

All truth about AIDS

How does HIV drugs works

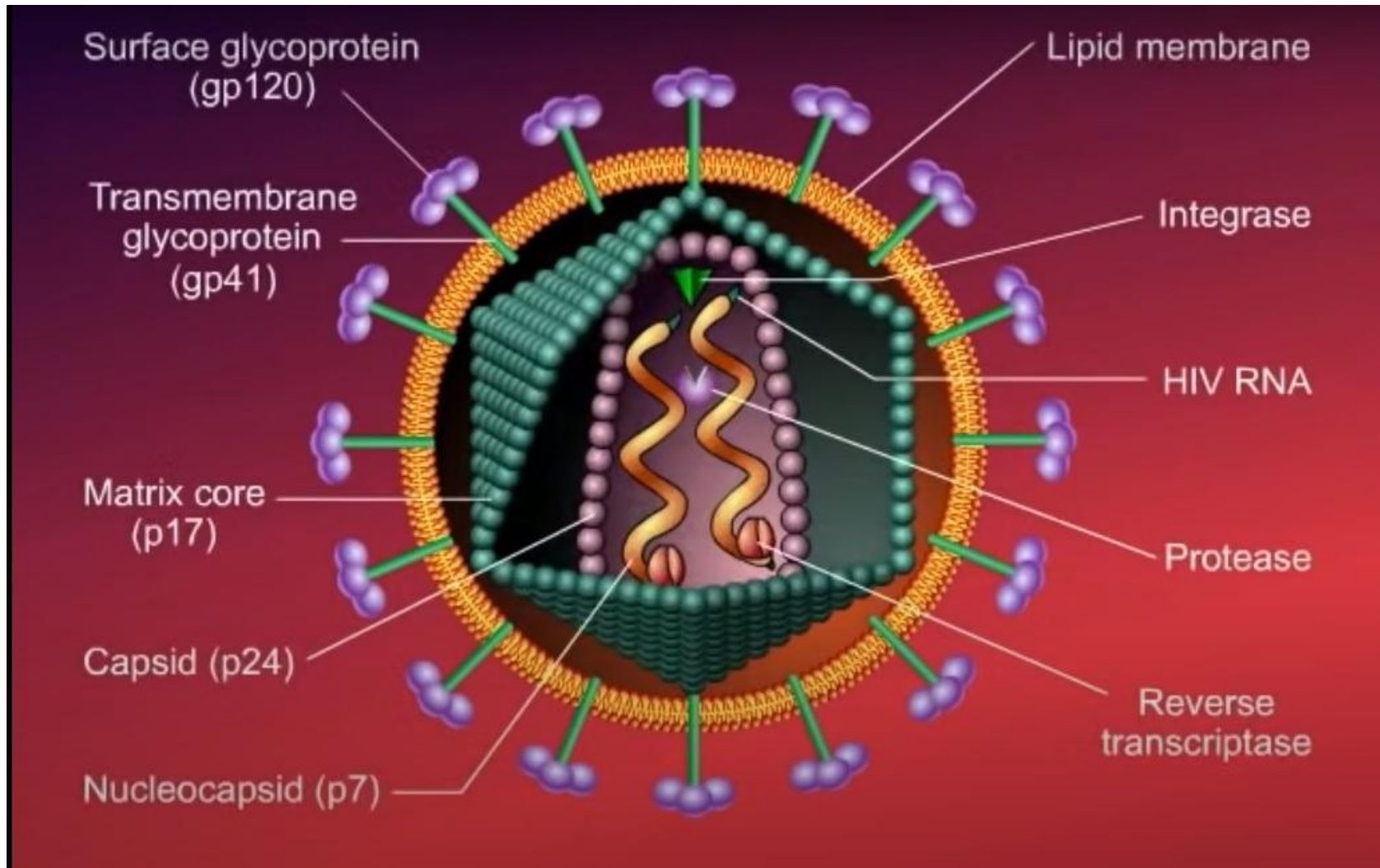


Выполнил
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Тертерьянц Е.С.

