

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



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



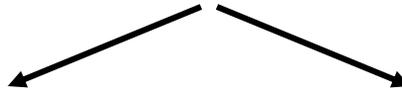
Space Shuttle launched and all FPA hardware identically activated at 12 days post-launch



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 media



Space Shuttle lands on day 15 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