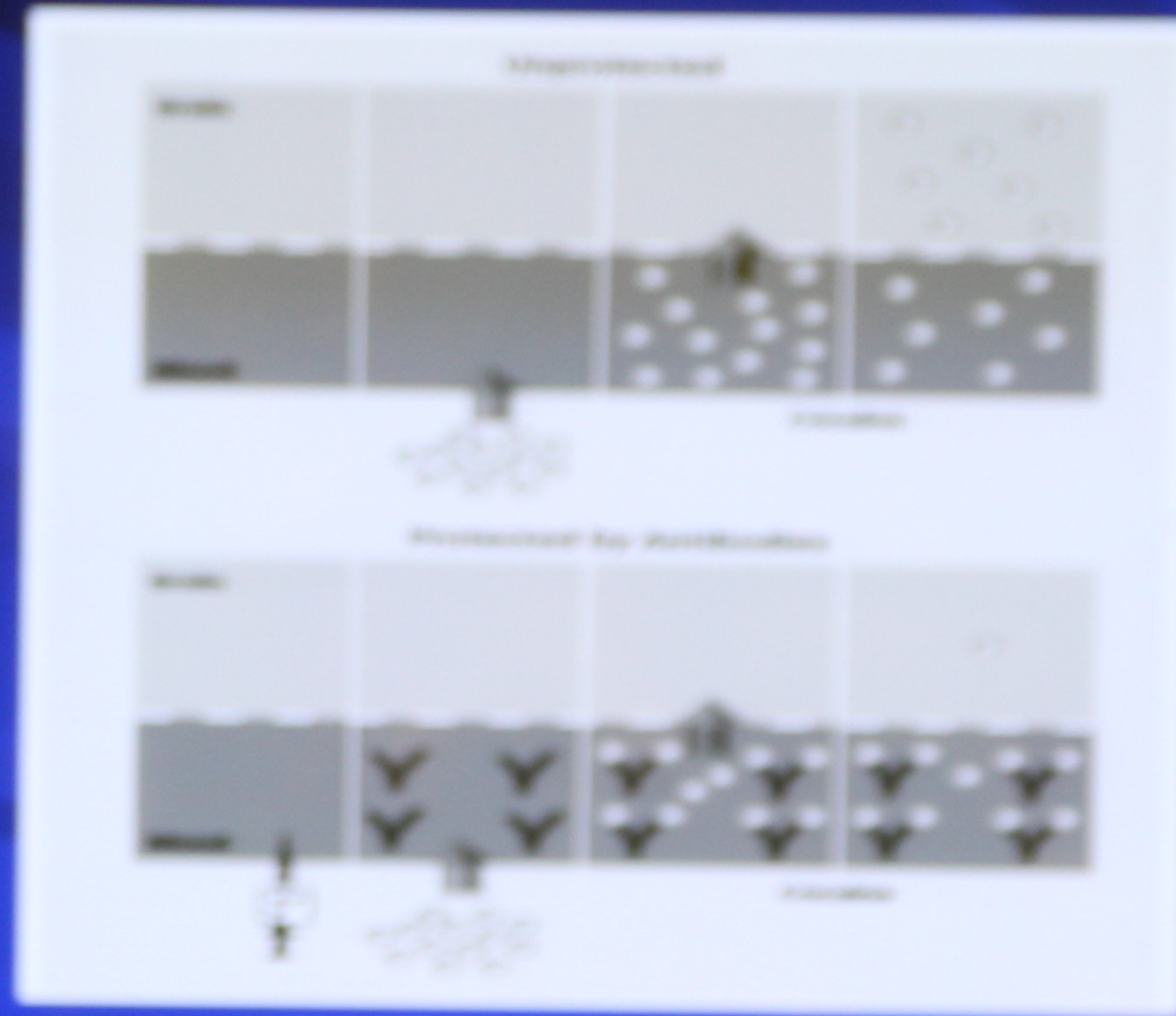


