

FPA hardware loaded with top chamber containing either RNA/protein fixative
OR additional LB media



Flight FPA group delivered to Space Shuttle and ground FPA group
delivered to OES room in SLSL



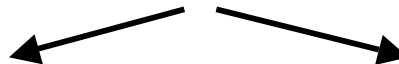
Space Shuttle launched and all FPA hardware identically activated at 9 days post-launch



At 25 hours post-activation, all FPA cultures for RNA/protein analysis are fixed and all
FPA cultures for virulence studies are supplemented with additional LB media



Space Shuttle lands on day 12 post-launch and at 2.5 hours post-landing,
flight FPA hardware recovered from Space Shuttle



Flight and ground FPA
cultures containing
RNA/protein fixative are
unloaded and frozen at -80 C

Flight and ground FPA
cultures for virulence studies
are unloaded and used in
murine infection model