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Developing human and human-like antibodies for biodefense

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Antibody phage display is a key *in vitro* technology to generate human antibodies. In this presentation, our pipeline for the development of human and human-like antibodies for diagnostics and therapy will be outlined. The development of human and macaque antibodies against category A and B (according to CDC) classified viruses and toxins using phage display will be presented. Detailed

examples will be given for diagnostic and neutralization of *Venezuelan equine encephalitis virus* (VEEV), *Western equine encephalitis virus* (WEEV), Marburg virus and botulinum toxins (EU FP7 Antibot ABE consortium). In addition, the germline humanization of the anti-botulinum toxin antibodies will be outlined.

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