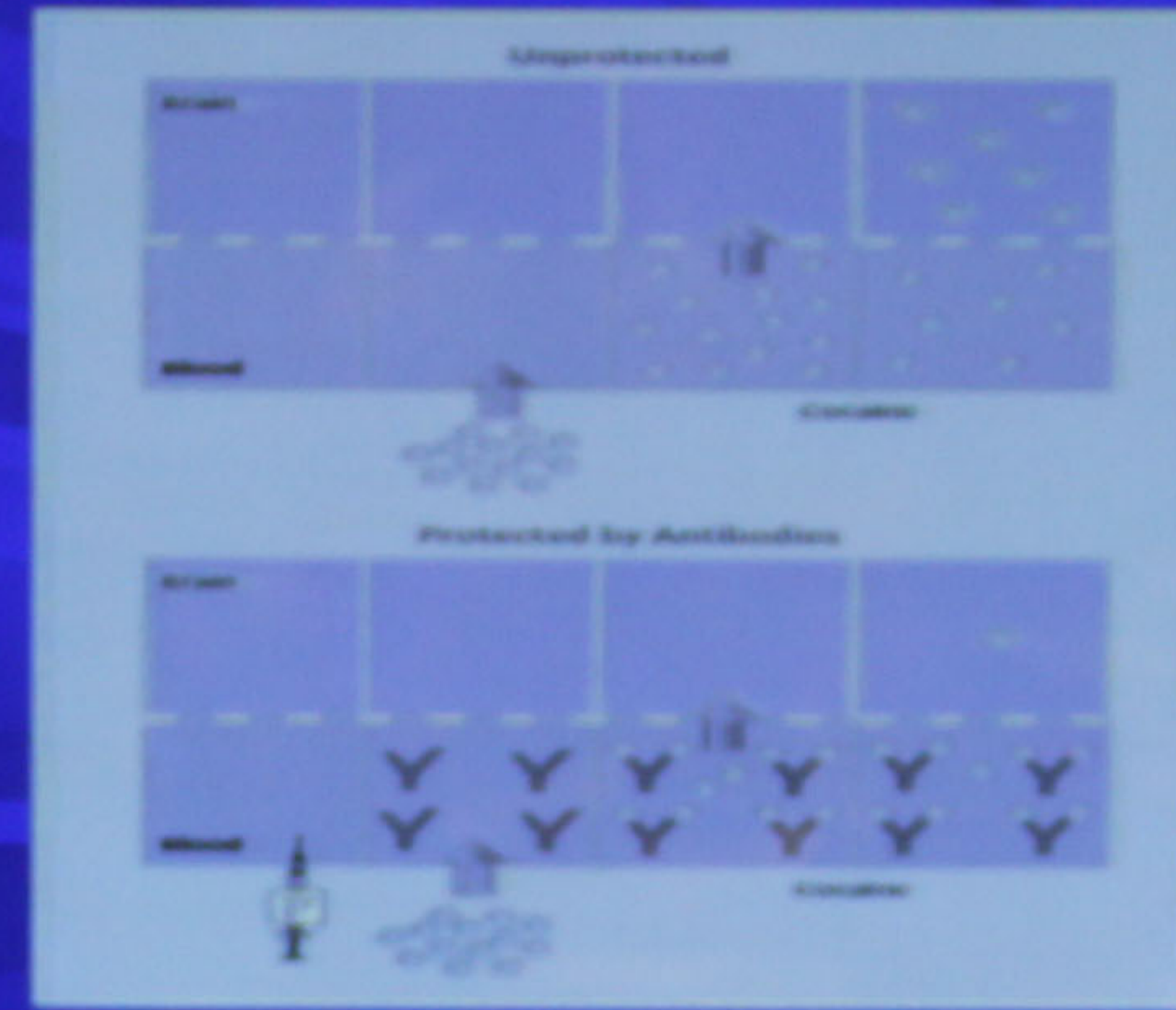
Cocaine Vaccine: What is it?