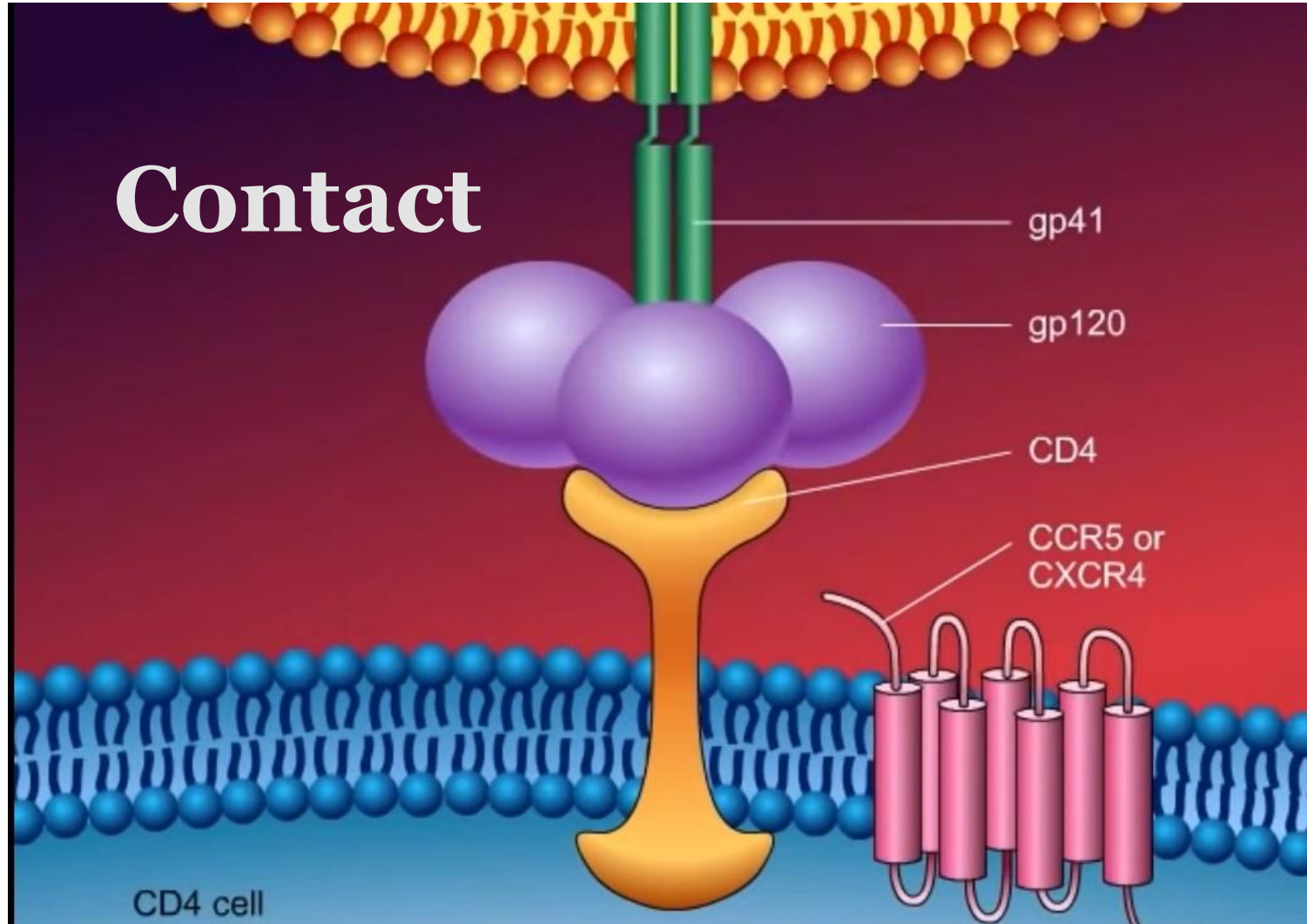
Plan

- **Parts of HIV**
- **How does HIV function**
- **How does anti-retrovirals work**
- **Resistance problem**

