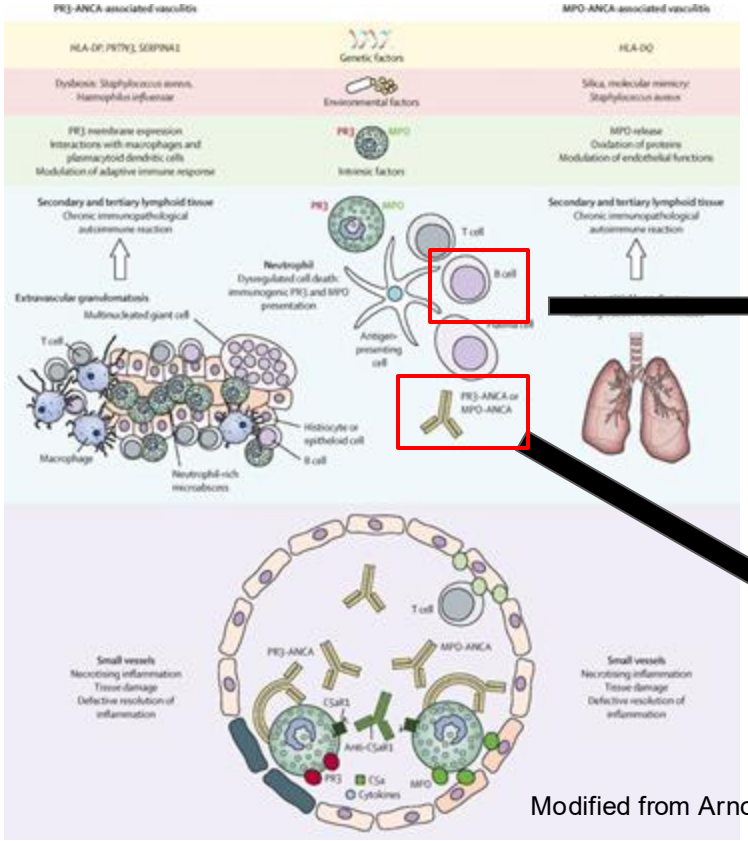
LBAI
Lymphocytes B, Autoimmunité et Immunothérapies - UMR 1227

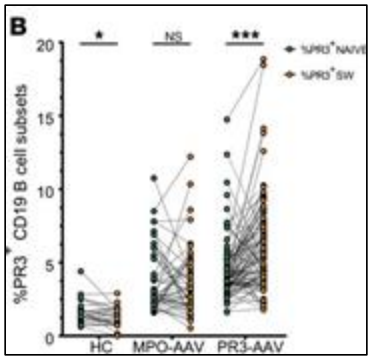
Antigen presenting role of B cells in PR3-AAV

