

People

Professor



Lab manager



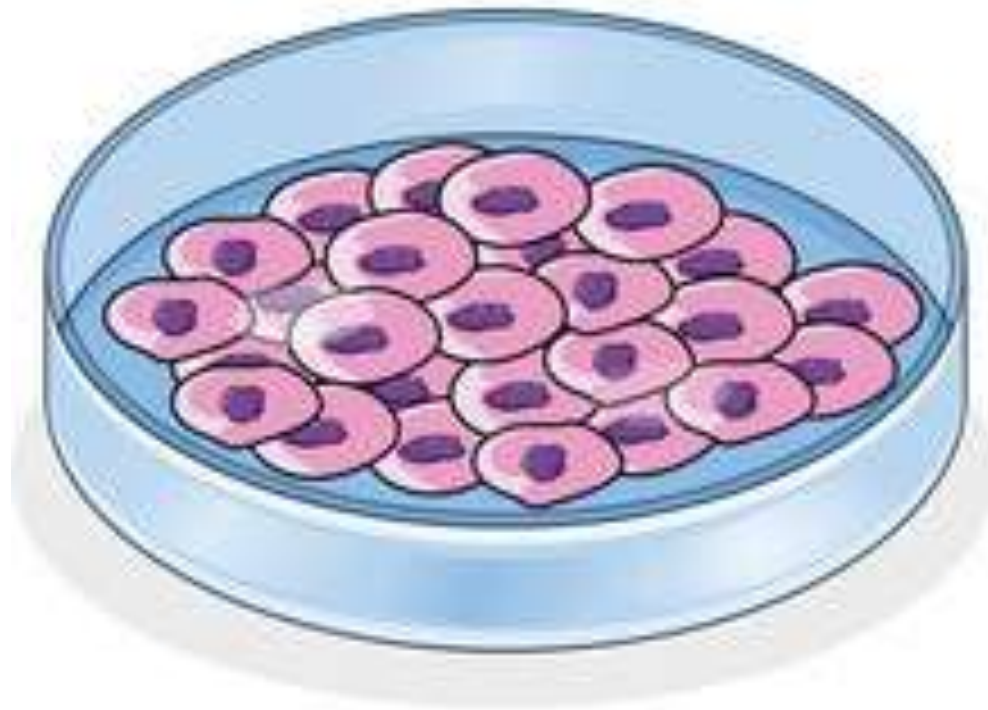
Postdocs



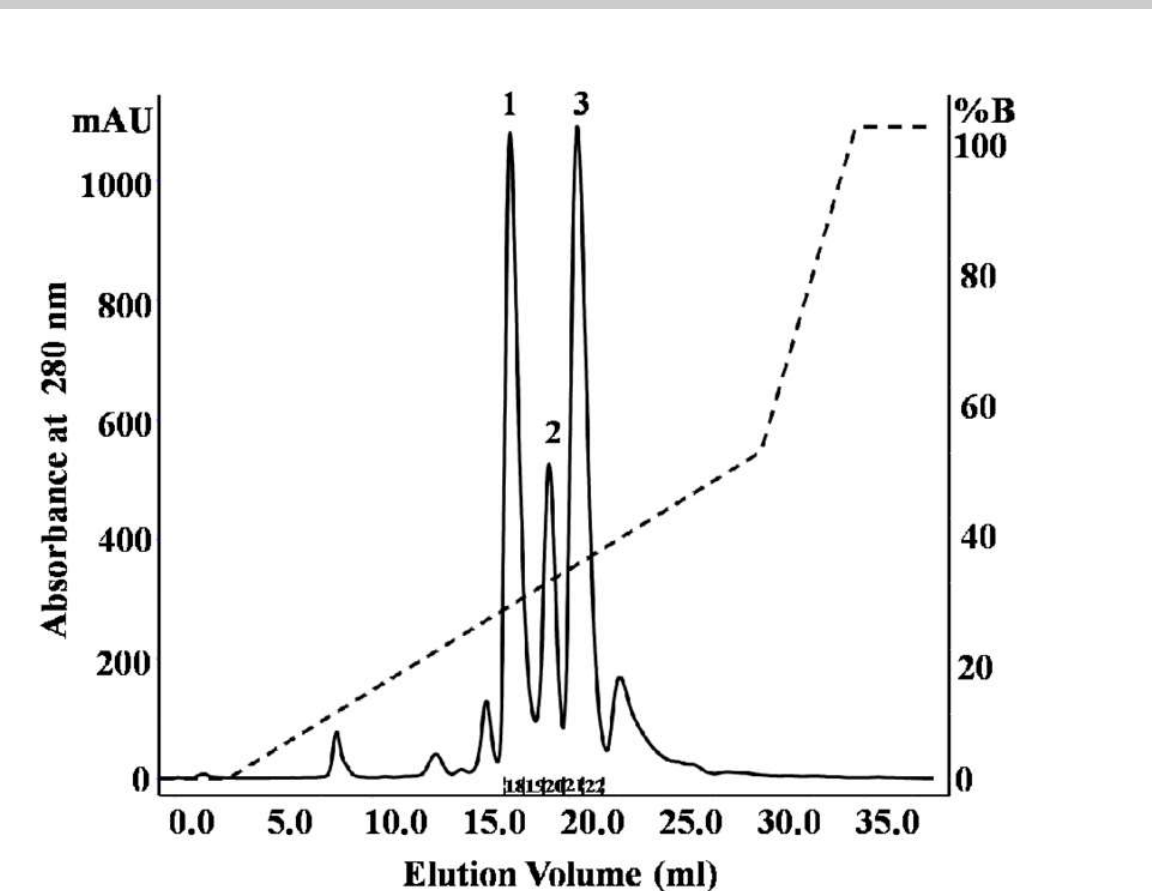
PhD students



Methods