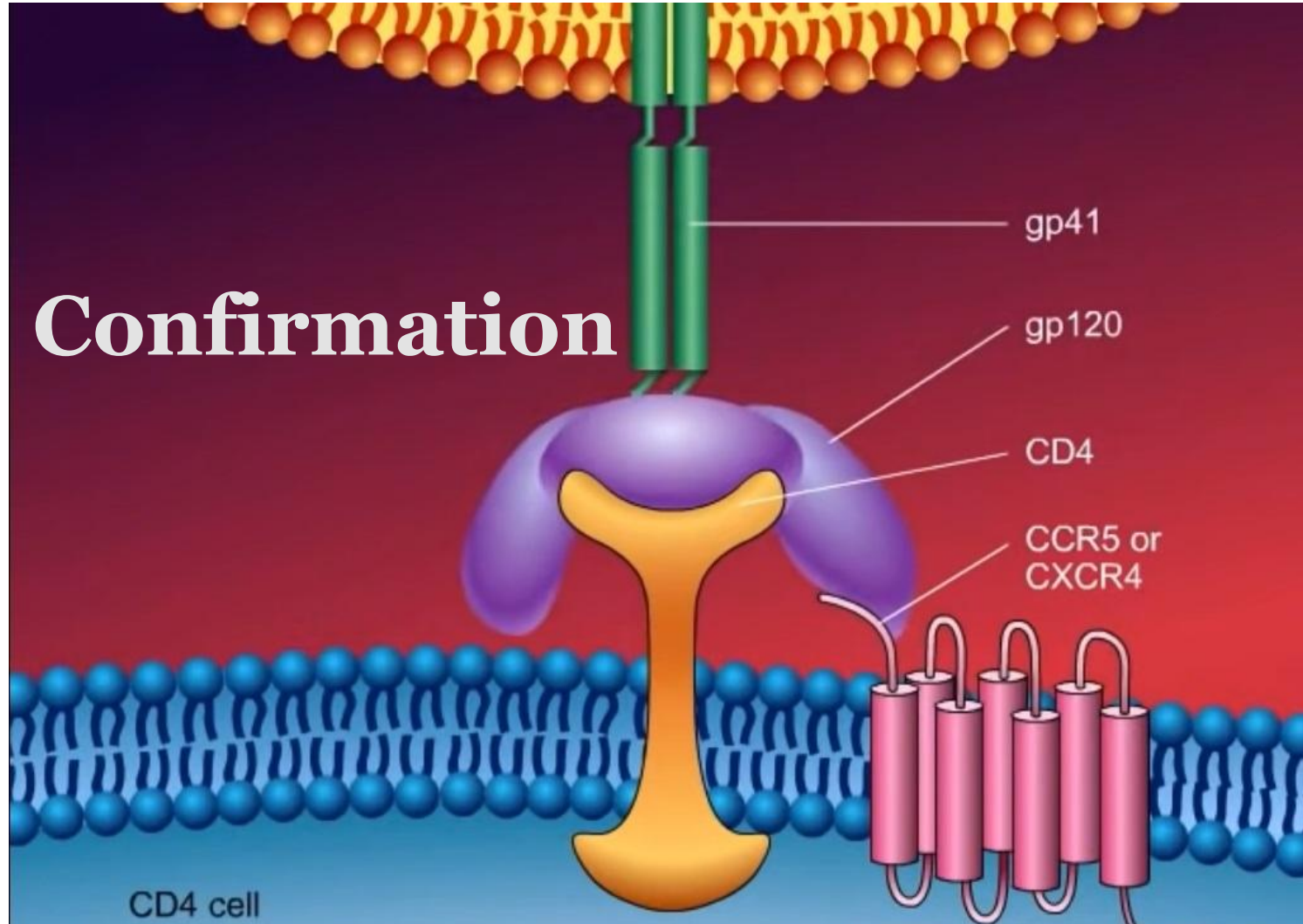
Parts of HIV



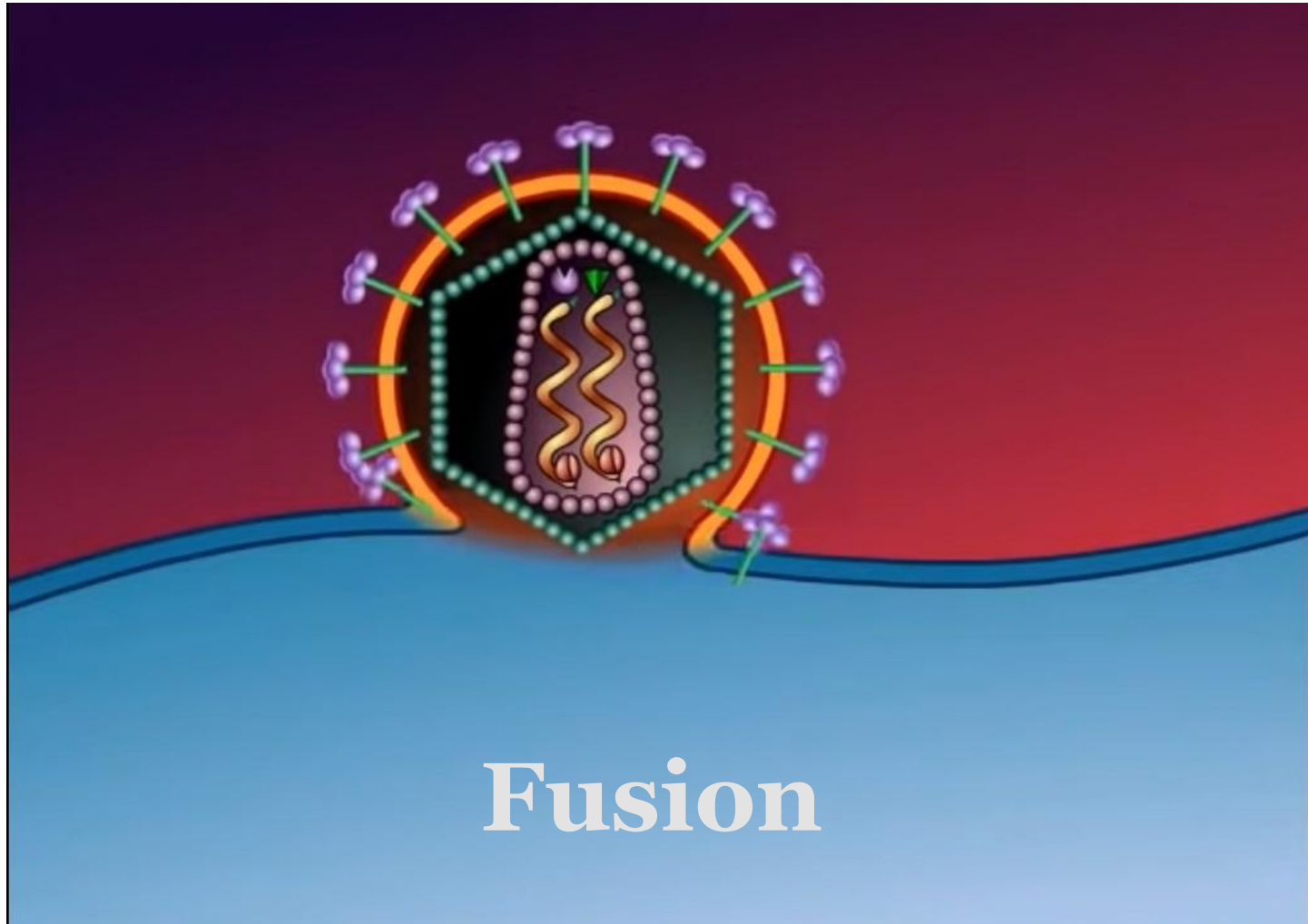
