











## What accounts for the extreme persistence of the viral reservoir ?- predictions

- HAART stops active replication. Latency allows lifelong persistence of the virus.
  - Prediction, intensification won't change anything.
- Incomplete virologic suppression creates conditions for reservoir replenishment.
  - Prediction, different treatments may perturb the viral reservoirs.

STITY OF MIAMI HEALTH SYSTEM























































## Development of small-molecule Vif antagonists:

RN18 is a *bona fide vif* antagonist -restricts viral replication only in the presence of its target and increases the extent of deamination in viral cDNA (*Nathans et al., Nature Biotech.*)

Proof-of-principle evidence that cellular restrictions can be harnessed as novel antivirals.

RN18 is a drug-like molecule. Preclinical development of these novel antagonists is underway (NIH UO1 and Industry support)