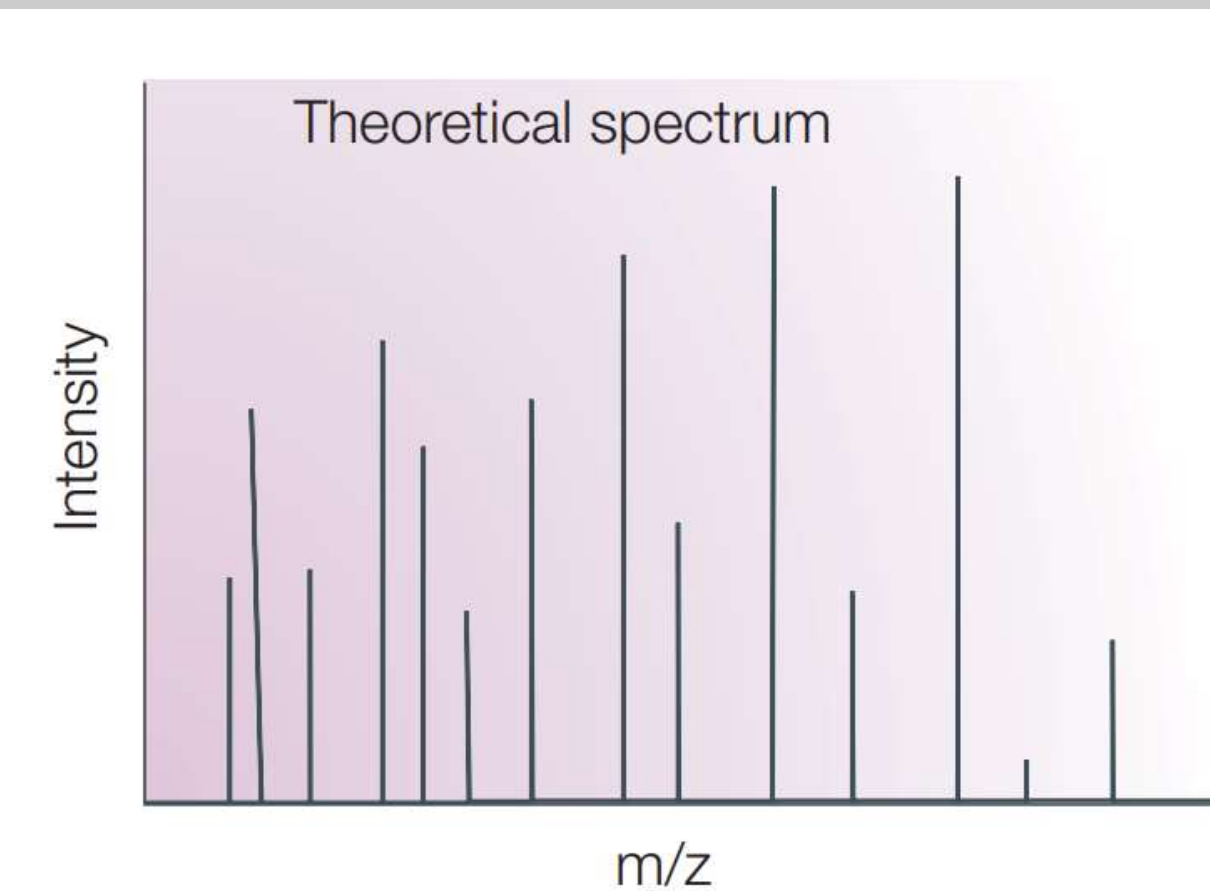
Cell culture



Protein purification (FPLC)



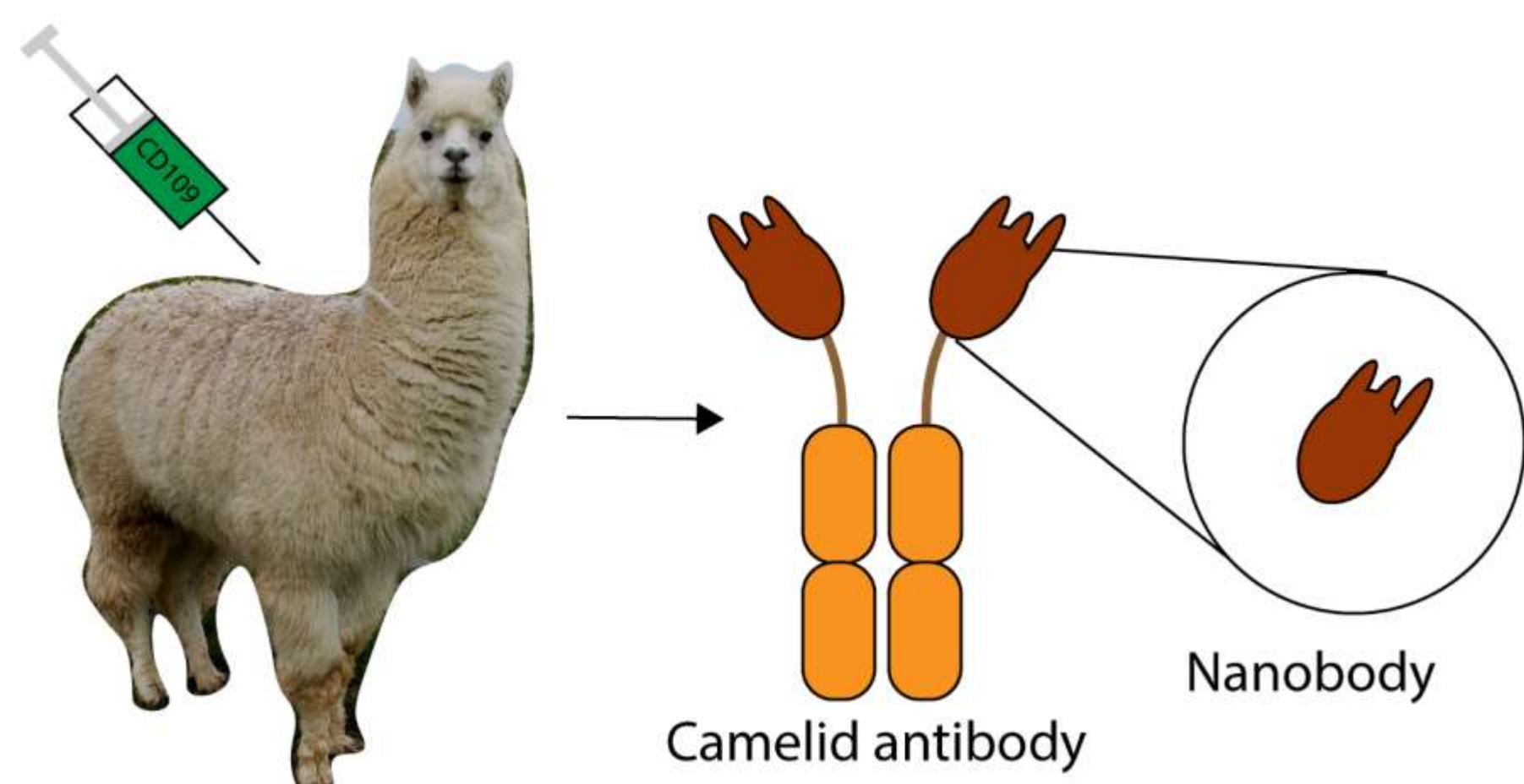
Classic biochemistry
(SDS-PAGE, Western blots, etc.,)