How dose HIV function



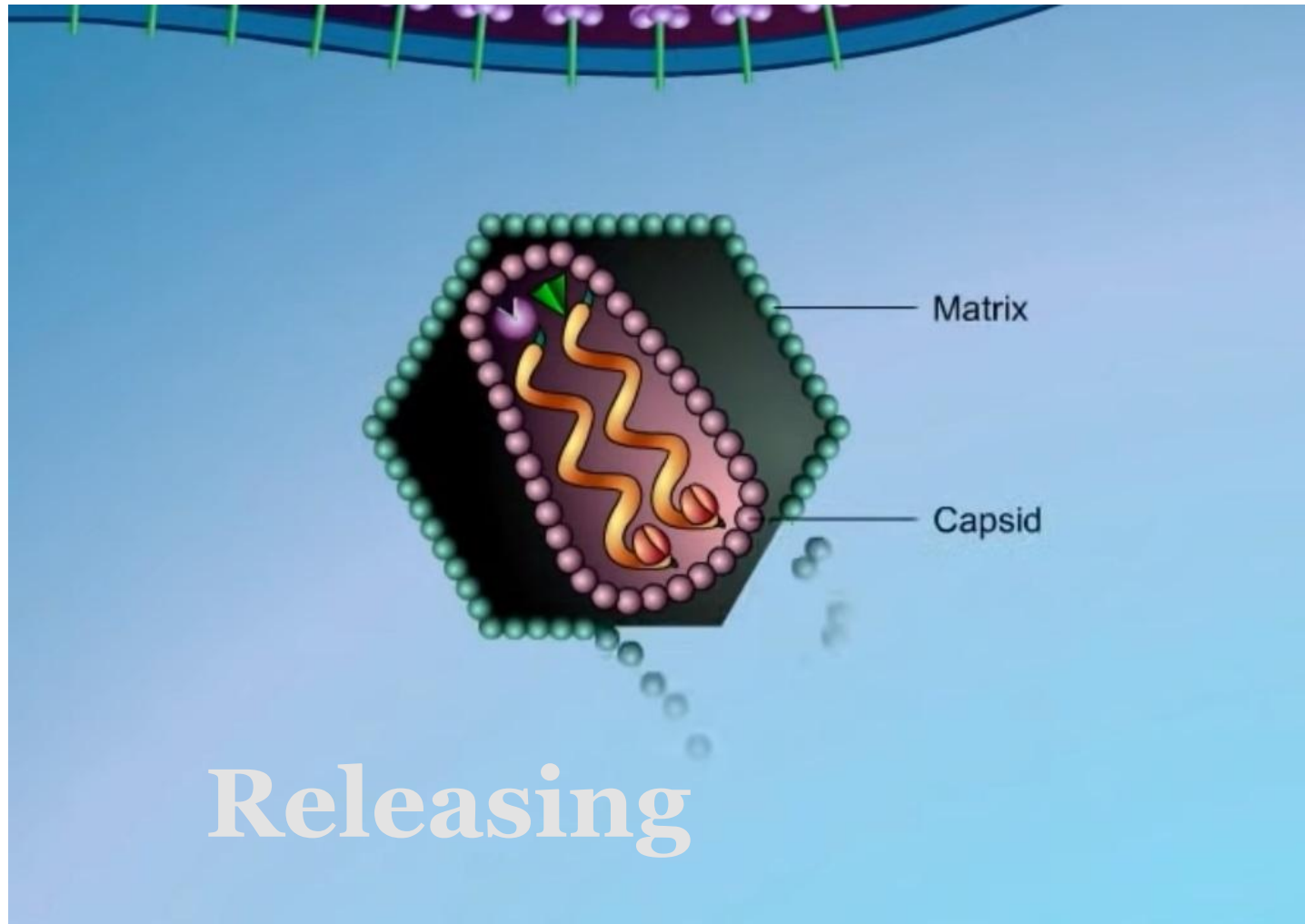
How dose HIV function



