

Advances Toward a Cure for HIV

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Financial Relationships Wit	th Commercial Entities
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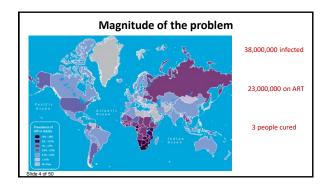
Slide 2 of 50

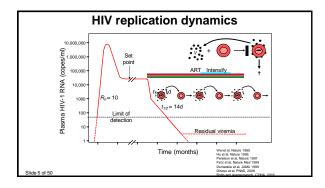
Learning Objectives

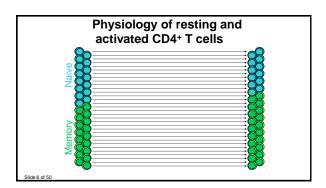
After attending this presentation, learners will be able to:

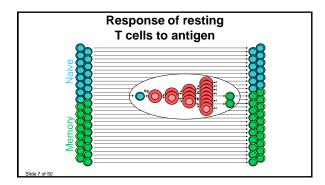
- Describe basic mechanisms that allow HIV to persist despite antiretroviral therapy (ART)
- Recognize how proliferation of latently infected resting CD4+ T cells contributes to viral persistence
- Describe 1 current approach for achieving an HIV cure