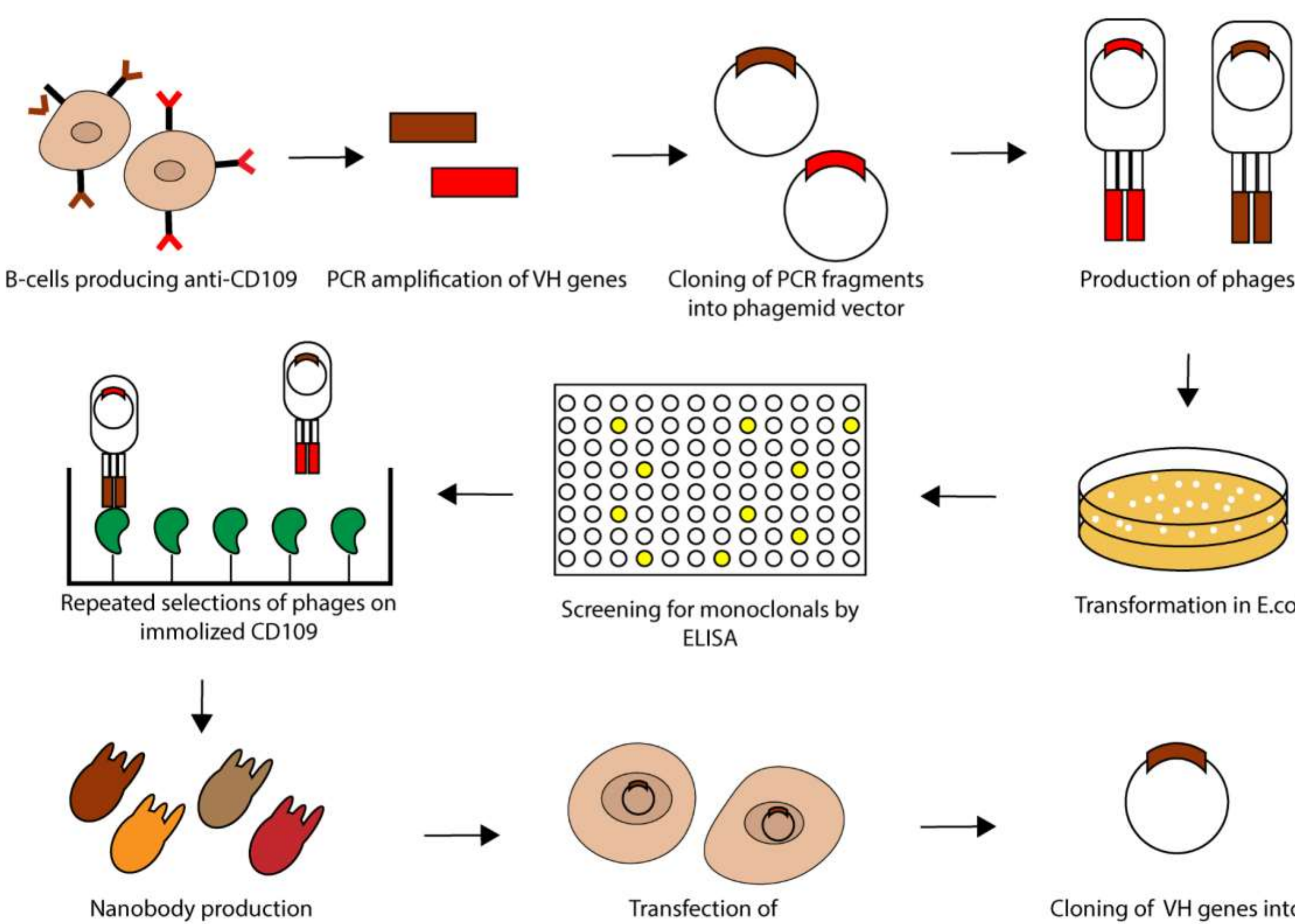
Mass spectrometry

Producing CD109-specific nanobodies for glioblastoma therapy

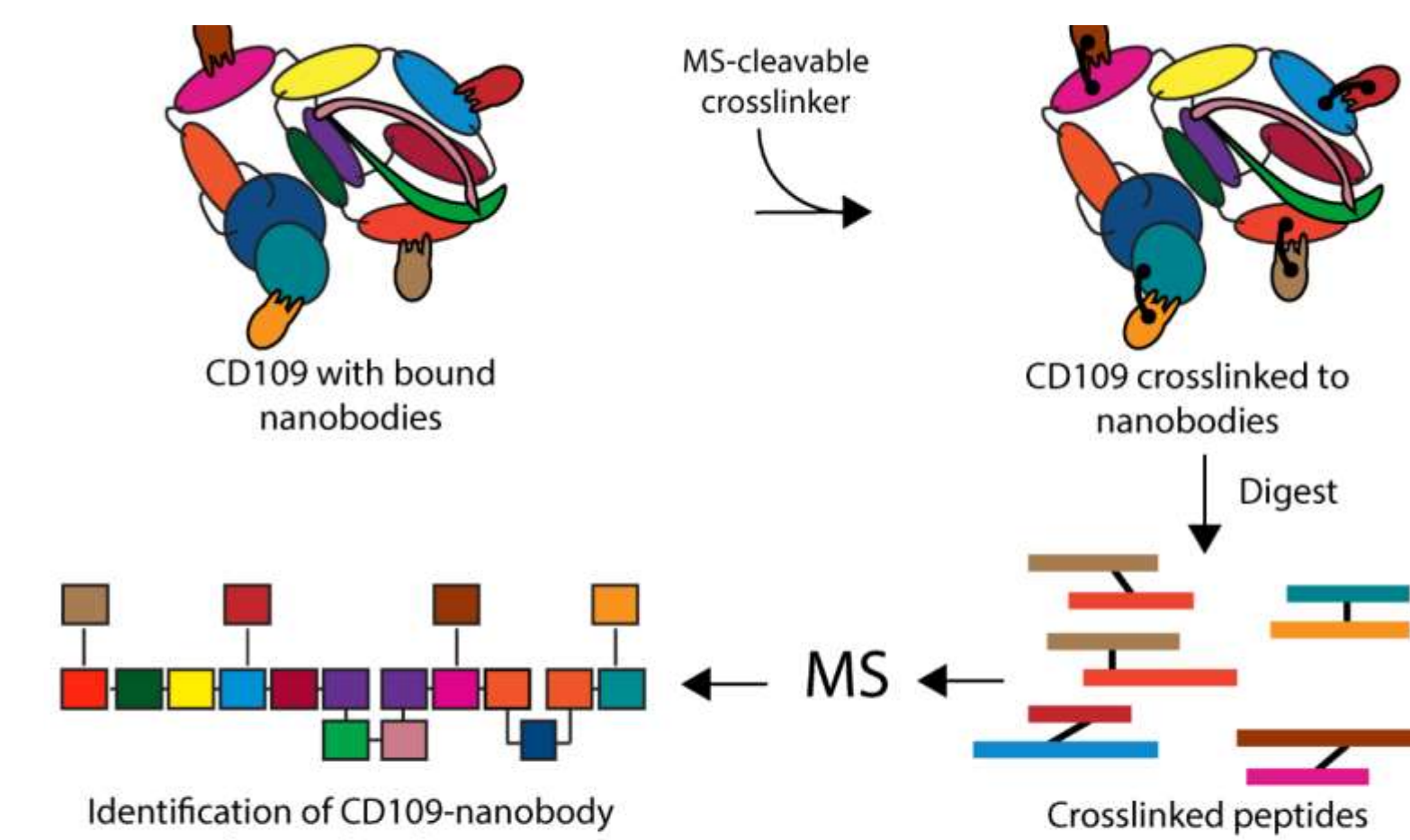
Immunization of llama to produce nanobodies



