• Ceramide induces apoptotic signaling via both transcription-dependent and -independent pathway

Ceramide Signaling

- Anti-SPE B antibodies in post-infectious sequelae

Group A Streptococcus

• Group A streptococcus induces autophagy and multiplies in endothelial cells

Annexin A2 Membrane Trafficking

• Interferon-γ enhances phagocytosis in lung epithelial cells via p11- and exosome-dependent surface translocation of annexin A2

Dengue virus

- Anti-NS1 antibody-mediated dengue disease pathogenesis

Group A Streptococcus

- Molecular mimicry between streptococcal pyrogenic exotoxin B and endothelial cells

Dengue vaccine development

- Safe
- Effective
- Specific
- Non-ADE

Dengue virus infection

- Autoimmunity
- Molecular mimicry

Autoantibody-mediated

- Platelet dysfunction
- Endothelial cell inflammation
- Endothelial cell apoptosis
- Liver injury

DHF/DSS

Liver injury caused by antibodies against dengue virus nonstructural protein 1 in a murine model. Lab. Invest. 88:1079-1089.


