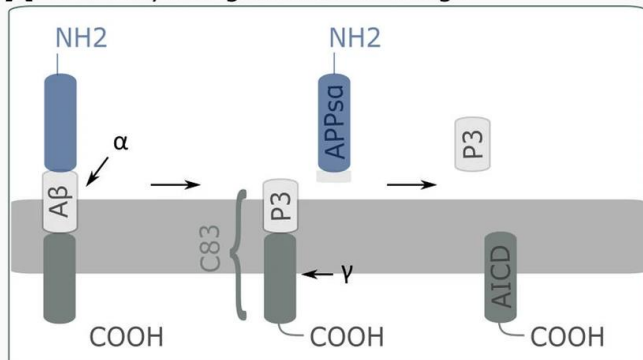
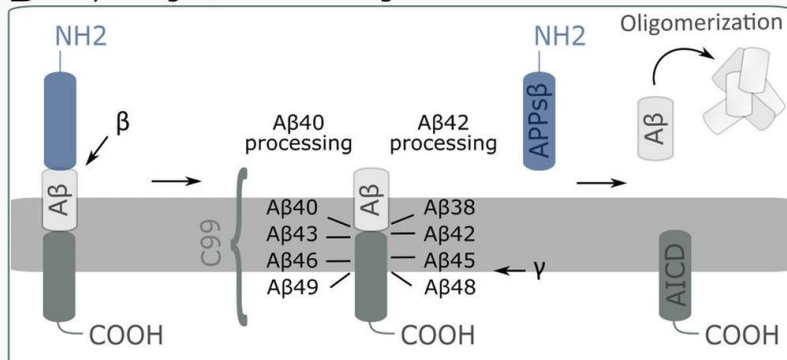
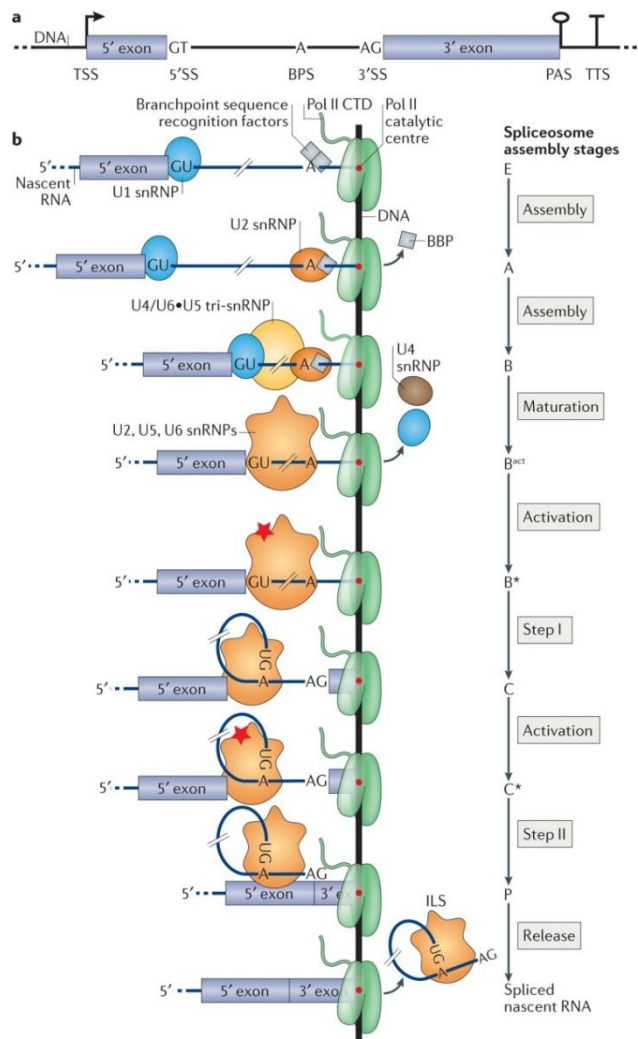


