



# The Vira I. Heinz Chair and Affiliates Symposium



*In celebration of 32 amazing years of science*

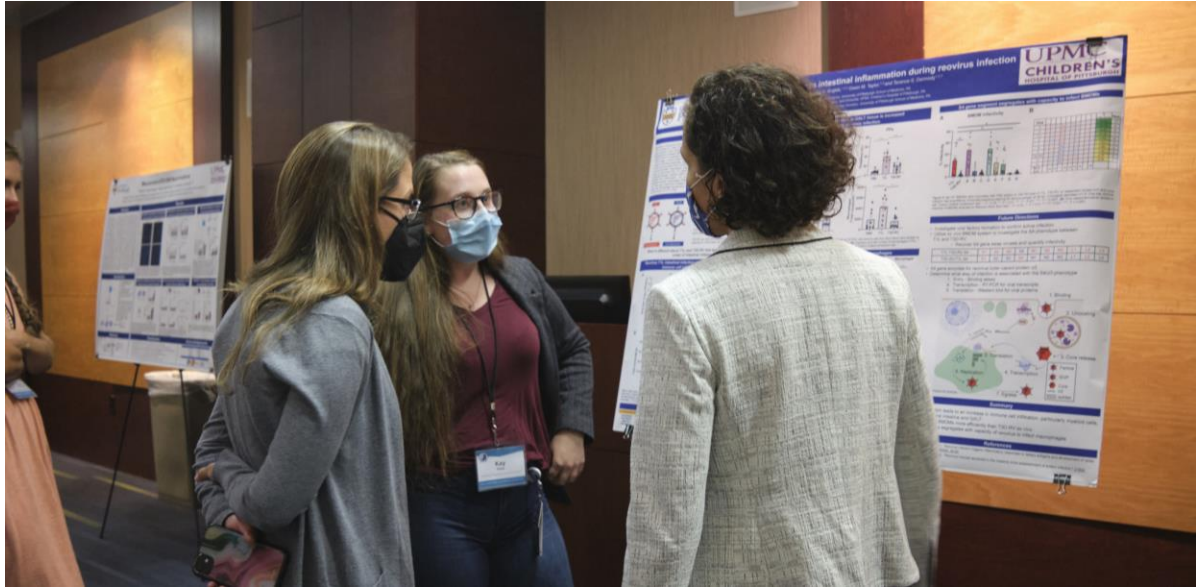
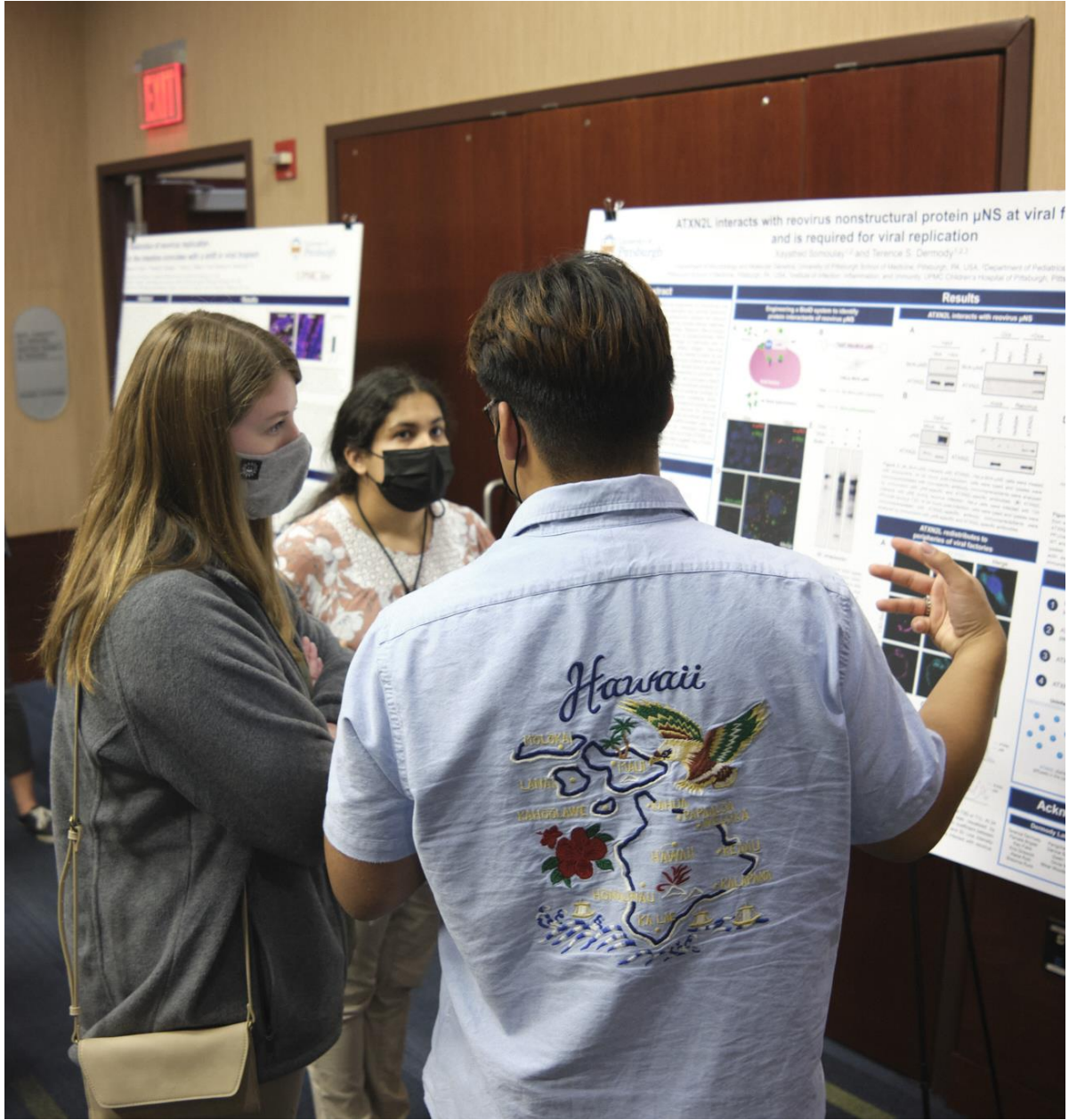


