

Immuno Delivery I

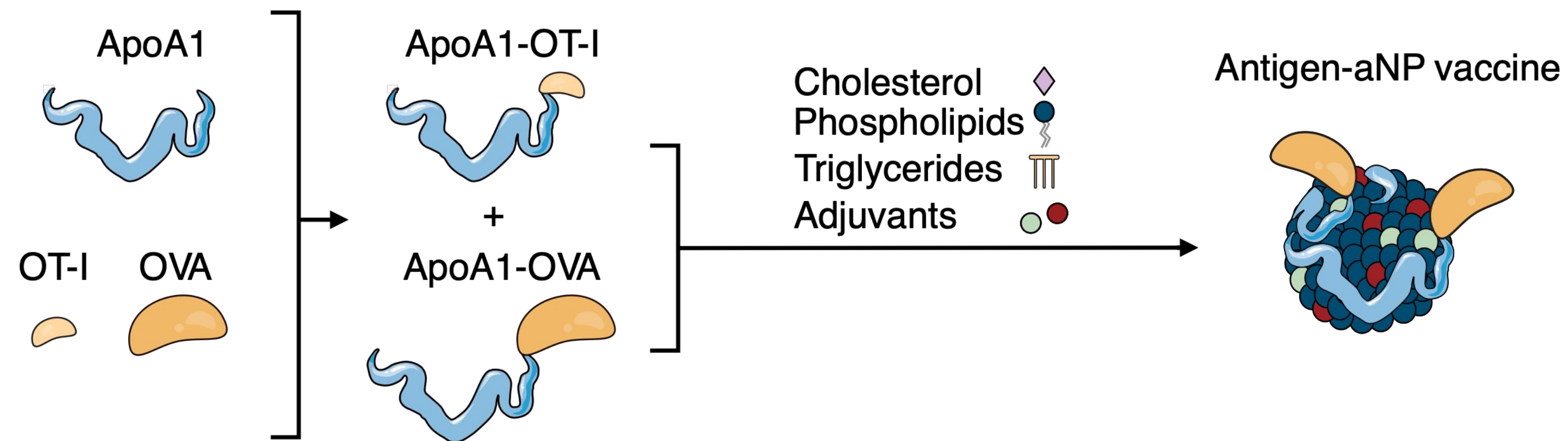
Anne de Dreu

A modular nanoparticle vaccine platform for simultaneous antigen and adjuvant delivery to antigen-presenting cells

Poster #353



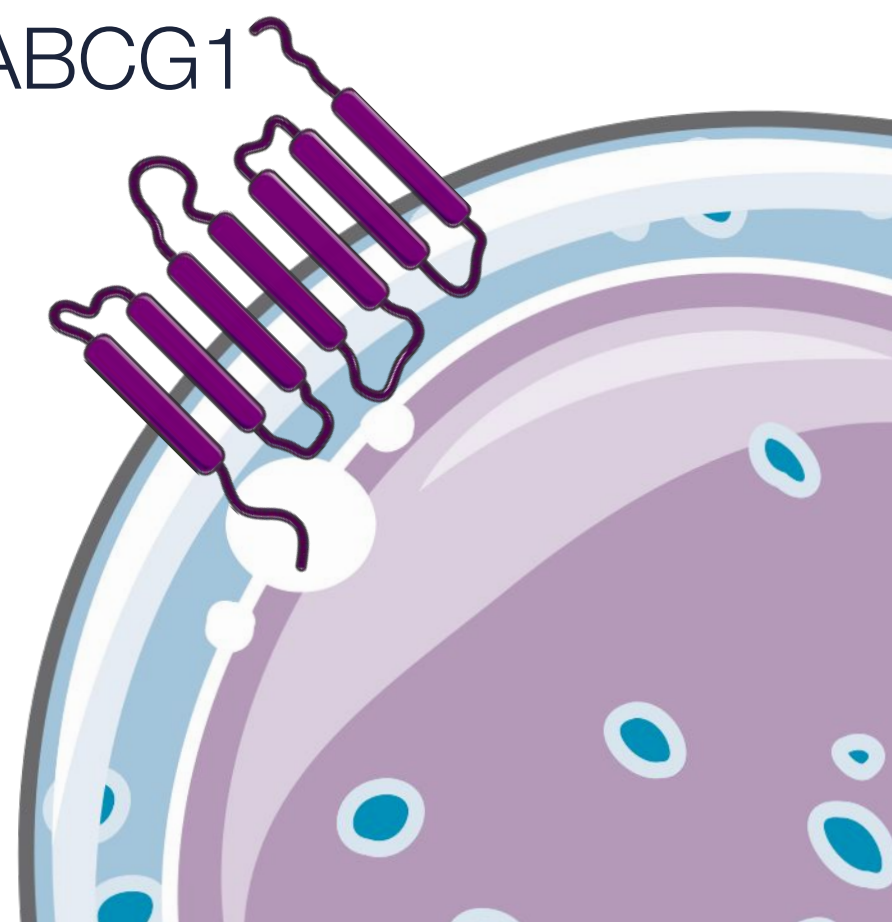
Apolipoprotein nanoparticle (aNP) vaccine platform