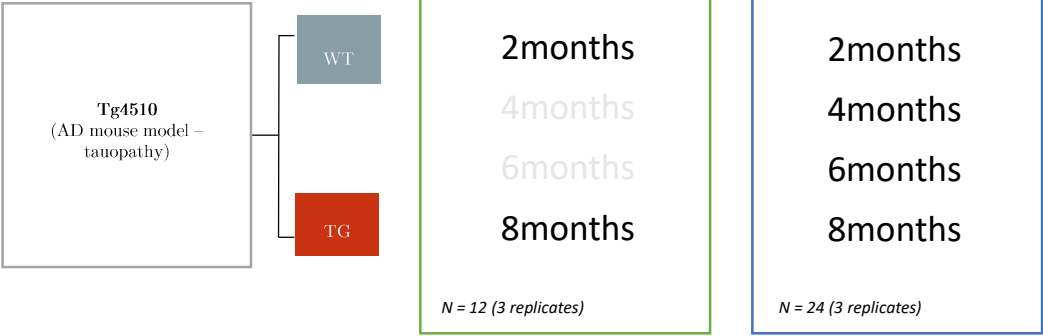
A Non-amyloidogenic APP cleavage

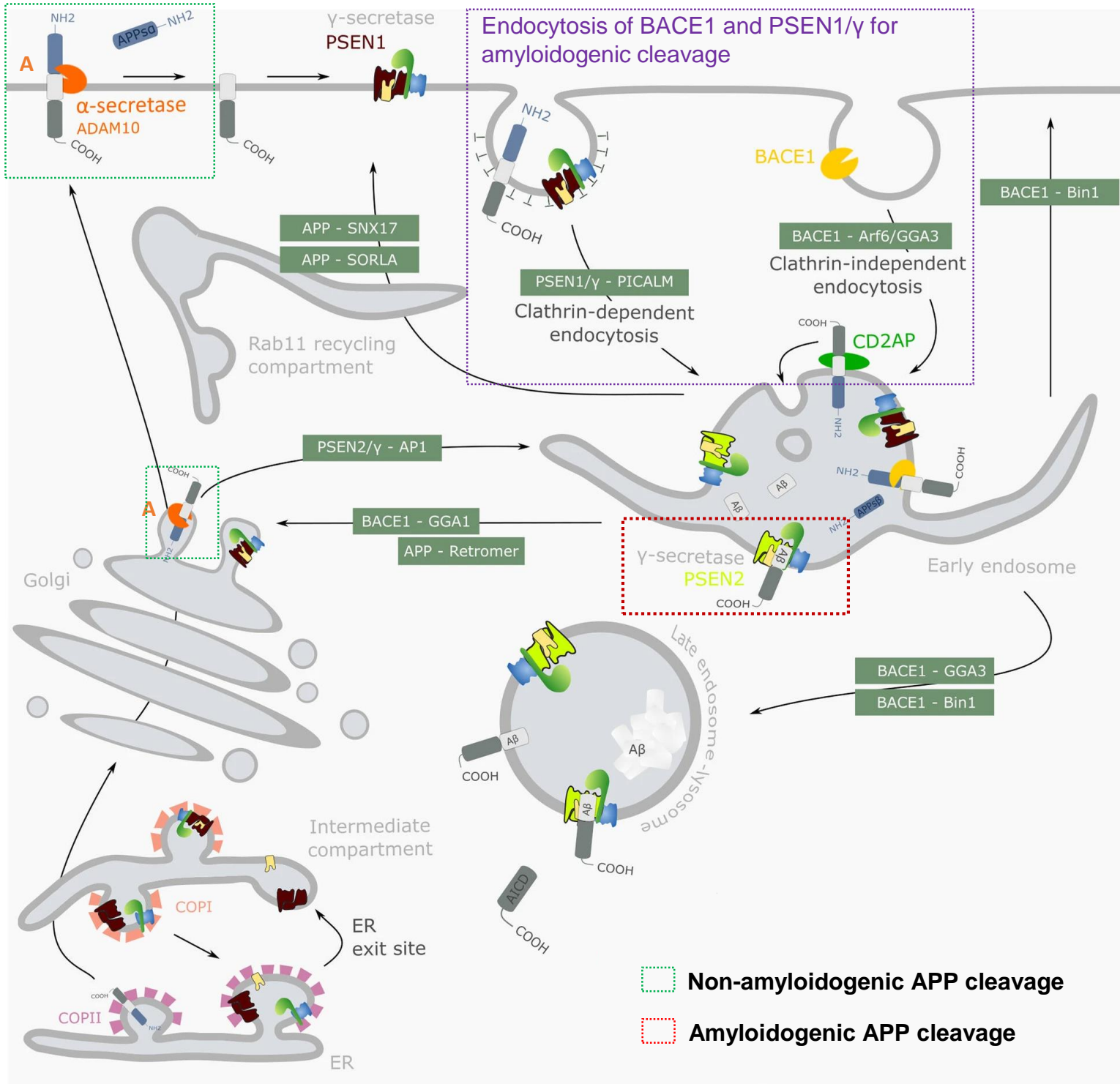


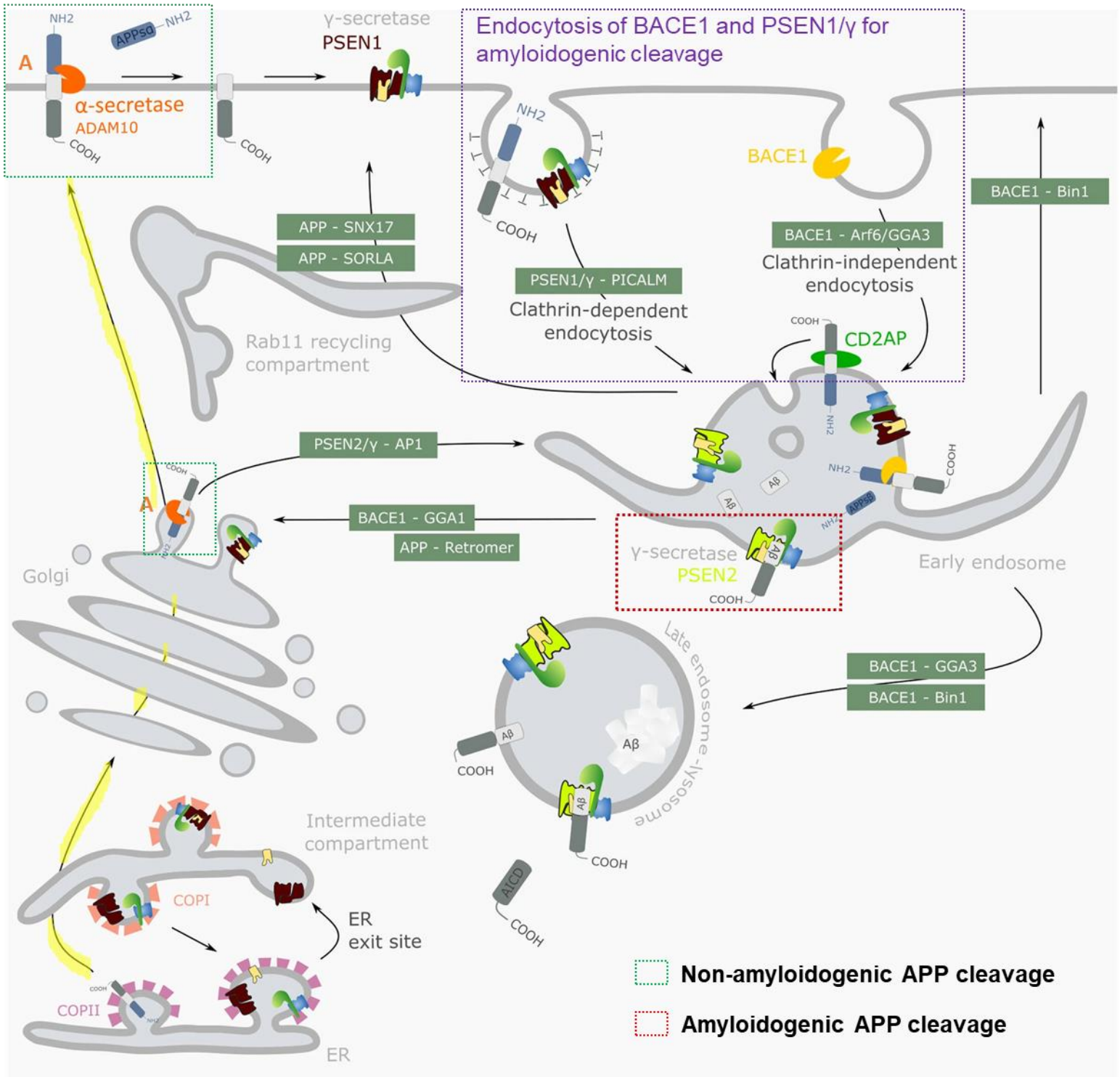