How does HIV function

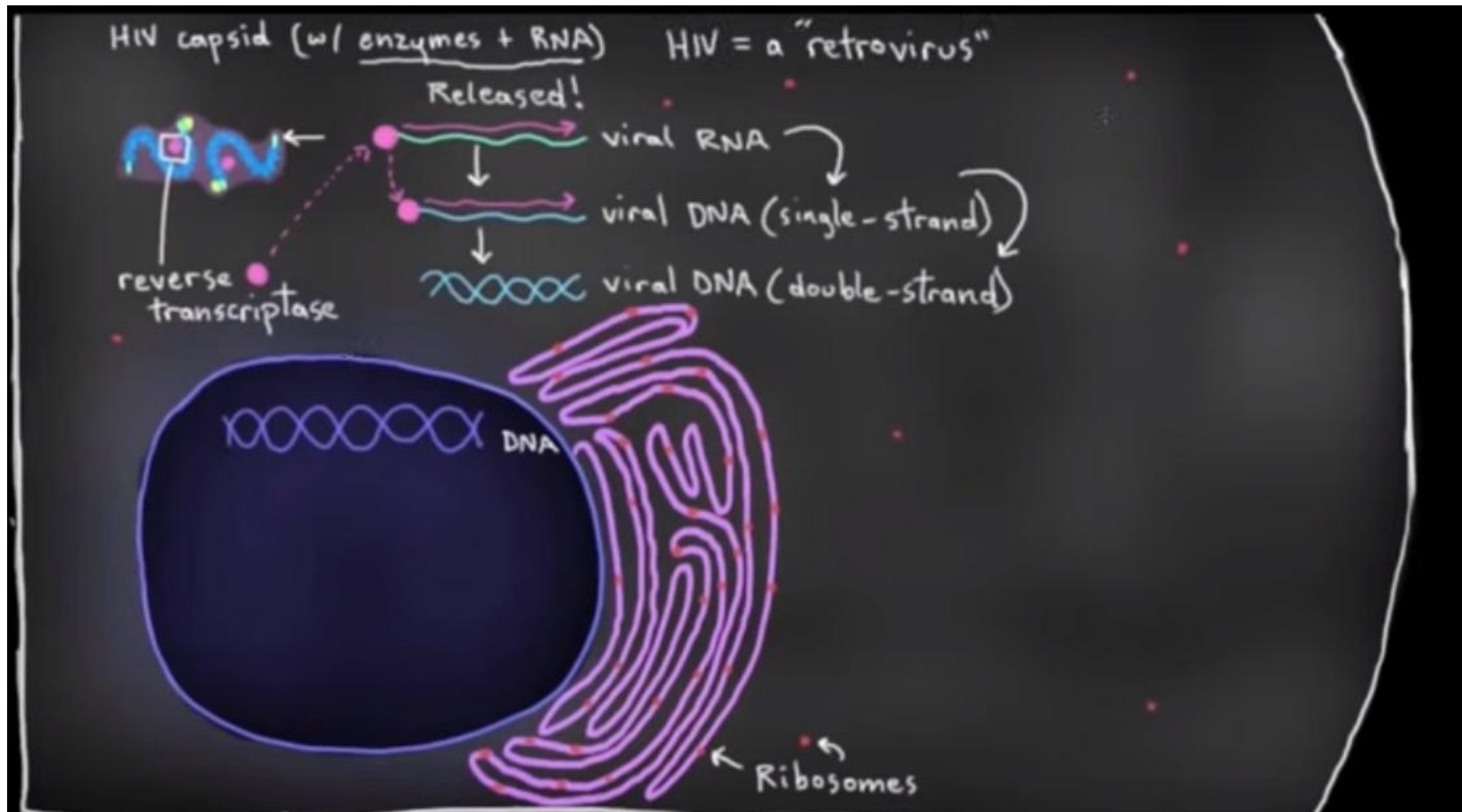


How dose HIV function