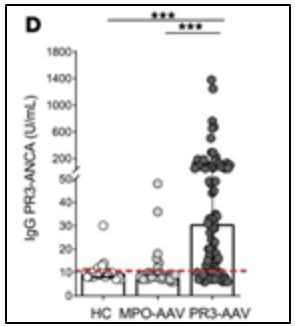
Saloni Patel

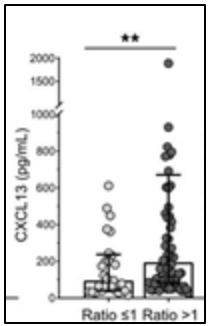
Université de Bretagne Occidentale

Breach of peripheral tolerance in PR3-AAV patients







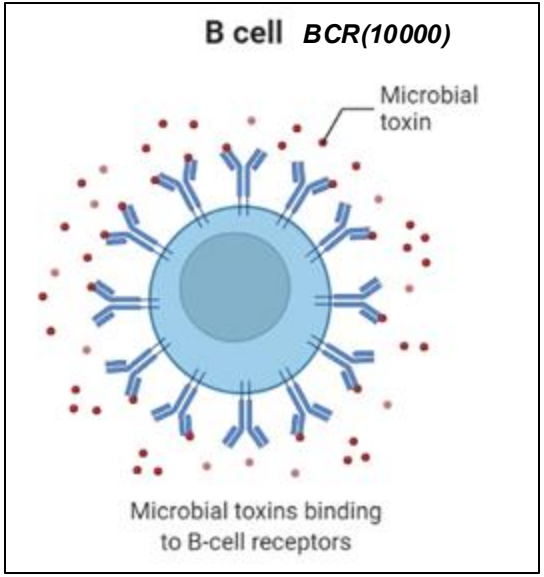


Modified from Arnold *et al.*, 2024

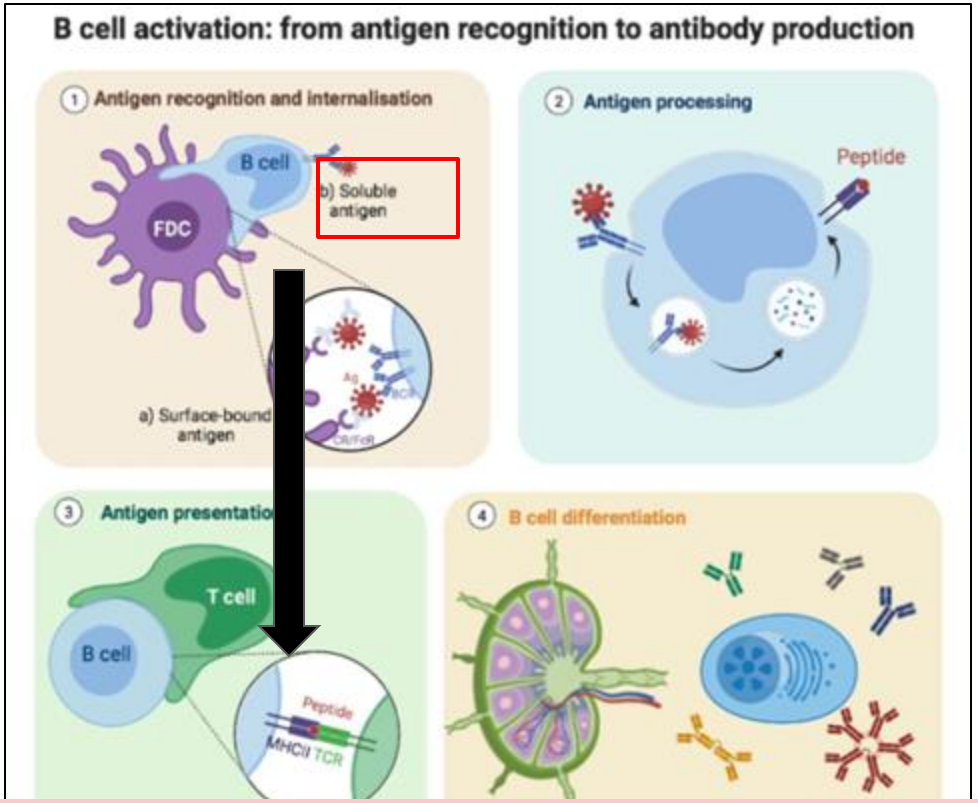
Berti et al., 2021

Why PR3-specific B cells in PR3-AAV produce pathogenic ANCA and not in healthy individuals ?

