

Cologne Evolution Colloquium

Molecular Basis of
Evolutionary Innovations

SFB 680

Florian Klein

University Hospital of Cologne
and CMMC Cologne

Antibody-Mediated Neutralization of HIV-1

Antibodies are destined to neutralize pathogens and can prevent and fight infectious diseases. Over the last years, advances in single B cell cloning resulted in the isolation of highly potent and broad HIV-1 neutralizing antibodies (bNAbs) that have been shown to prevent SHIV infection in non-human primates (NHPs). Recently, we have demonstrated that a combination of bNAbs can suppress HIV-1 replication in humanized mice, reducing viremia to undetectable levels. While these results strongly encourage the clinical evaluation of bNAbs in HIV-1 therapy, it is of critical importance to understand how the therapeutic potential of antibodies can be harnessed in the most effective way.

Wednesday, December 2, 2015, 17:00
University of Cologne, Institute for Genetics
Seminar Room 0.46

Hosted by Michael Lässig