- ▶ Easy exchange of antigen
- ▶ Tunable adjuvanticity
- ▶ Co-delivery to antigen presenting cells

Myeloid cells

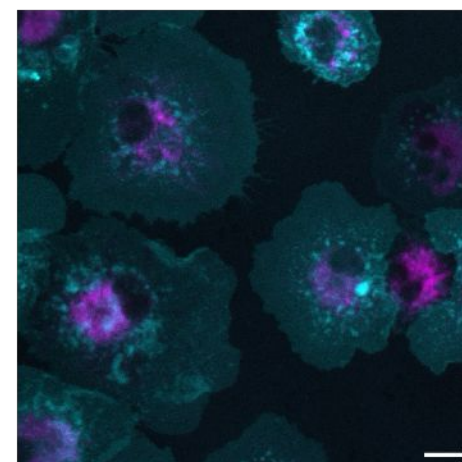
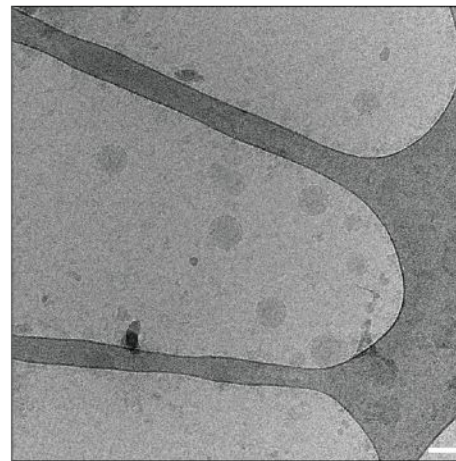
ABCA1
ABCG1



Vaccine aNPs distribute to lymph nodes



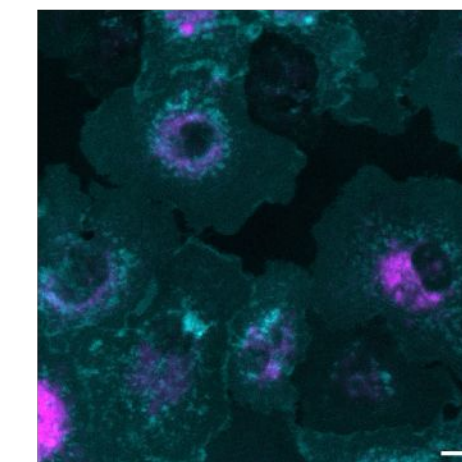
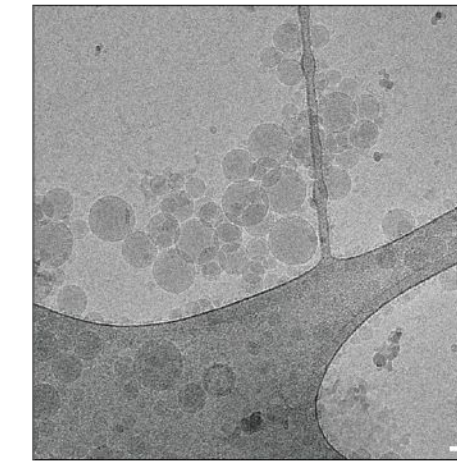
OT-I-aNP