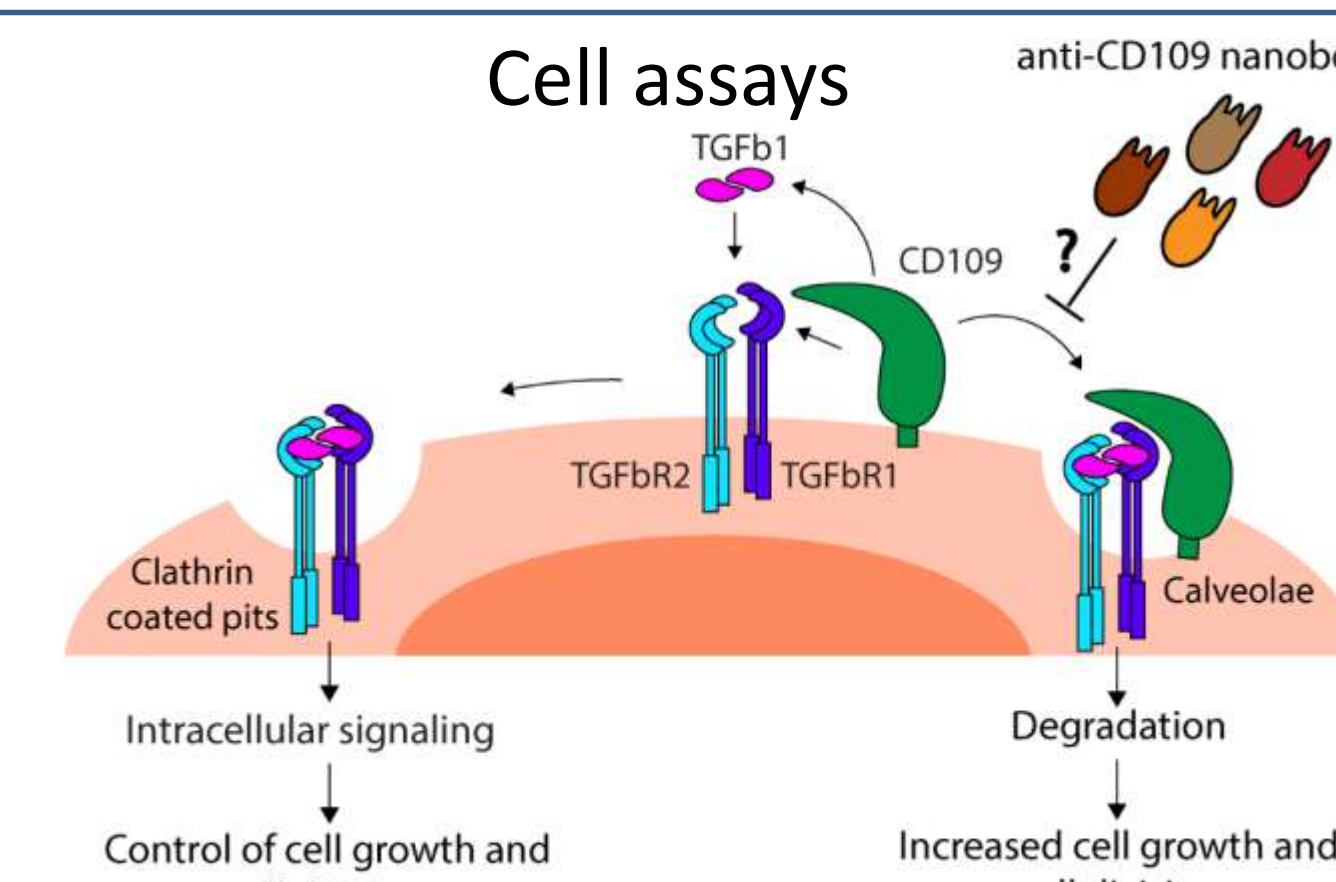
Selection of nanobodies



Characterization of nanobodies