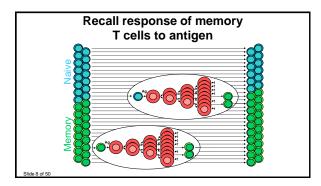
Slide 3 of 50

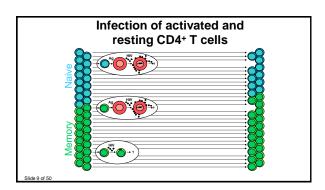


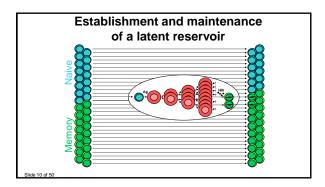


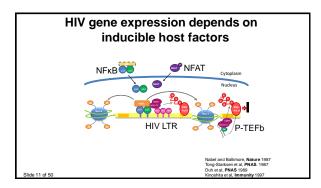


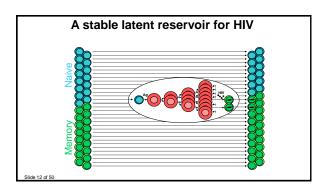


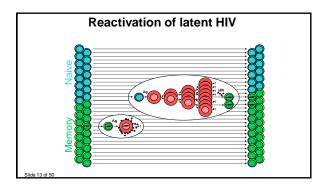


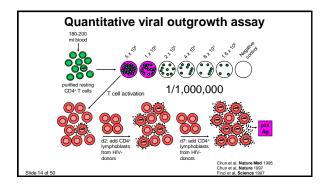


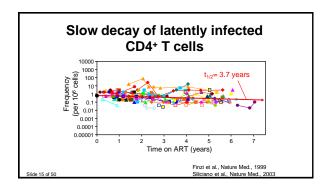


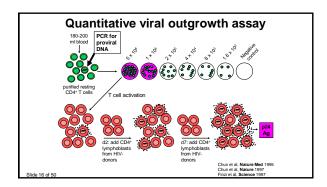


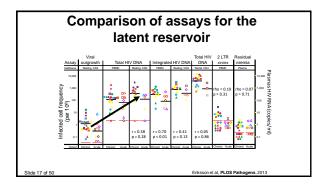


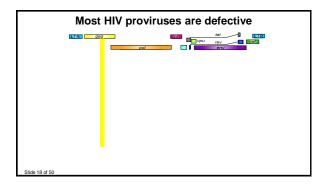


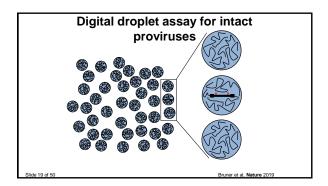


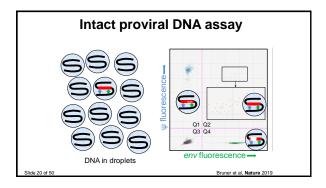


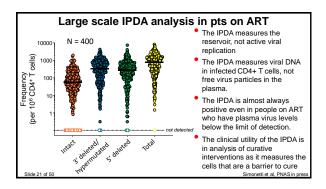


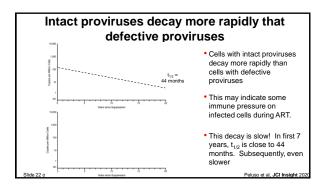


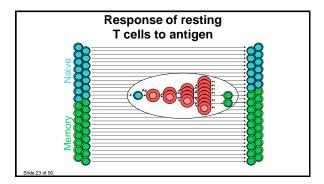


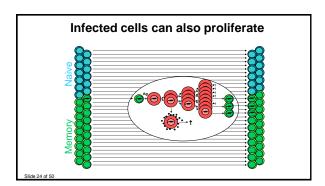


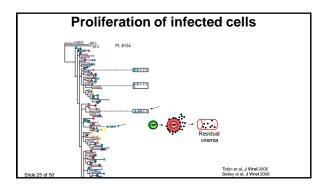


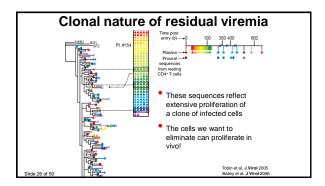


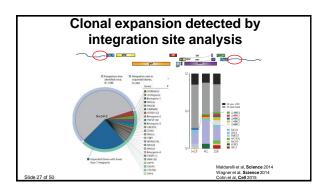


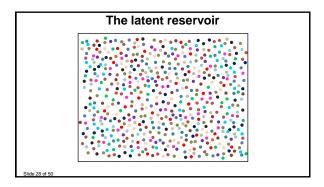


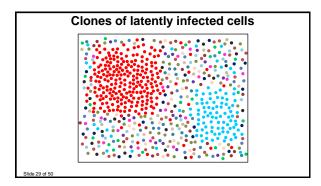


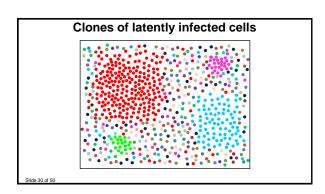


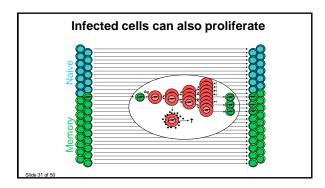


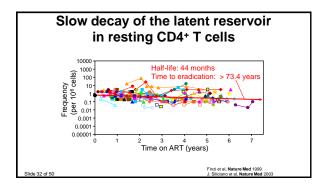


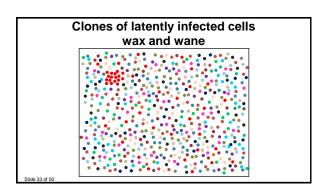


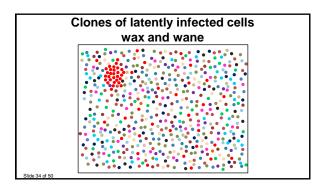


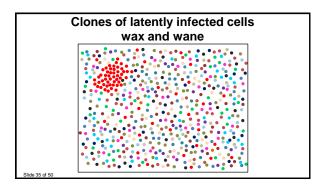


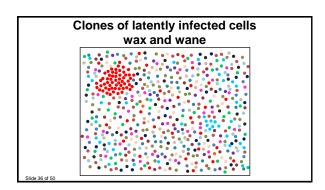


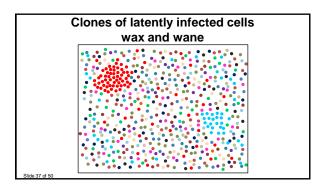


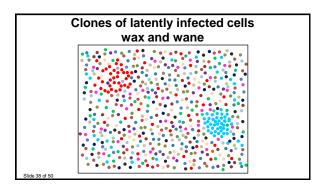


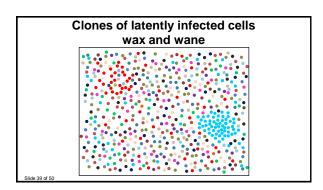


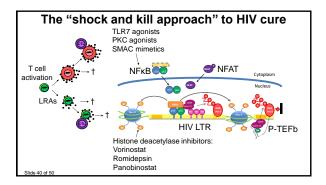


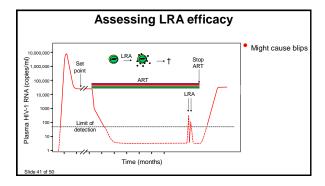


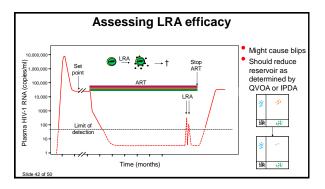


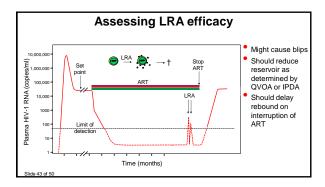


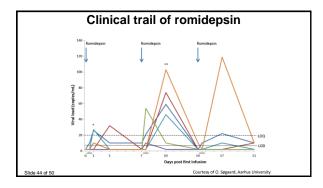


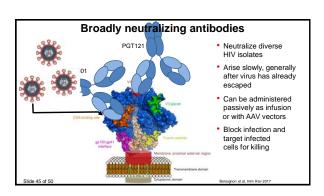


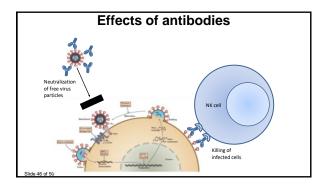


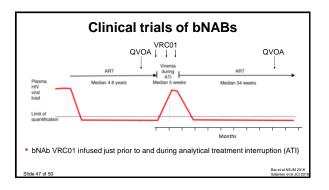


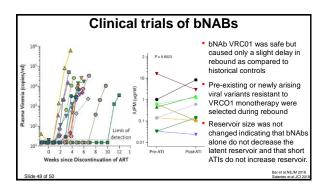












Conclusions

- The latent reservoir in resting CD4+ T cells is the major barrier to cure
- Accurate measurement of the reservoir is important for evaluating cure interventions and requires distinguishing intact proviruses from defective ones. This can be done with a novel assay, the IPDA.
- The reservoir is maintained by the proliferation of infected cells in response to antigens. This is a serious problem for cure efforts.
- Eliminating the reservoir through the "shock and kill" strategy will require finding better ways to turn on latent HIV and better ways to induce the killing of productively infected cells
- Broadly neutralizing antibodies are of great interest in the HIV vaccine field and may also be useful to enhance killing of infected cells.

Slide 49 of 50

Thank you

Collaborators

Steve Deeks Rebecca Hoh Greg Laird Katie Bar Pablo Tebas

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Slide 50 of 50



Question-and-Answer Session