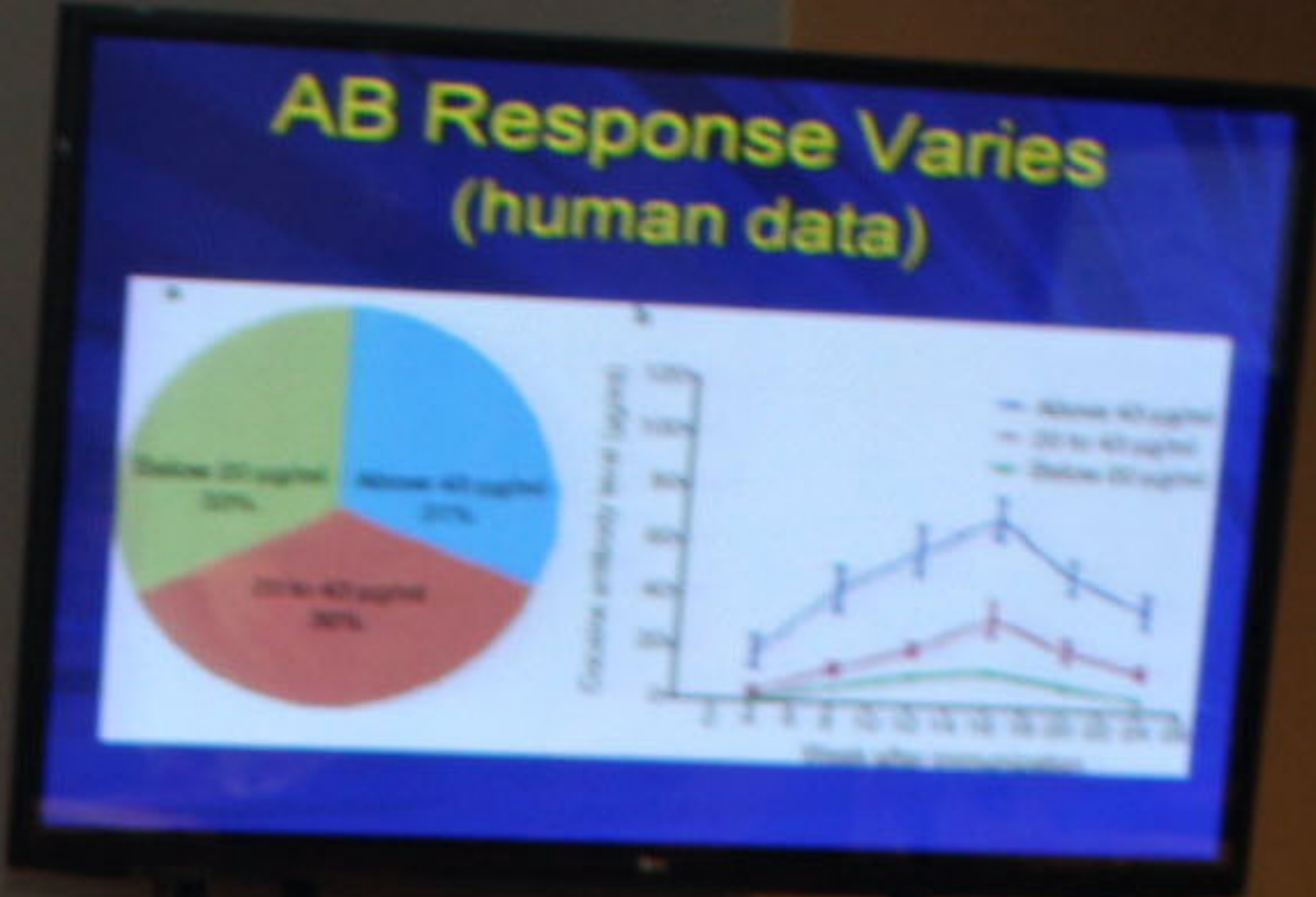
- Active immunisation
 - Hapten: Cocaine derivative
 - Carrier protein: Cholera toxin B (rCTB)
- ... Drug molecules by themselves do not
... produce antibodies.
- Aluminium hydroxide adjuvant