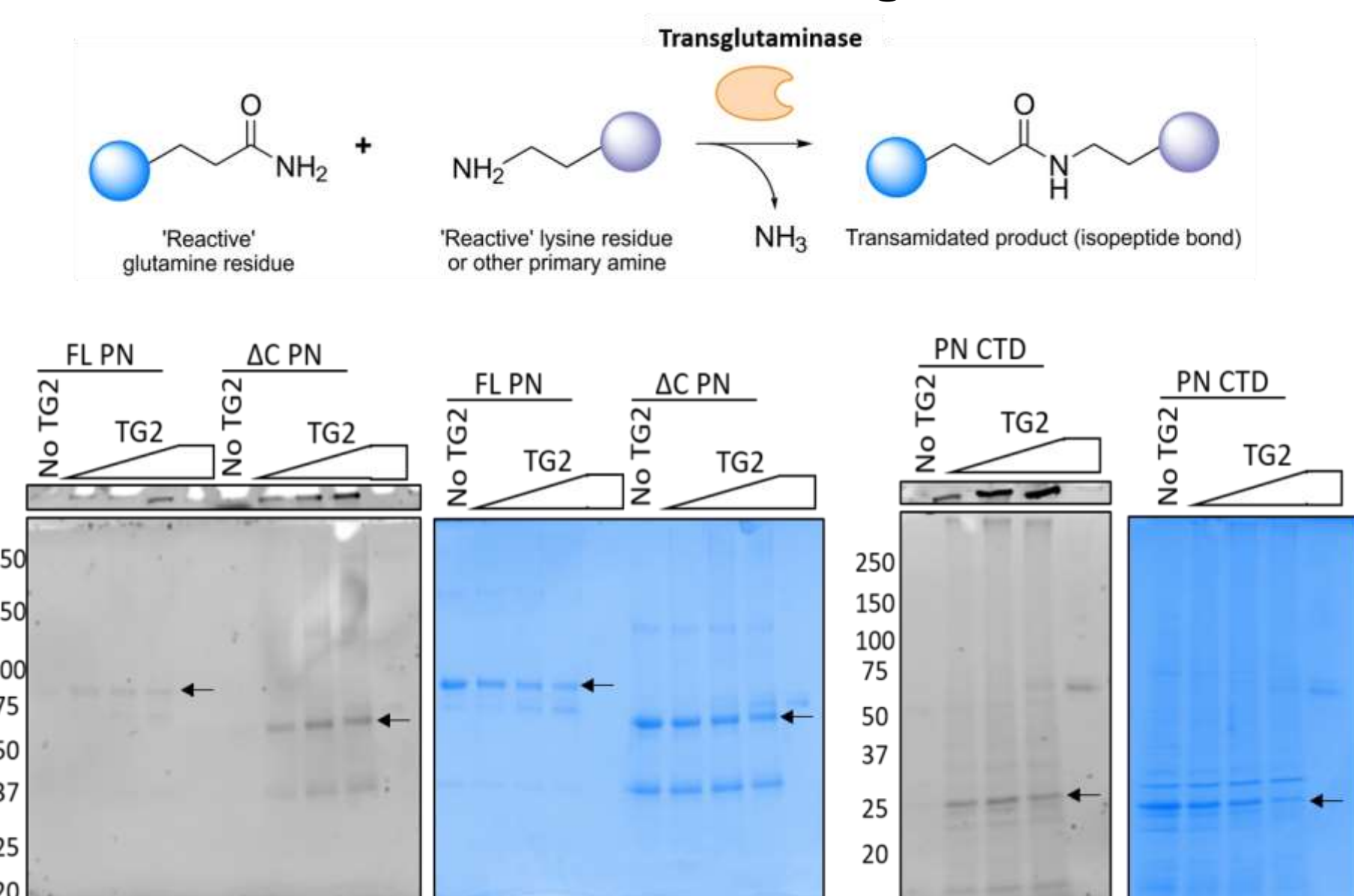


Cell assays

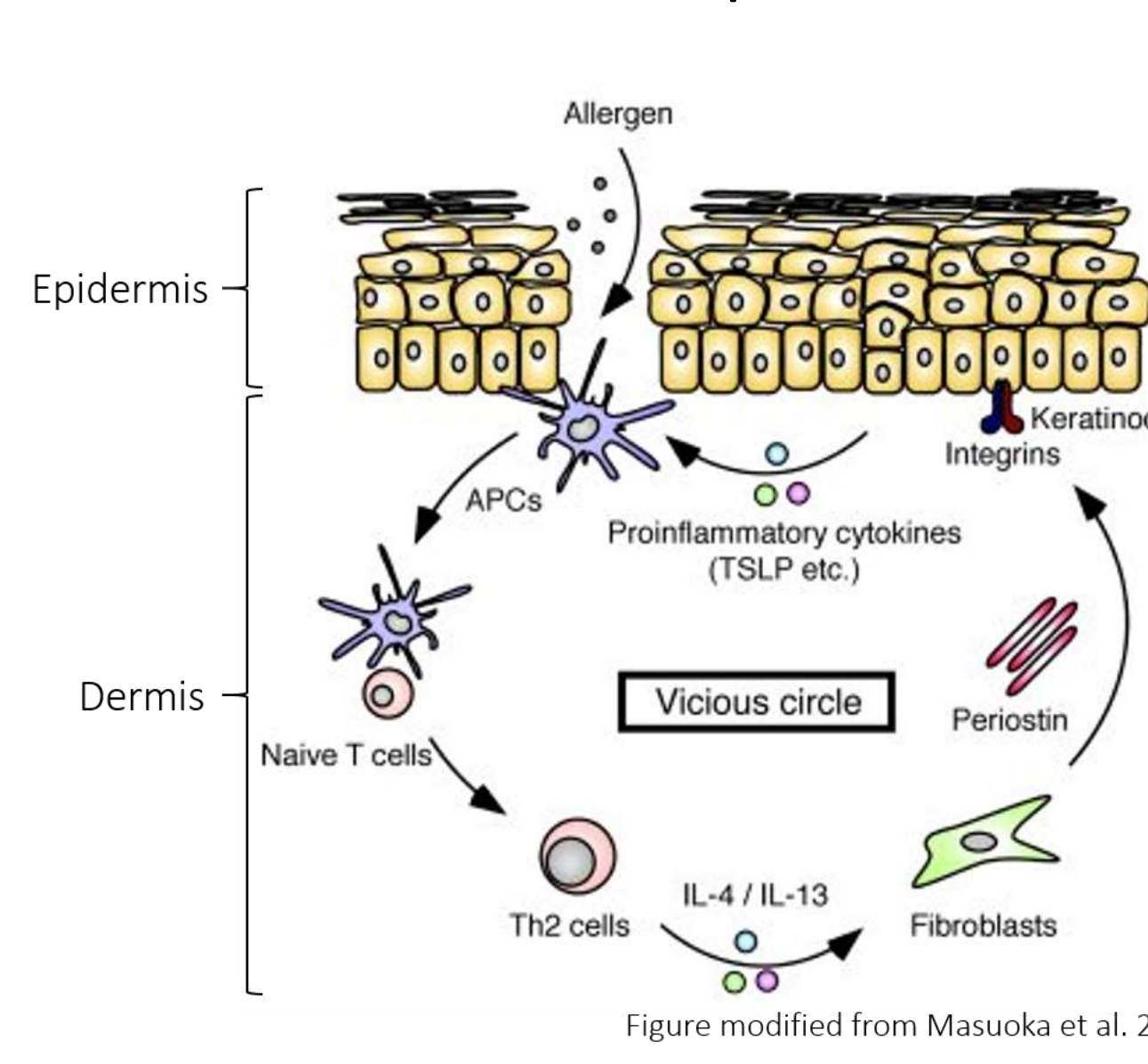


Understanding the role of periostin