B Amyloidogenic APP cleavage



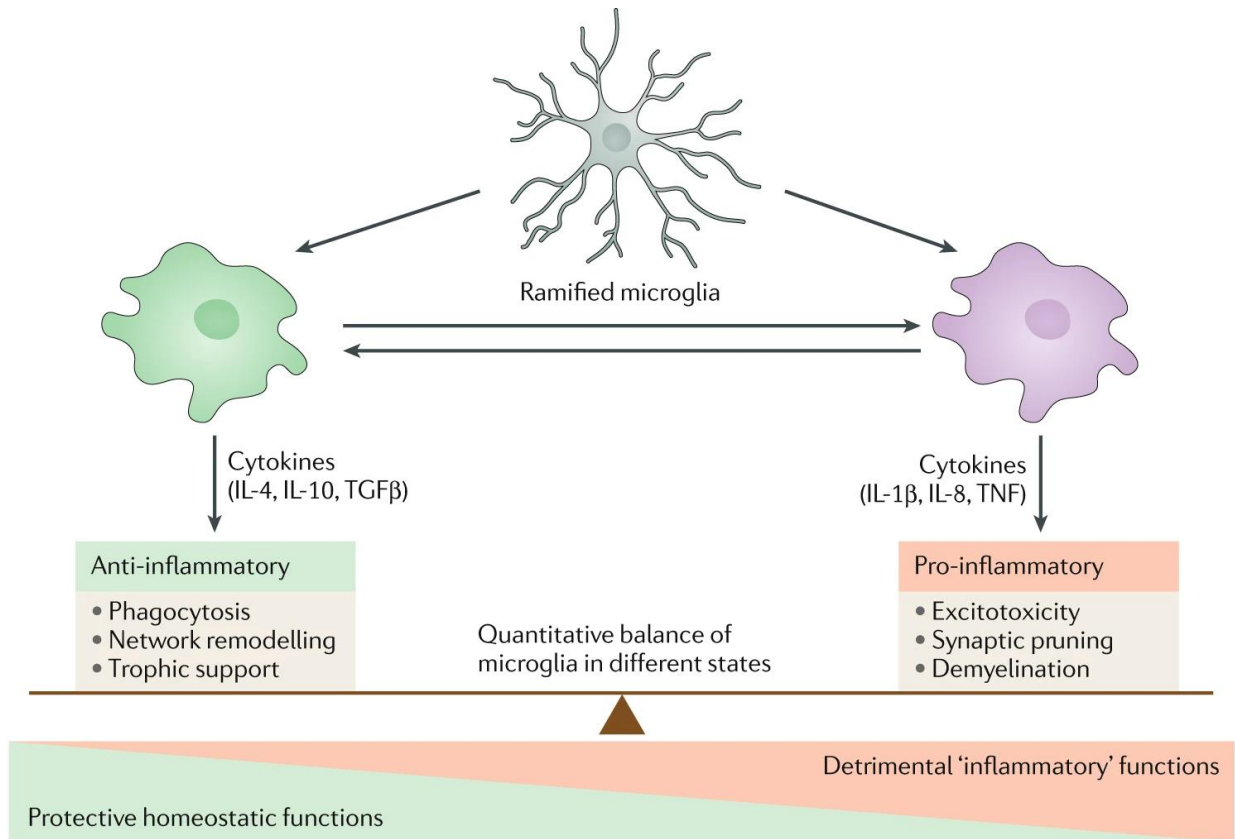