**August 5-6, 2022  
Pittsburgh, Pennsylvania**











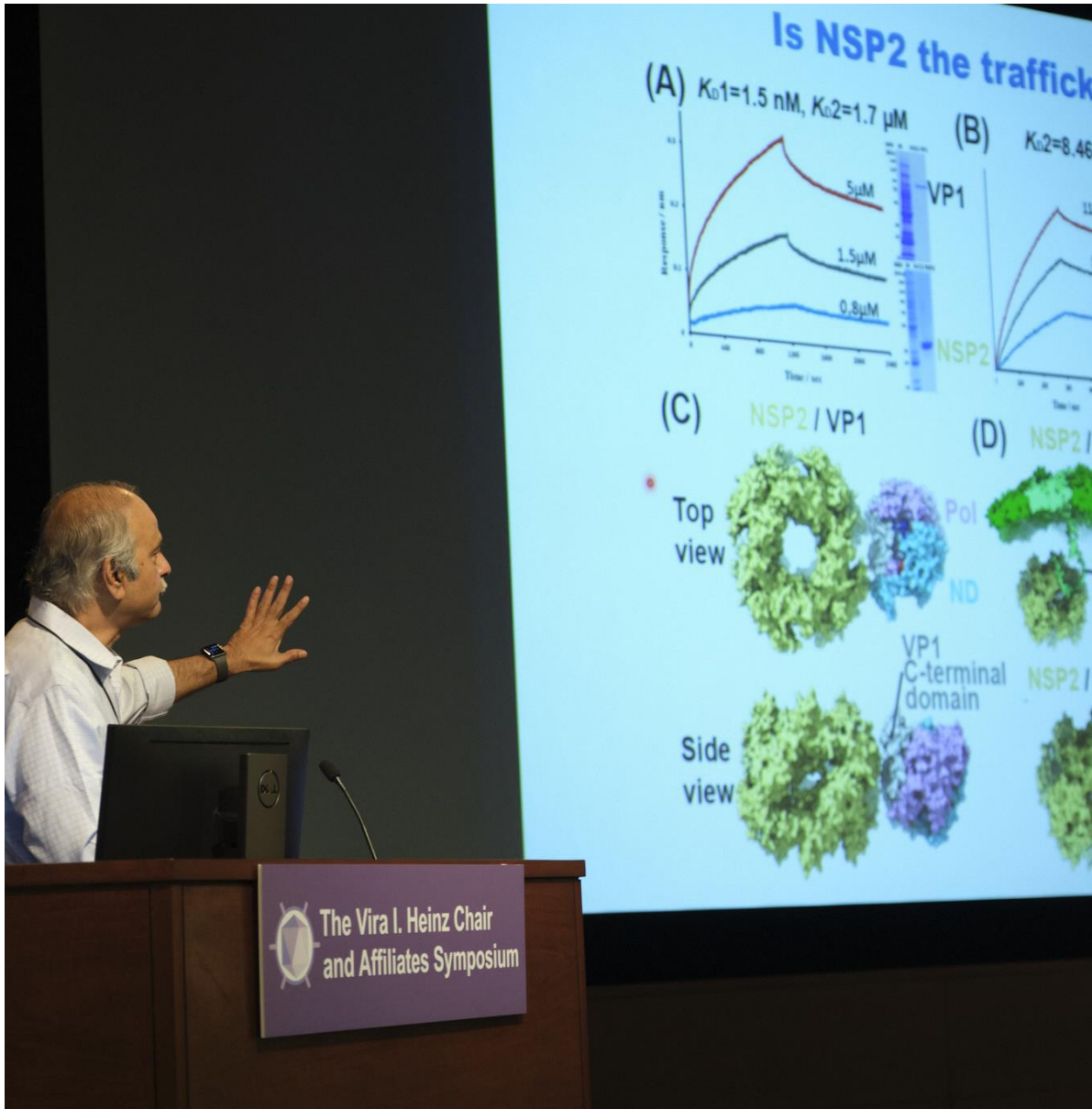


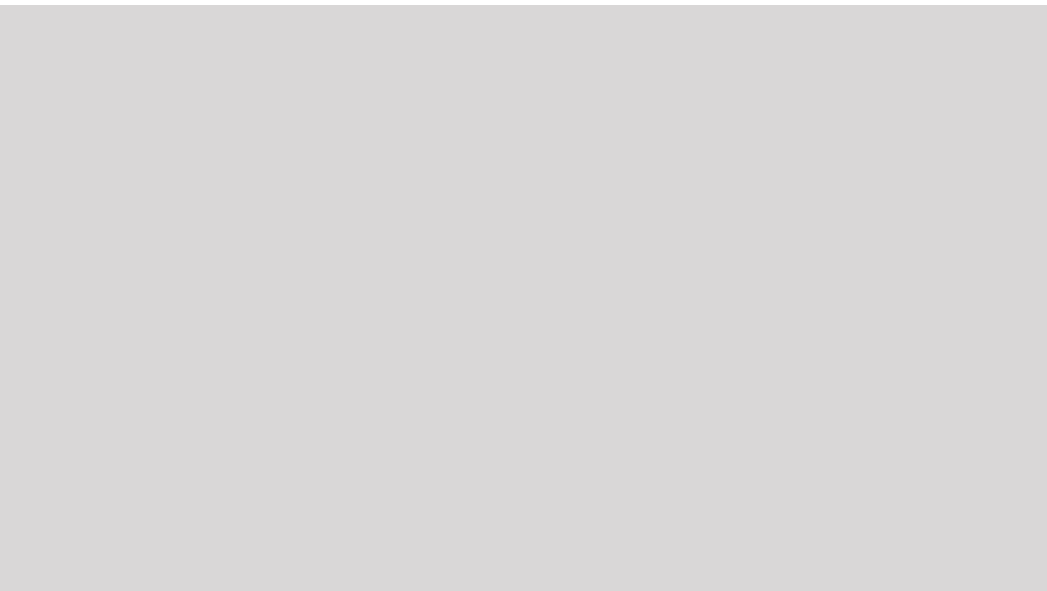












**Do Phagocytic Cells in the Spleen and Liver Control Arbovirus Viremia?**

PBS liposomes (PLL) or Clodronate Liposomes (CLL)  $\xrightarrow{IV}$  2 days  $\xrightarrow{45\text{min}}$   $\xrightarrow{IV}$  Quantify genomes by RT-qPCR or plaque assay