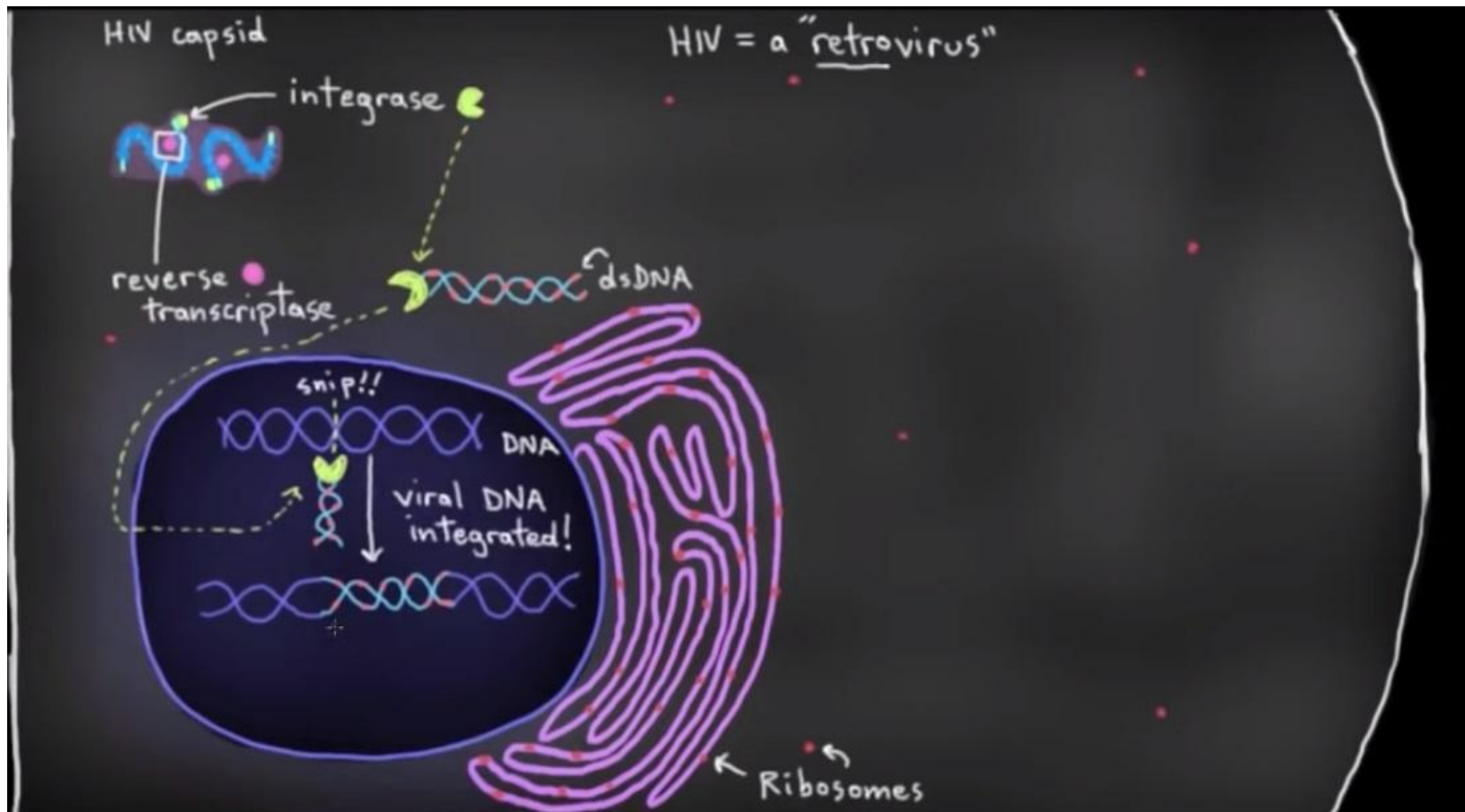
How does HIV function

Transcription viral RNA