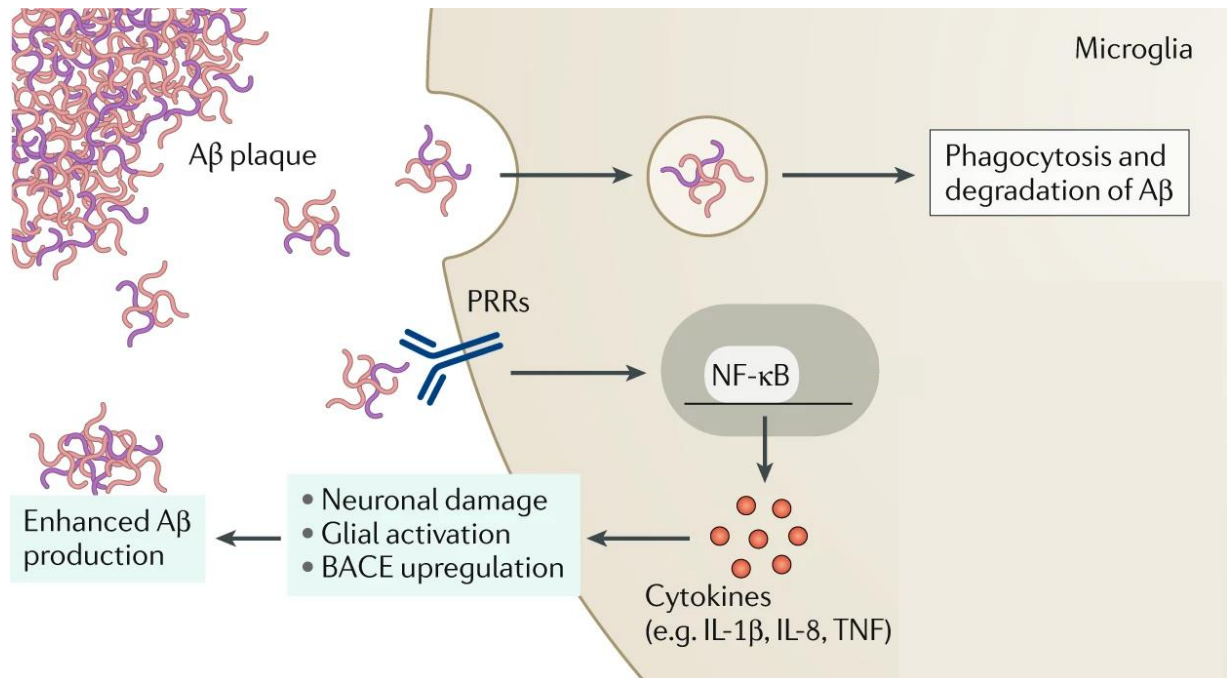




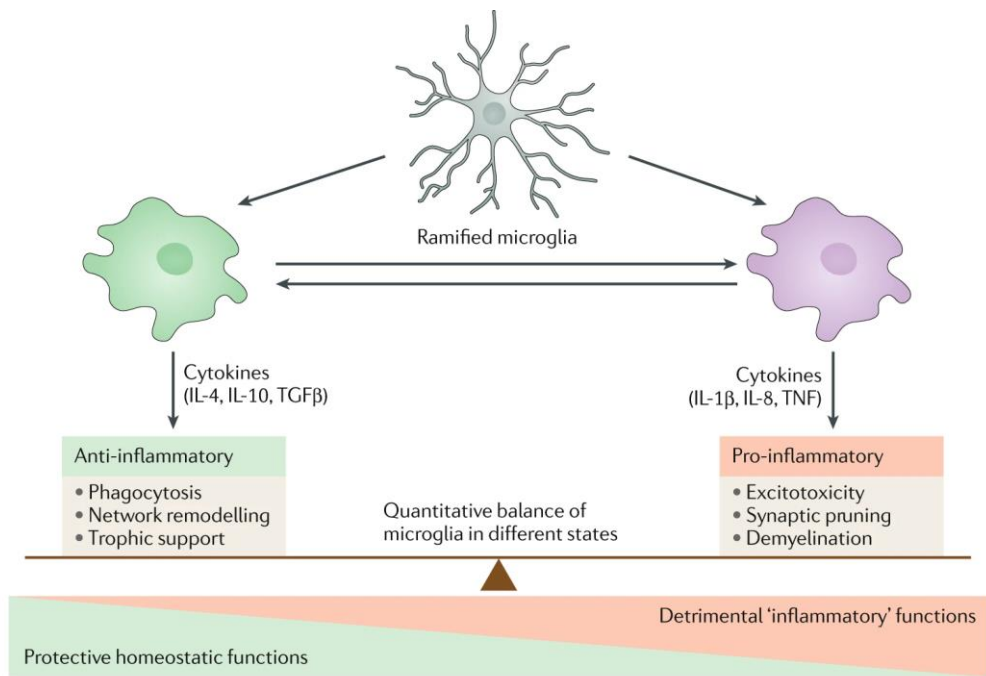
a)



