

BREACH
BELGIAN RESEARCH **AIDS&HIV** CONSORTIUM



Best Poster Contest

22 Posters

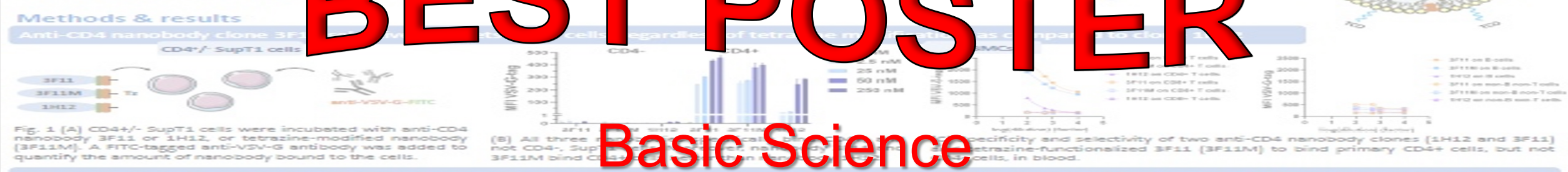
- 8 Basic Science
- 10 Clinical Science
- 4 Public Health

Introduction & aims

Upon recognition of the CCR5-coreceptor, human immunodeficiency virus (HIV) infects CD4+ T cells and integrates its proviral DNA into the host genome, establishing a latent viral reservoir. Current project focuses on a genetic HIV cure by targeting CRISPR/Cas9 gene editing technology, delivered by means of lipid nanoparticles (LNP). To target only CD4+ cells, the LNPs will be 'clicked' to anti-CD4 nanobodies (Nb) clone 3F11.

Methods & results

Anti-CD4 nanobody clone 3F11 binds to CD4+ cells regardless of tetrazine modification, as compared to clone 1H12.



“CONJUGATION TO ANTI-CD4 NANOBODIES CAN TARGET LIPID NANOPARTICLES TOWARDS CD4+ CELLS FOR THEIR APPLICATION IN A GENETIC HIV CURE”