B cells as antigen presenting cells

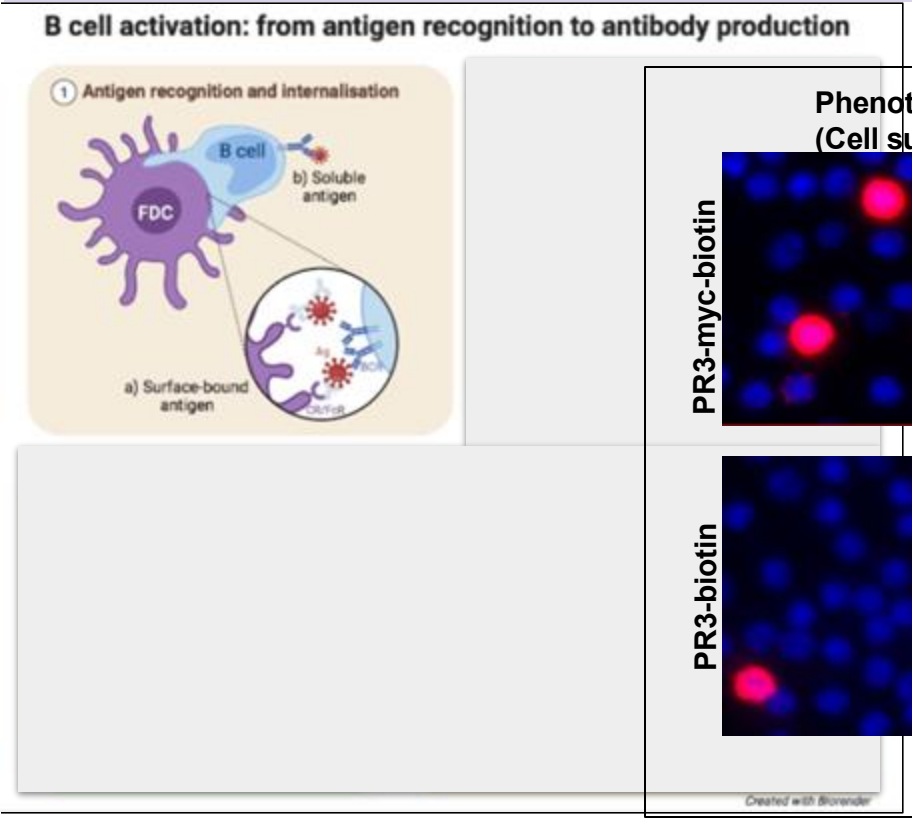


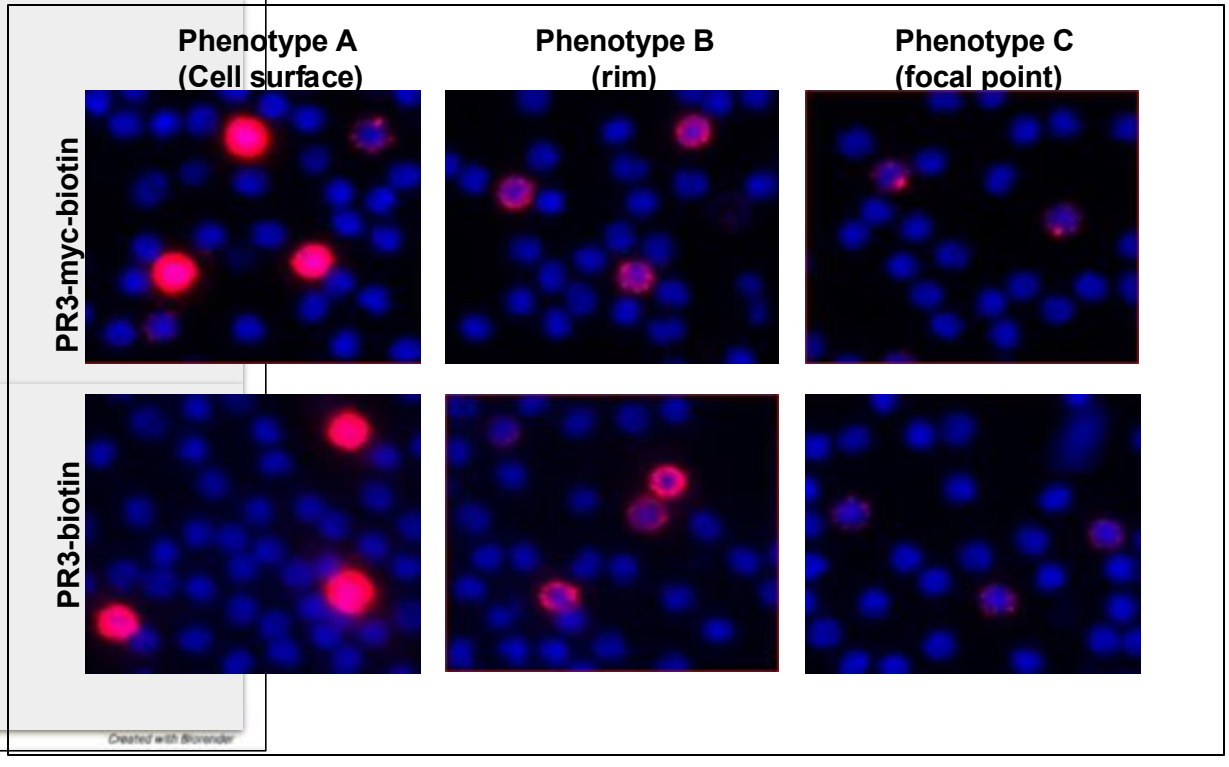
Autoimmune disease - autoantigen initially may be available at low amounts