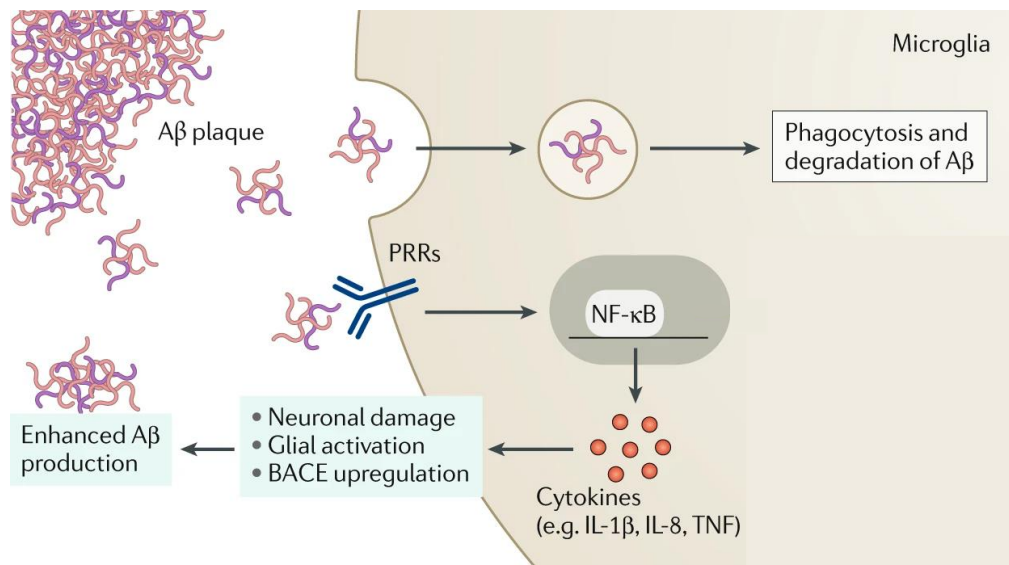
b)



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')

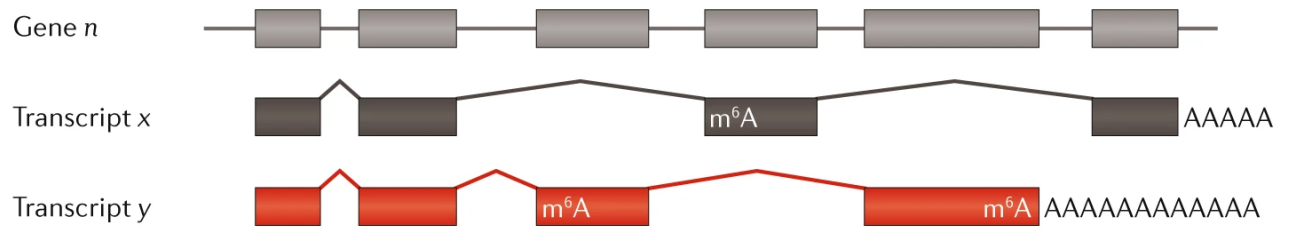


Alternative First Exon (AF)



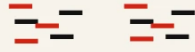
Alternative Last Exon (AL)