**DENV-2**

| Condition | Input (PFU equivalent/20 $\mu$ l (Log $_{10}$ )) | 45 min (PFU equivalent/20 $\mu$ l (Log $_{10}$ )) |
|-----------|--|---|
| PLL       | ~5.5   | ~1.5  |
| CLL       | ~5.5   | ~0.5  |

**LACV**

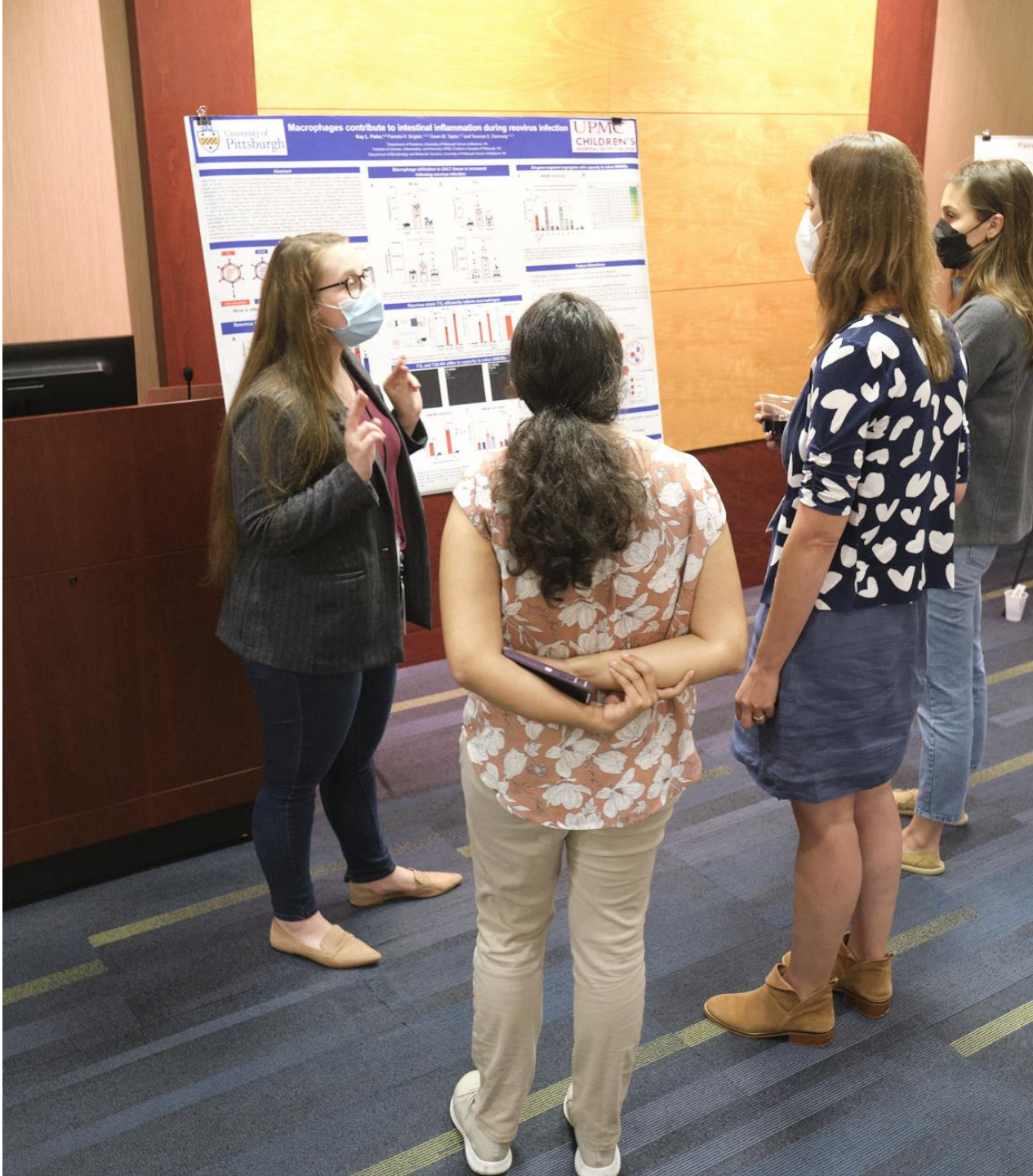
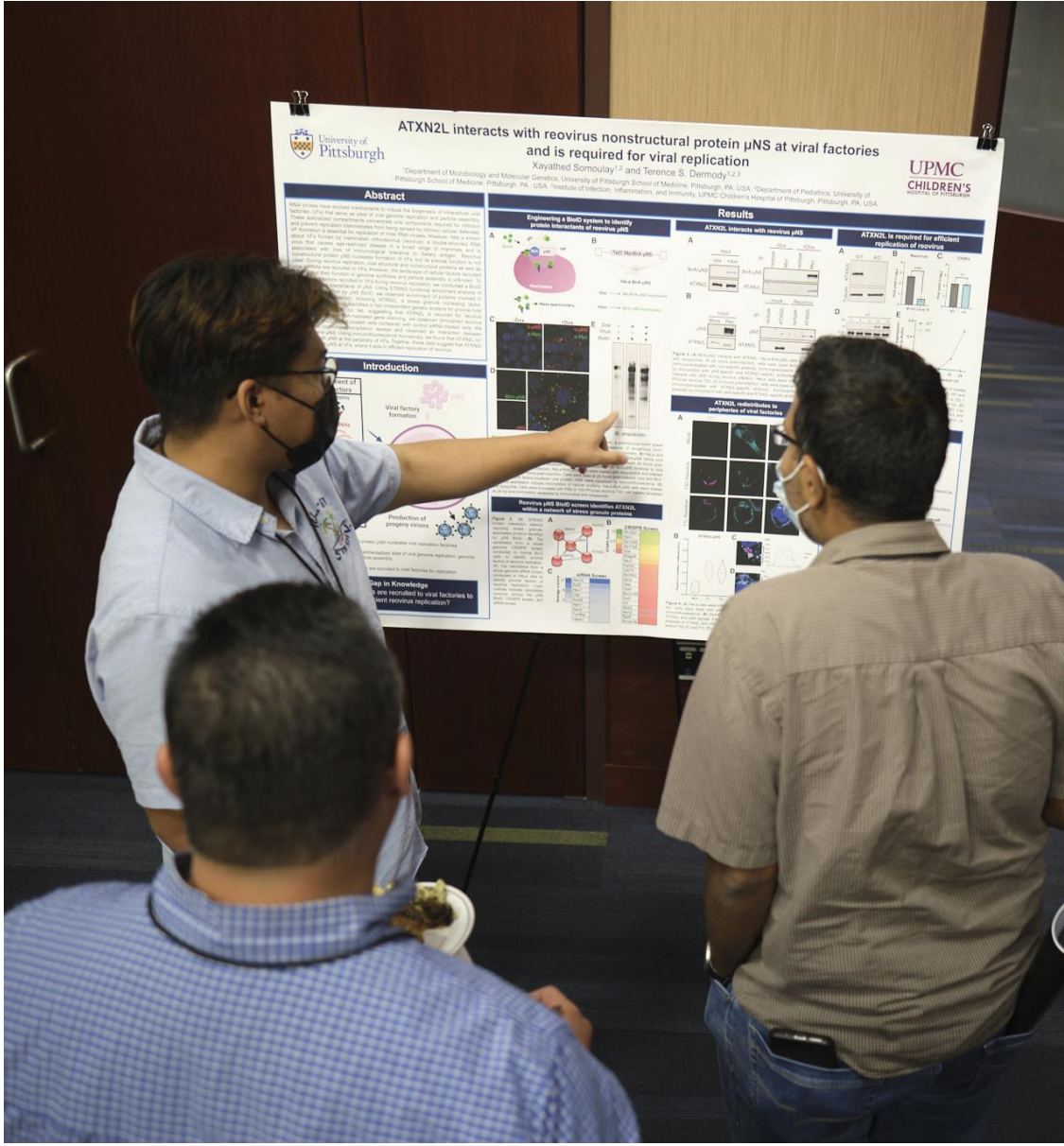
| Condition | Input (PFU/1000 $\mu$ l) | 45 min (PFU/1000 $\mu$ l) |
|-----------|--------------------------|---------------------------|
| PLL       | ~5.5                     | ~1.5                      |
| CLL       | ~5.5                     | ~0.5                      |

