Virion probability to start host infection, $\psi$

- **b12**
  - 0.47 $\mu$g/ml mucosal CnAb
  - 4 of 5 animals infected
  - $IC_50=1.55 \mu$g/ml, $m=1.479$, Ref. [16]
  - $IC_50=0.36 \mu$g/ml, $m=5.26$, Ref. [10]

- **PGT121**
  - 0.02 $\mu$g/ml mucosal CnAb
  - 2 of 5 animals infected
  - $IC_50=0.03 \mu$g/ml, $m=1.946$, Ref. [16]
  - $IC_50=0.002 \mu$g/ml, $m=1.661$, Ref. [10]

- **PGT126**
  - 0.22 $\mu$g/ml or 0.04 $\mu$g/ml mucosal CnAb
  - 3 of 5 or 4 of 5 animals infected
  - $IC_50=0.26 \mu$g/ml, $m=0.8725$, Ref. [16]
  - $IC_50=0.002 \mu$g/ml, $m=1.661$, Ref. [10]

Average $\psi = 2.95 \times 10^{-5}$ determined using *in vitro* antibody neutralization data

Average $\psi = 1.65 \times 10^{-5}$ determined using population neutralization model (Figure 5)