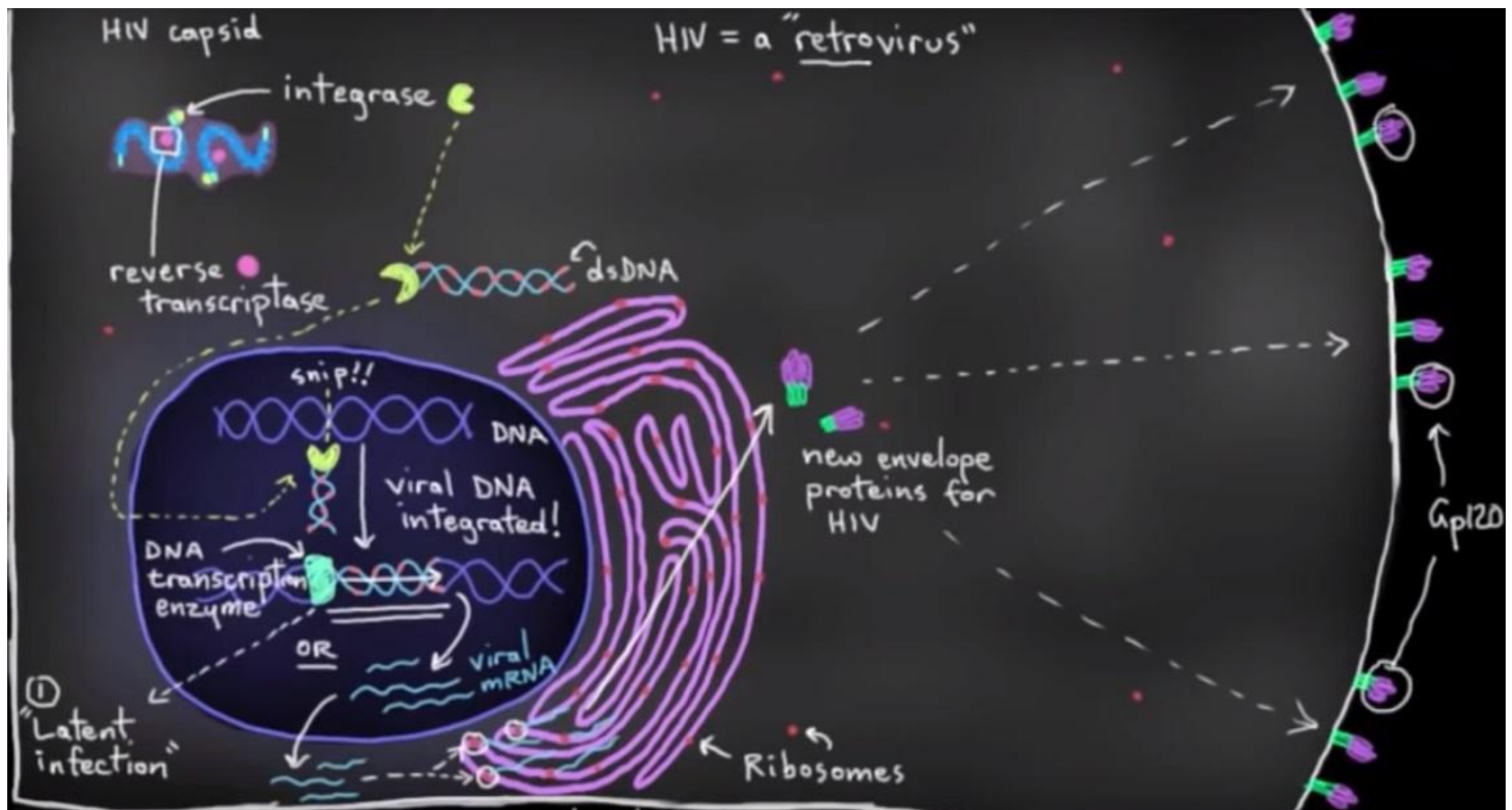
How does HIV function

Enter to the nucleus