Virus accumulates in the liver and liver Kupffer cells are required for efficient viral clearance from the circulation

Kate Carpenter, Stephanie Andor, Francois Li



DERMODY LAB--32 YEARS STRONG



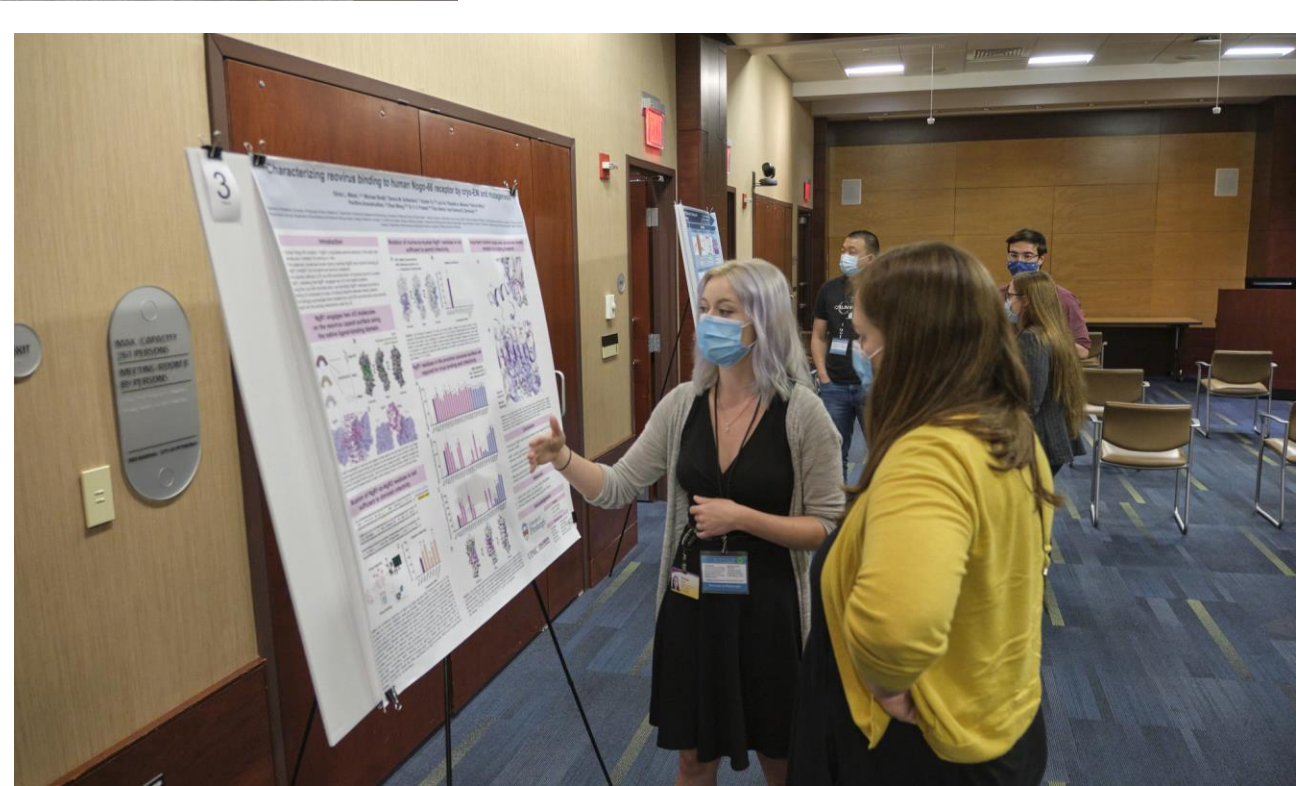
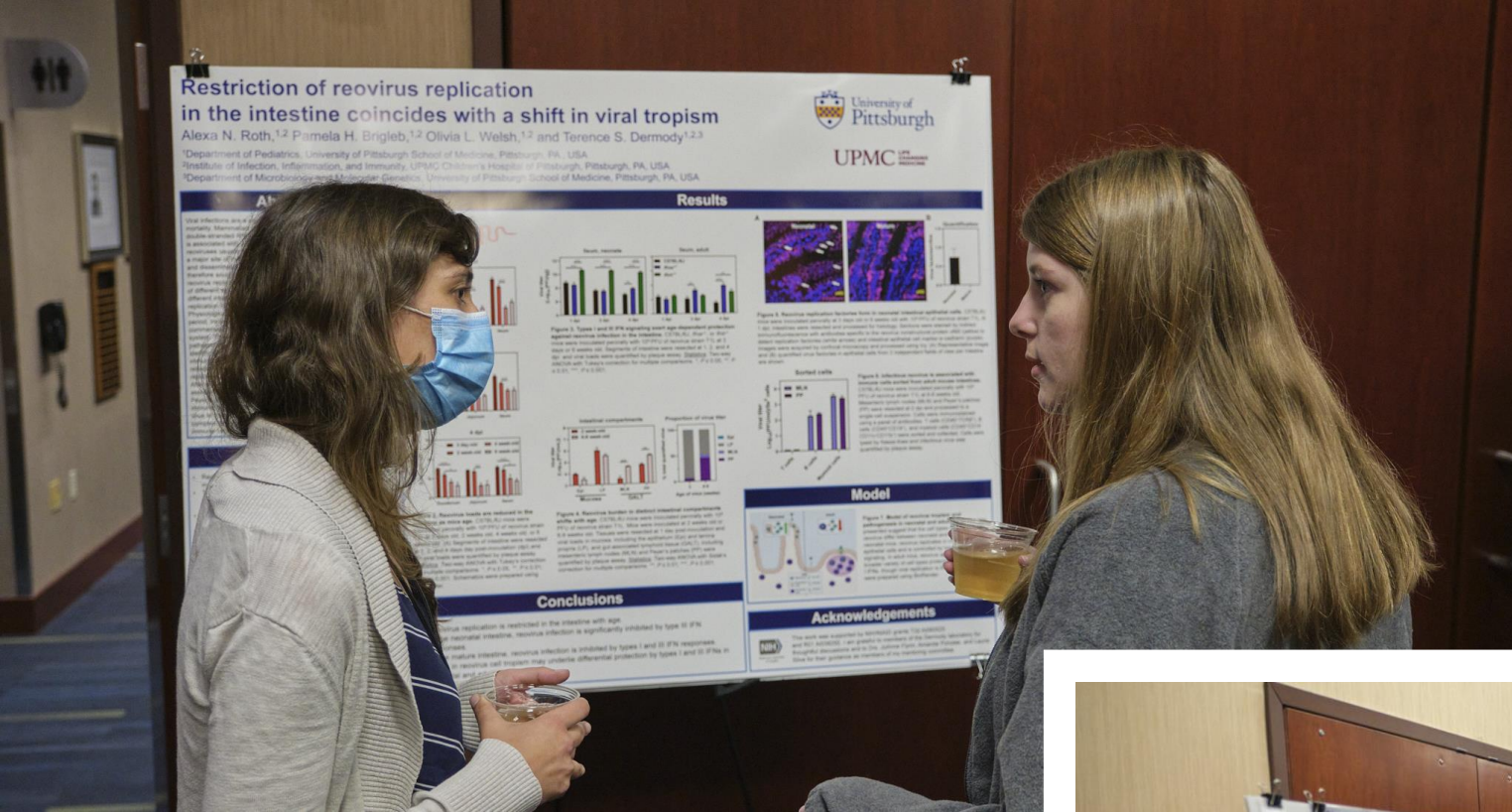
































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Thank You!  
See you in 2030!