Short-read cDNA

Ambiguous to exon



Unambiguous to exon

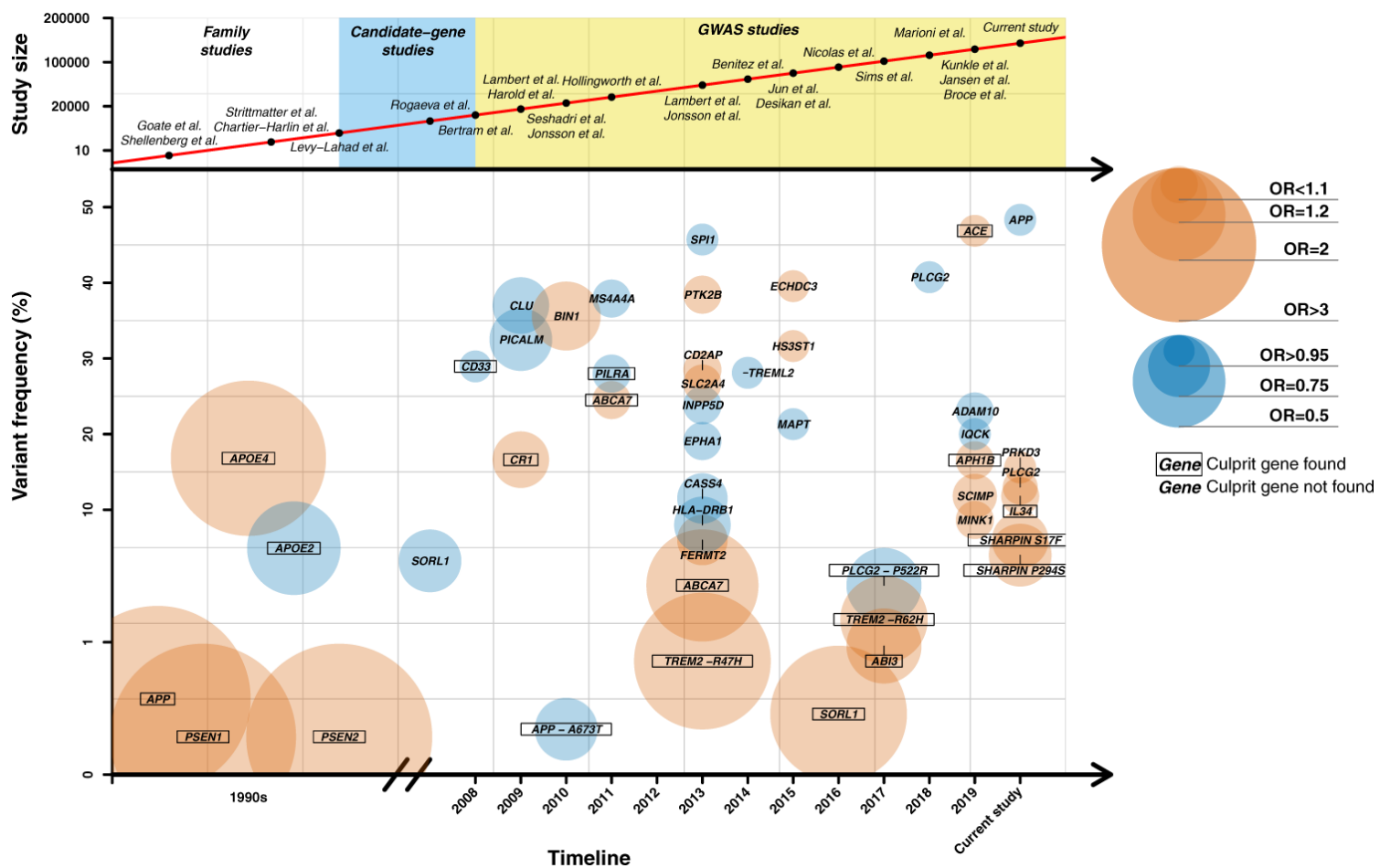


Ambiguous to isoform



Unambiguous to isoform



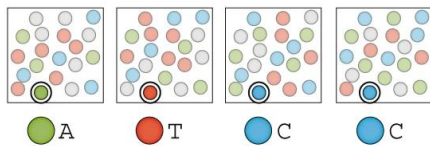
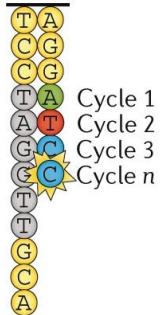


a)



