thymine (T), and green for Cytosine (C). A mutation is highlighted with a yellow starburst at the base pair where a red Adenine (A) is paired with a blue Thymine (T) instead of the original Cytosine (C) and Guanine (G) pair.

The diagram illustrates a protein channel embedded in a lipid bilayer. A red polypeptide chain is shown passing through the channel. The chain is represented by a red wavy line, with 'AAAAAAA' and 'TTTTTTT' labels indicating specific regions. The channel is composed of blue and grey subunits. The lipid bilayer is shown as a grey wavy line.

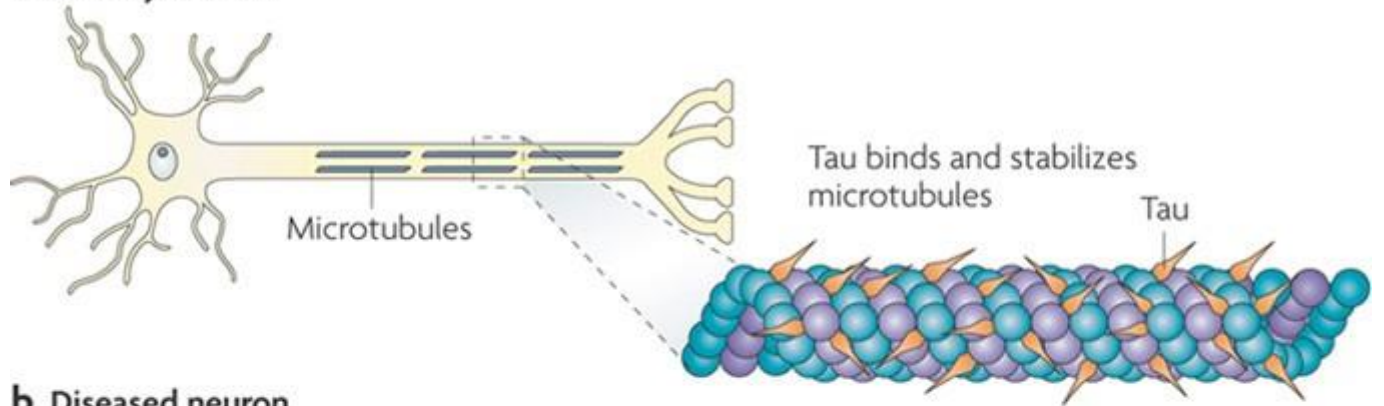
Gene n

A schematic diagram of a protein structure represented as a red bar. The bar has several peaks of varying heights. Two specific regions are highlighted with red boxes and labeled 'm⁶A'. The first 'm⁶A' is located under a medium peak, and the second 'm⁶A' is located under a larger peak. To the right of the second 'm⁶A' label, the text 'AAAAAAAAAAAA' is written.

Unambiguous
to isoform

Unambiguous
to isoform

a Healthy neuron



b Diseased neuron