in atopic dermatitis

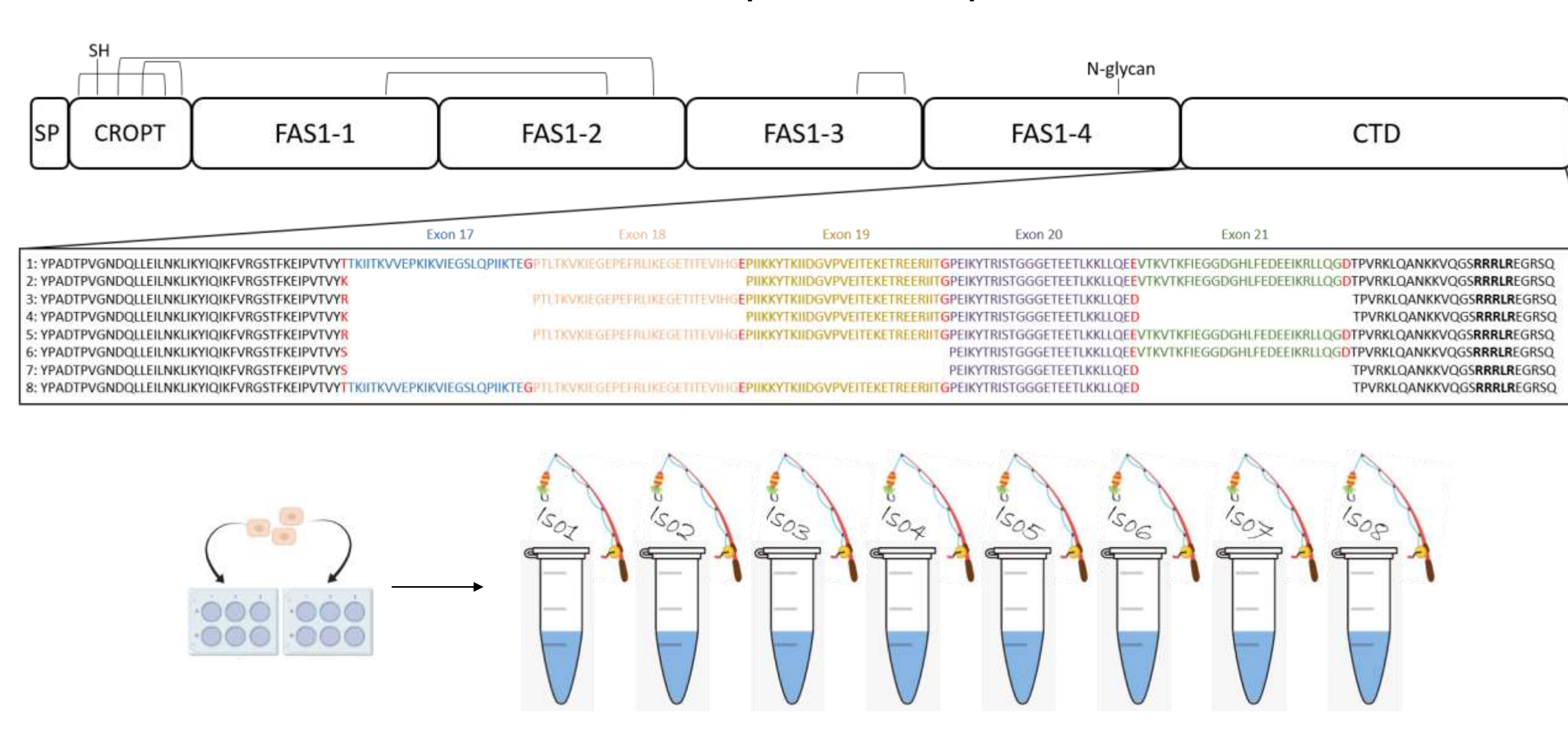
Periostin as substrate for transglutaminases