Illumina

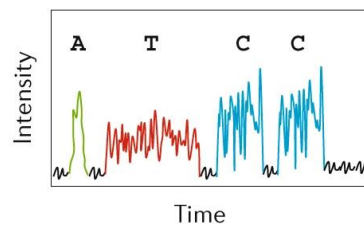
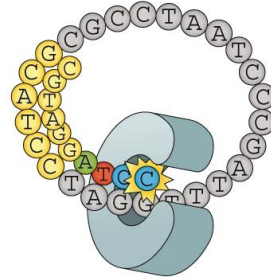
Flowcell



b)



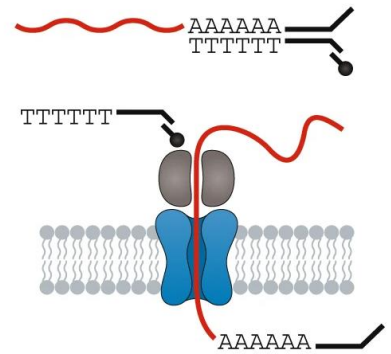
Pacific Biosciences



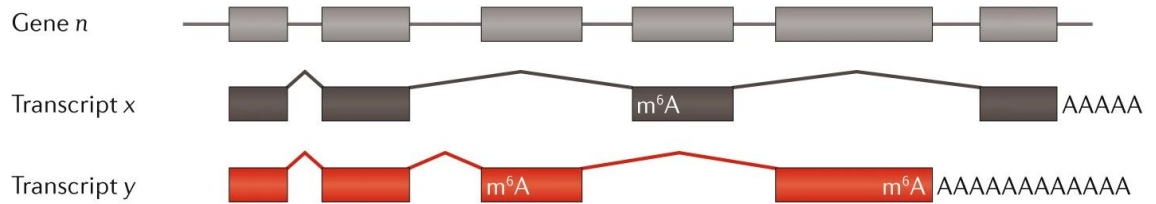
c)



Oxford Nanopore

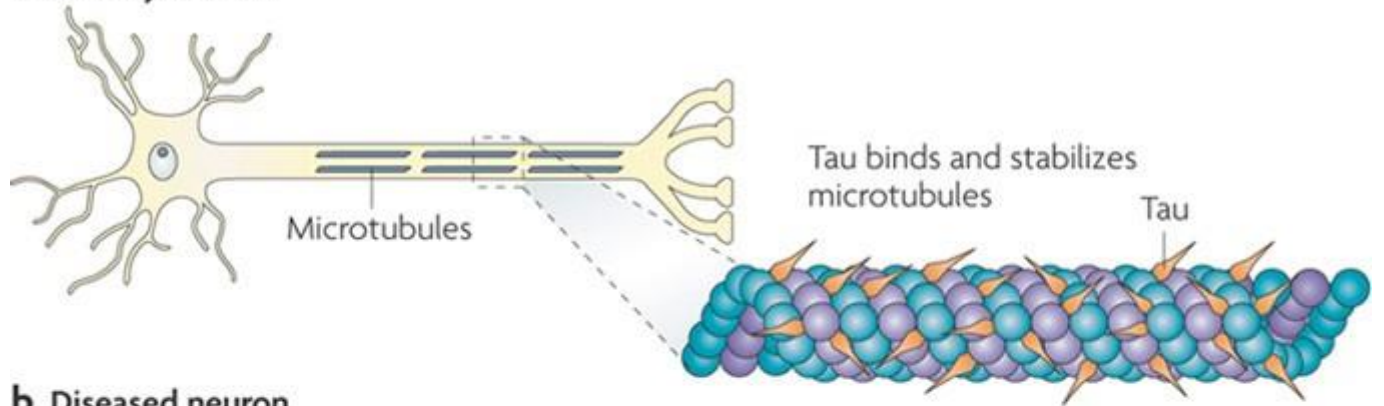


d)



Long-read cDNA	Unambiguous to isoform	
Direct RNA-Seq	Unambiguous to isoform	

a Healthy neuron



b Diseased neuron