B cells present antigen to T cells in PR3-AAV to produce ANCA ??

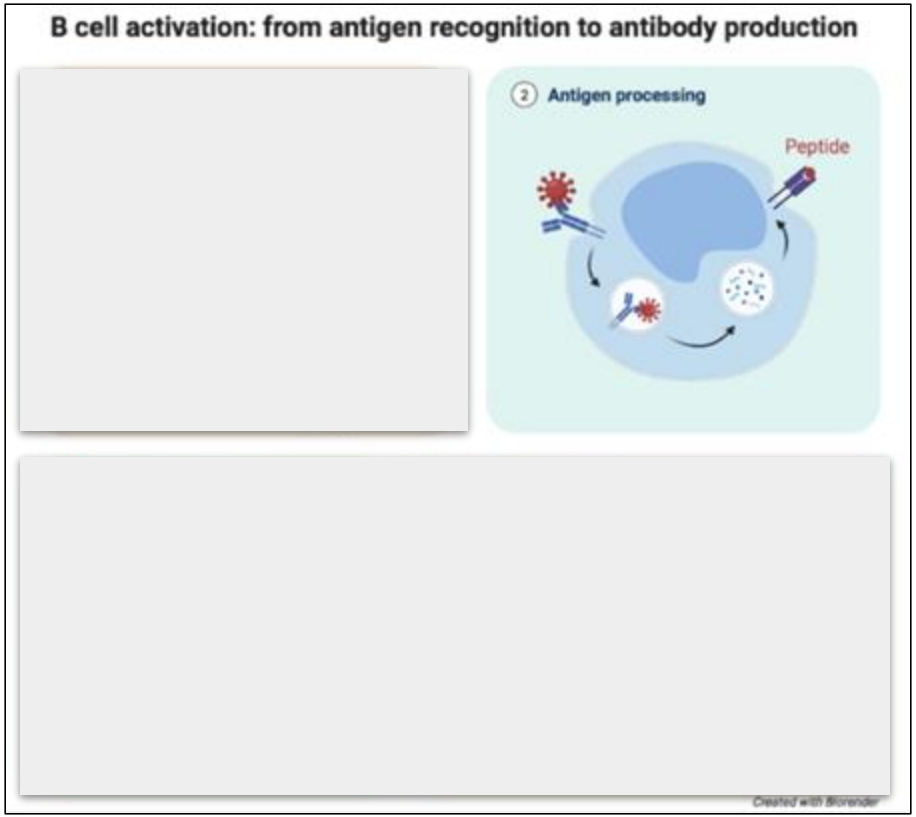
Antigen recognition by B cells

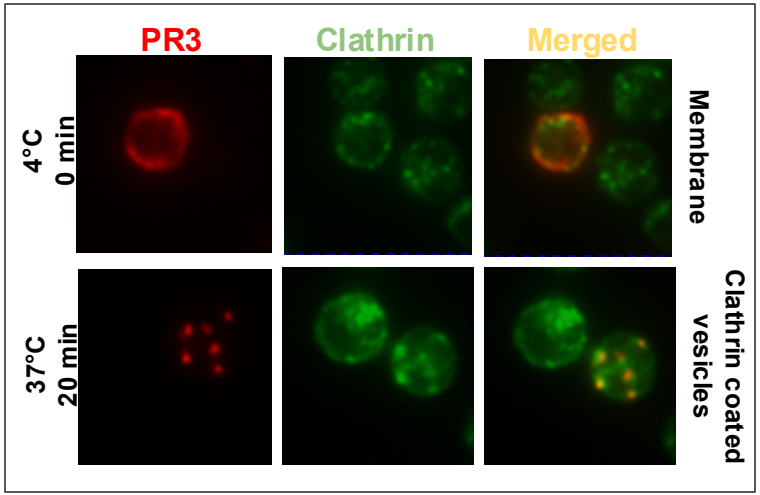




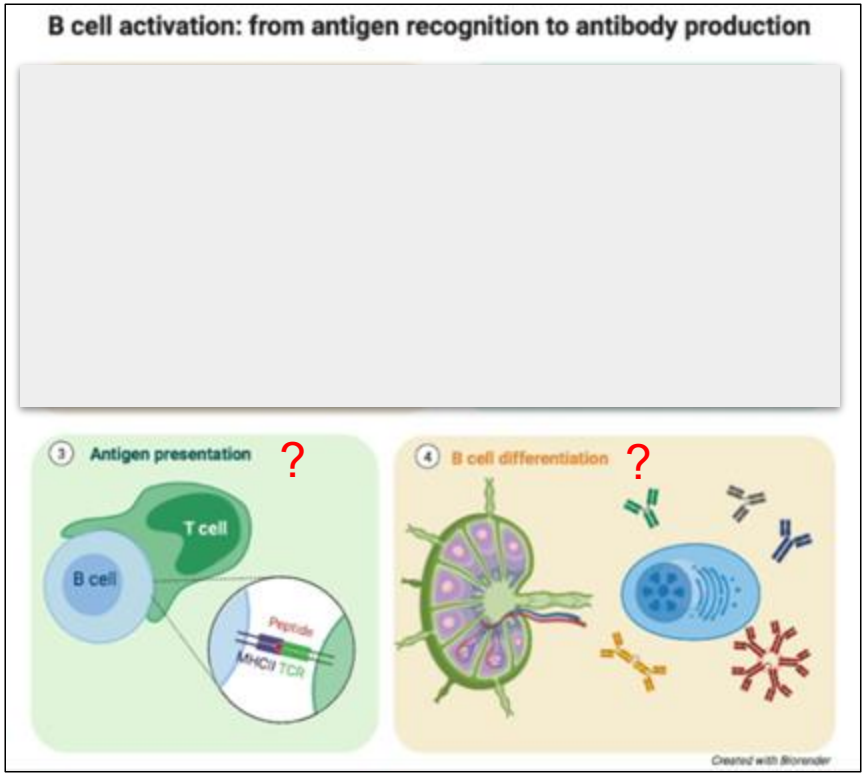
B cells bind PR3 antigen

Antigen internalization by B cells