Inflammation in atopic dermatitis

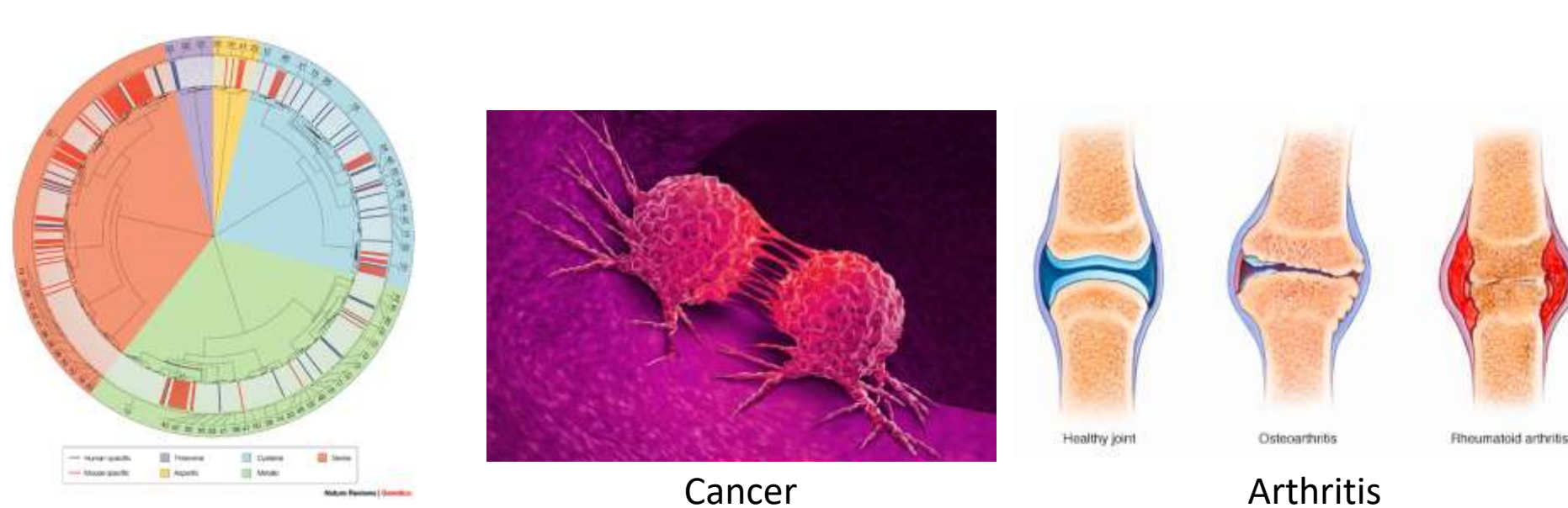


Difference between periostin splice isoforms

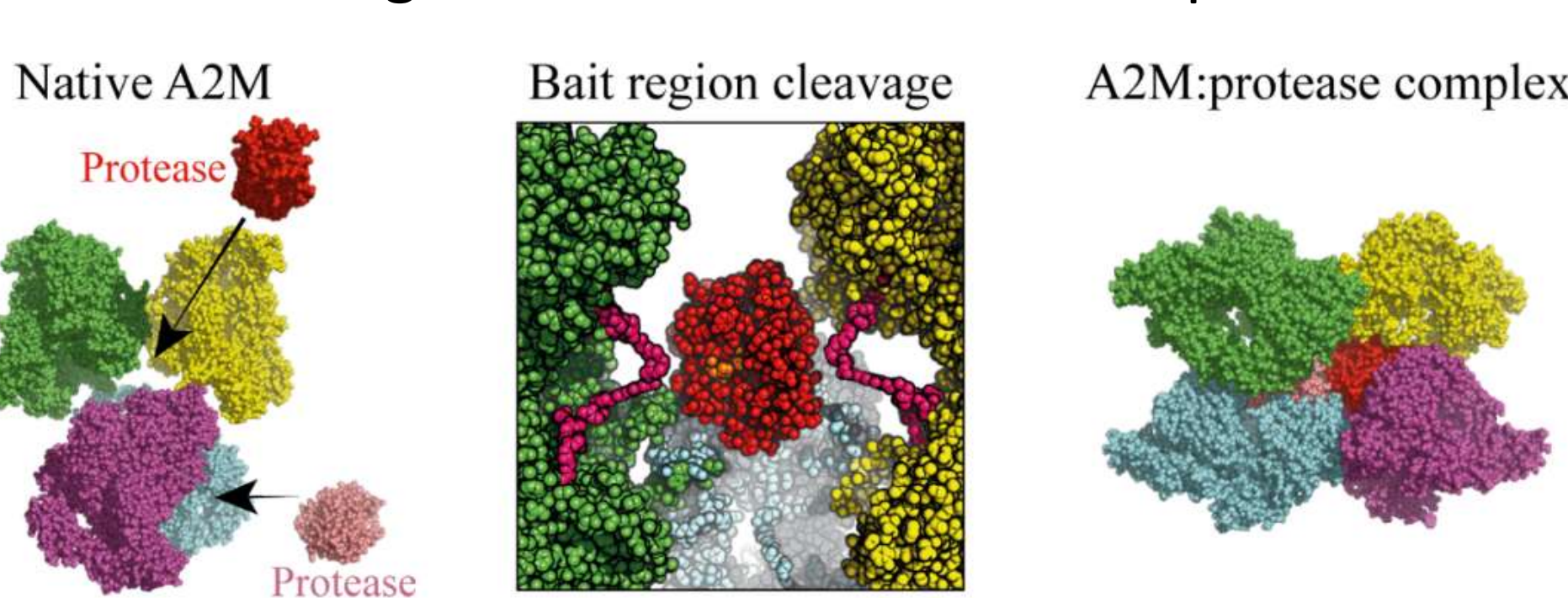


Making a protease-detecting biosensor

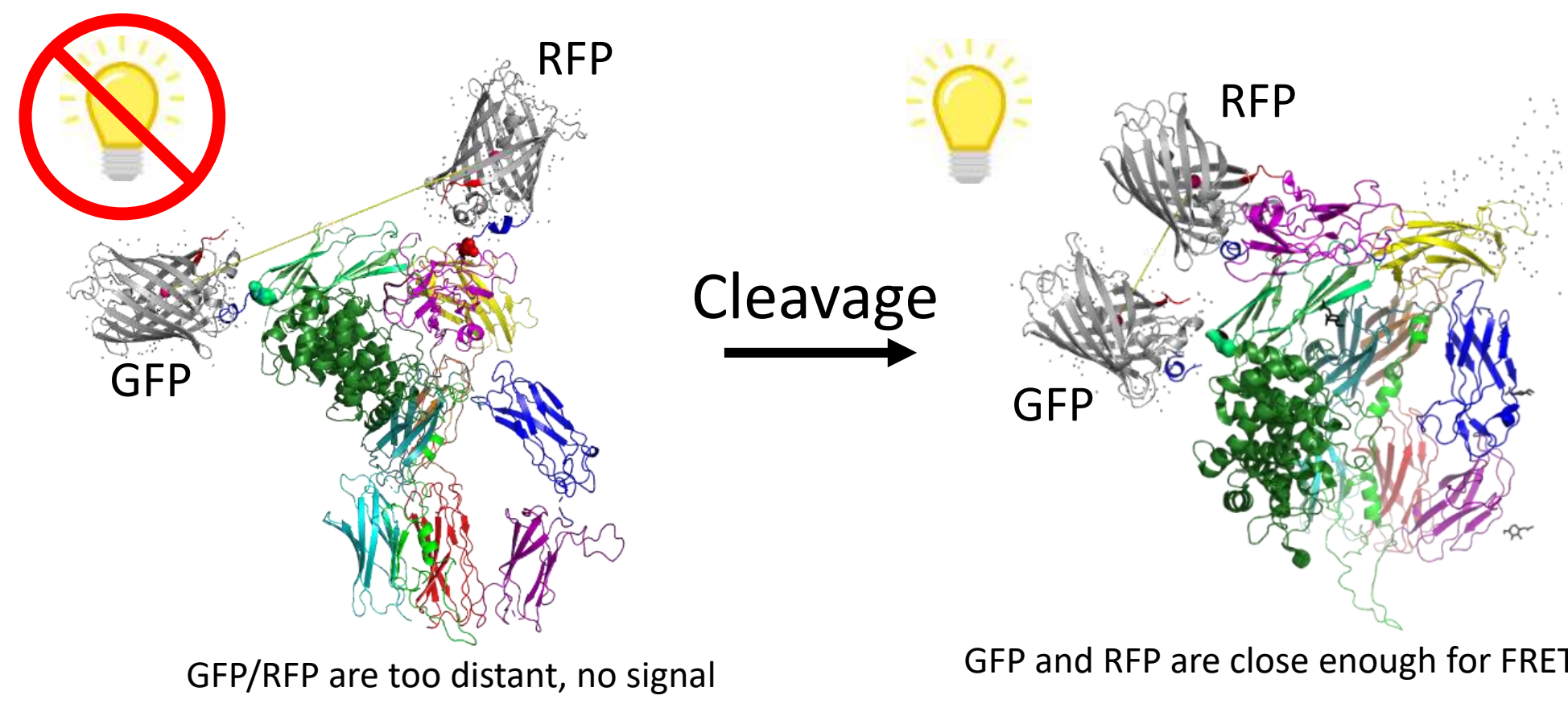
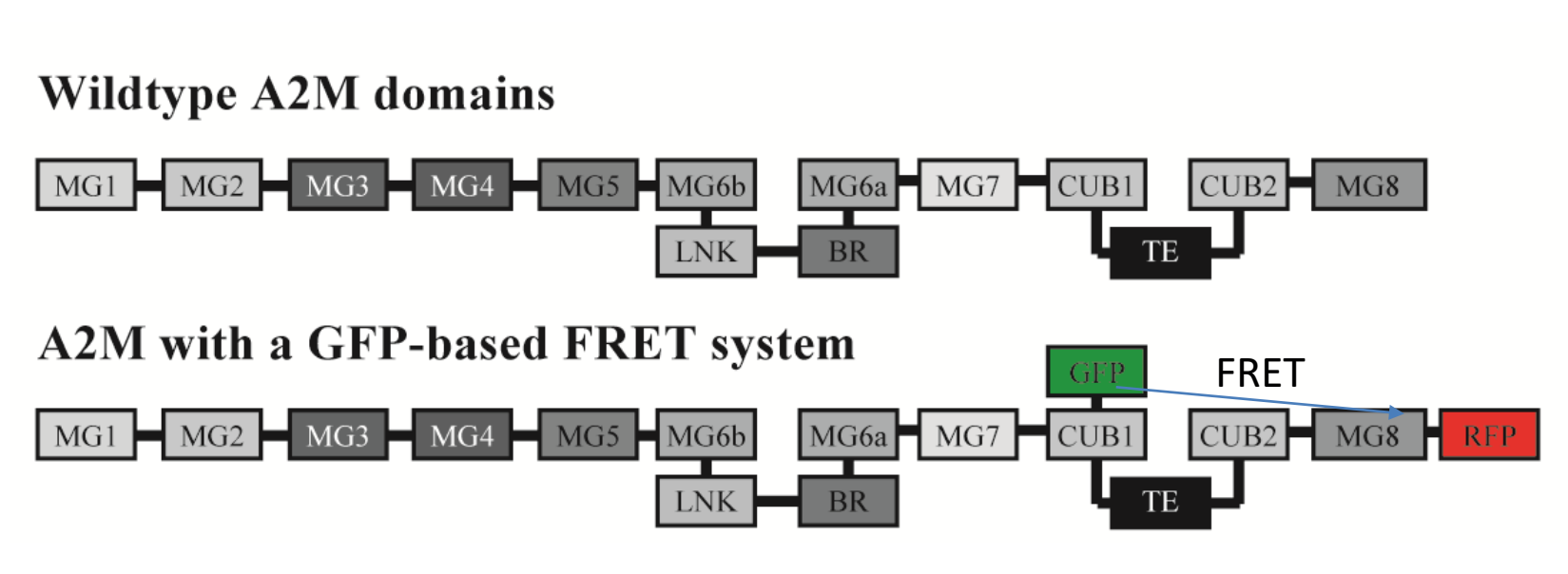
Proteases can provide disease “fingerprints”



Proteases change the conformation of the protein A2M



Reporting A2M's conformation change by FRET



Designing A2M protease inhibitors for therapeutic use



Identifying disease-relevant proteases by A2M “fishing”