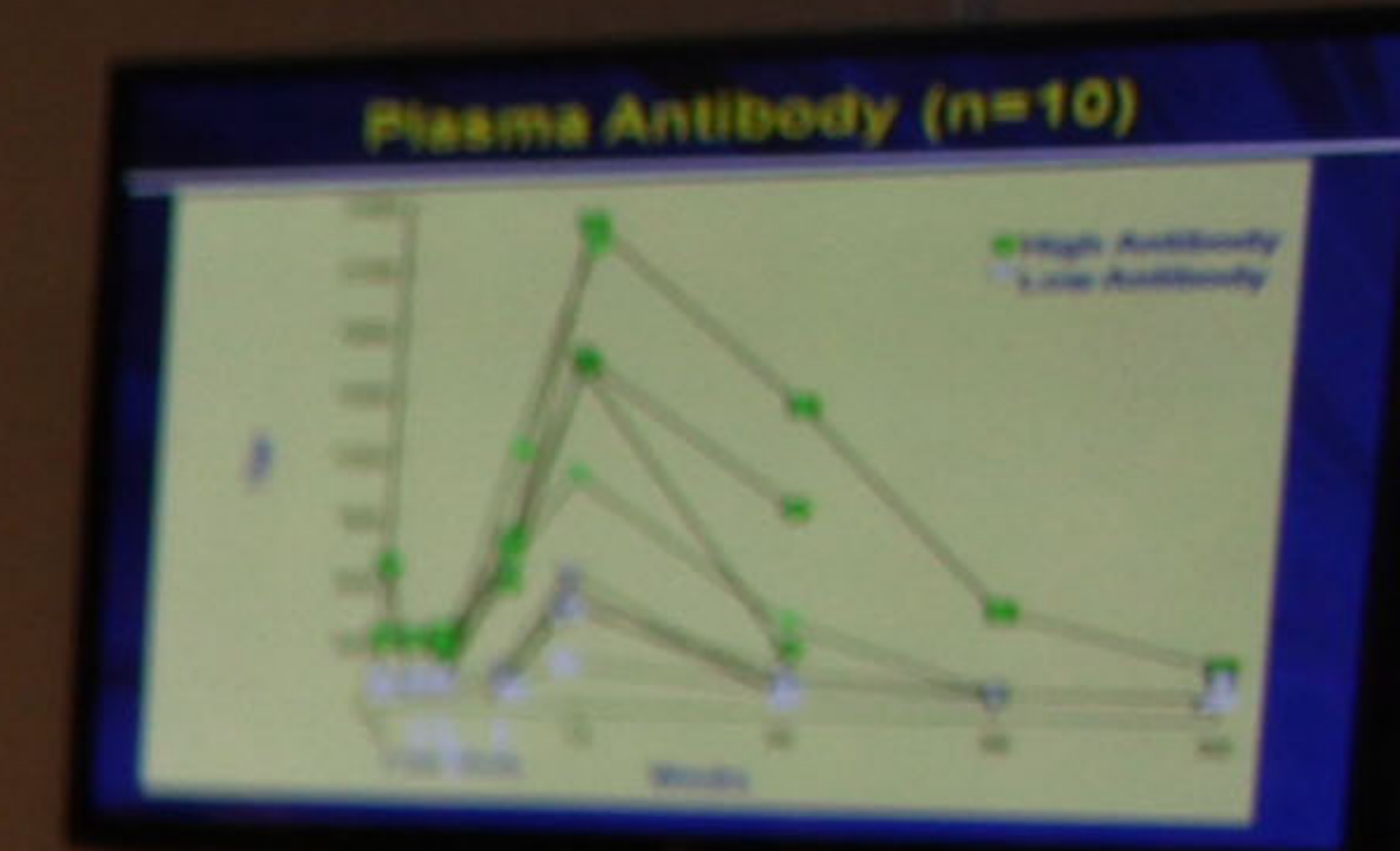
Antibodies keep drugs out of the brain



Antibodies keep drugs out of the brain





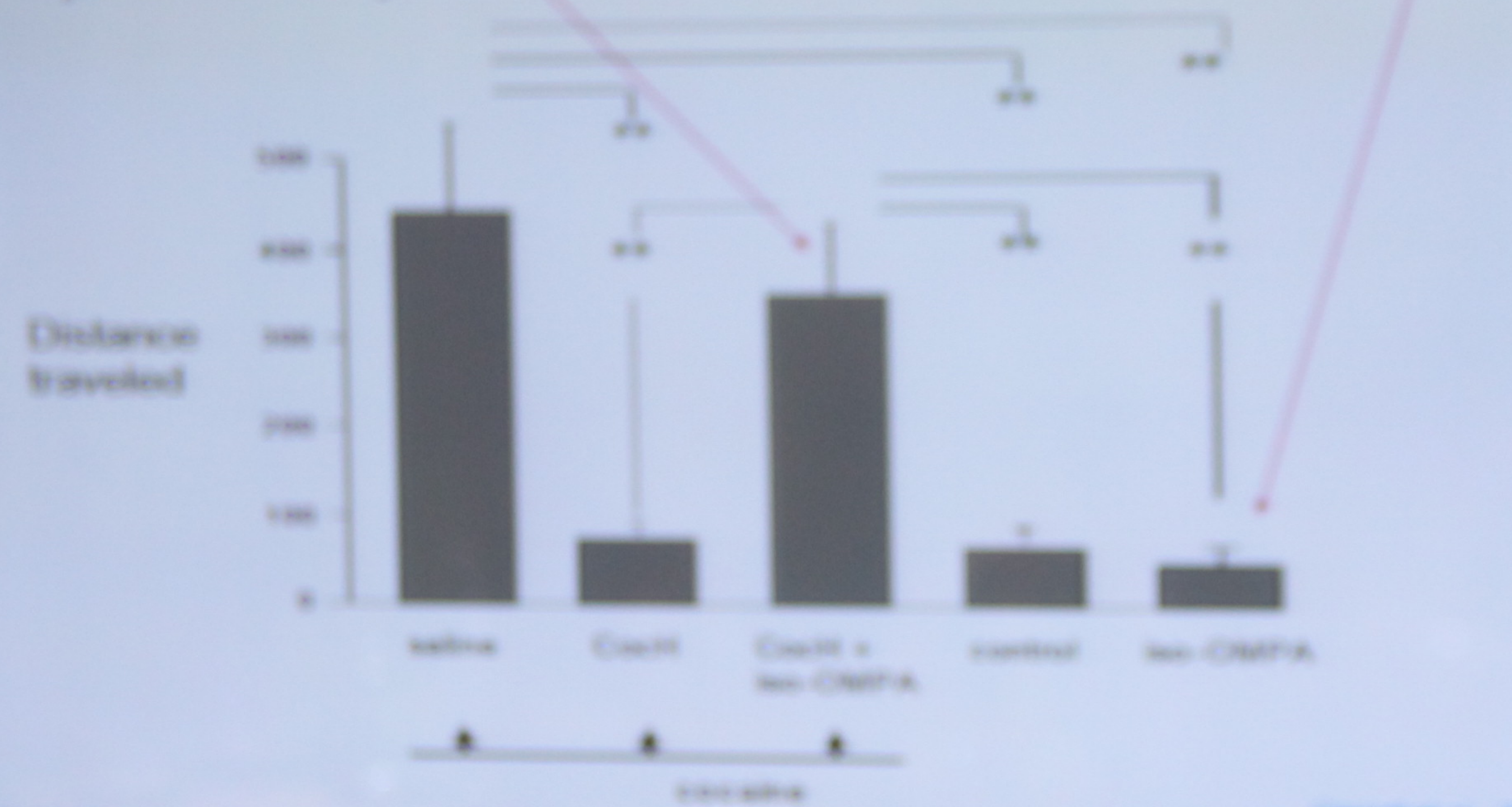




Cocaine hydrolase treatment requires enzyme activity to suppress cocaine-stimulation in mice
Cholinesterase inhibitor, iso-OMPA, blocked enzyme activity

inhibitor restores stimulation in presence of enzyme

inhibitor alone - no effect



Phases of Drug Abuse Process

↓ = 3 studies