Cell membrane
aNP

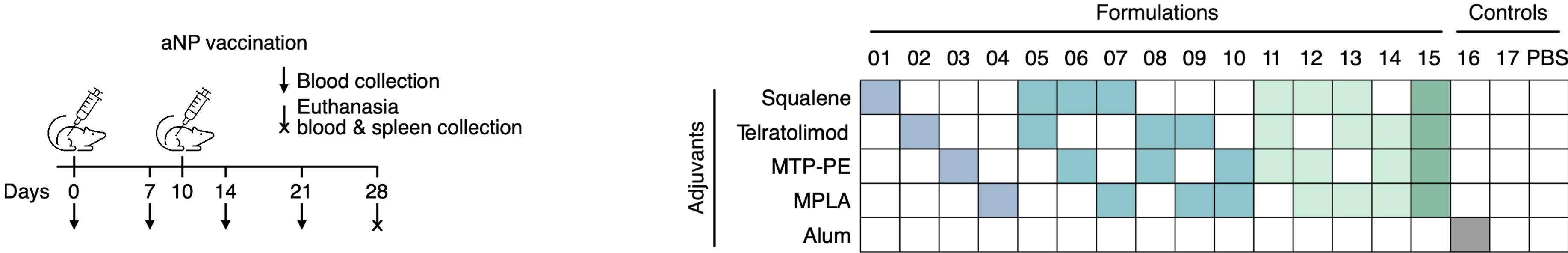


OVA-aNP

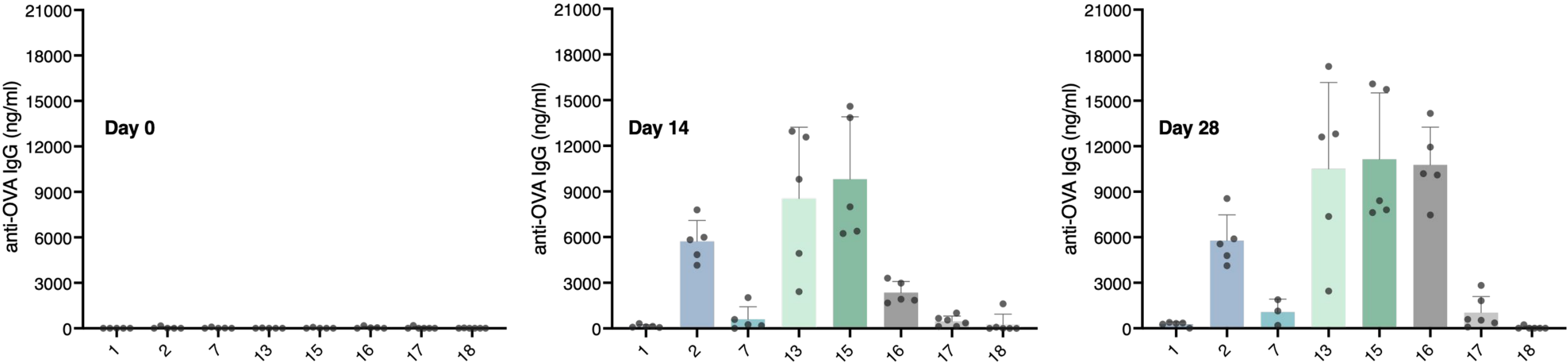


Cell membrane
aNP

Vaccination with aNPs results in humoral and cellular responses



Anti-OVA IgG serum levels on day 0, 14 and 28



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