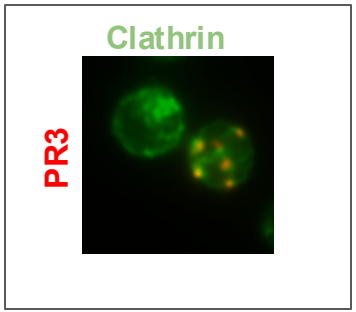


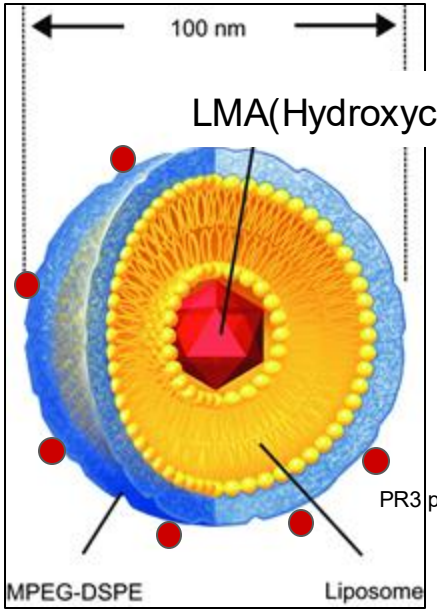


Future plans



Targeted therapy using liposomes ??





Acknowledgements

Mathilde, Eleonore, Sophie, Divi
Yuna
Omid, Fiona, Pauline, Emie
Boris

CurAAV consortium
GFEV

All LBAI members