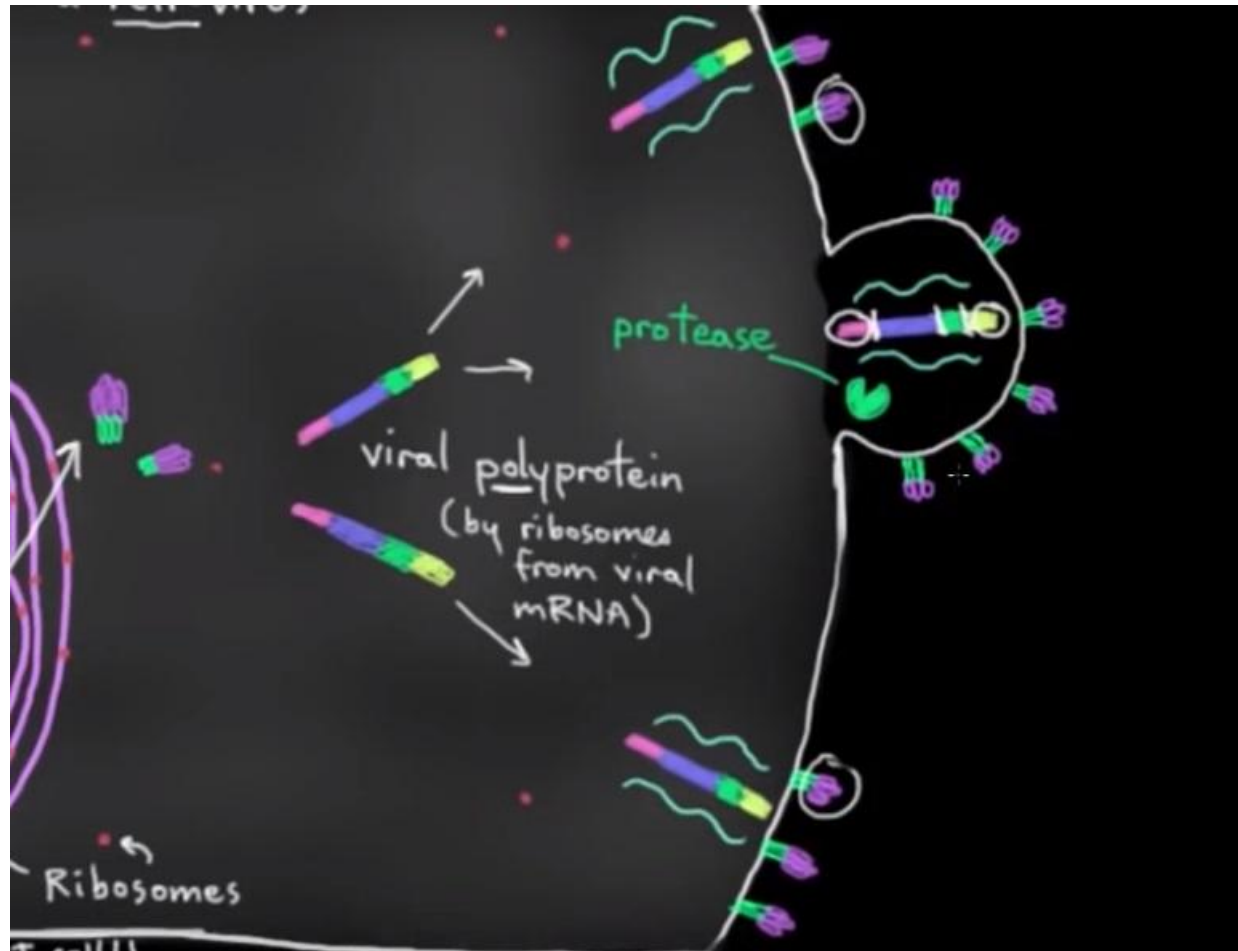
How does HIV function

Transcription DNA

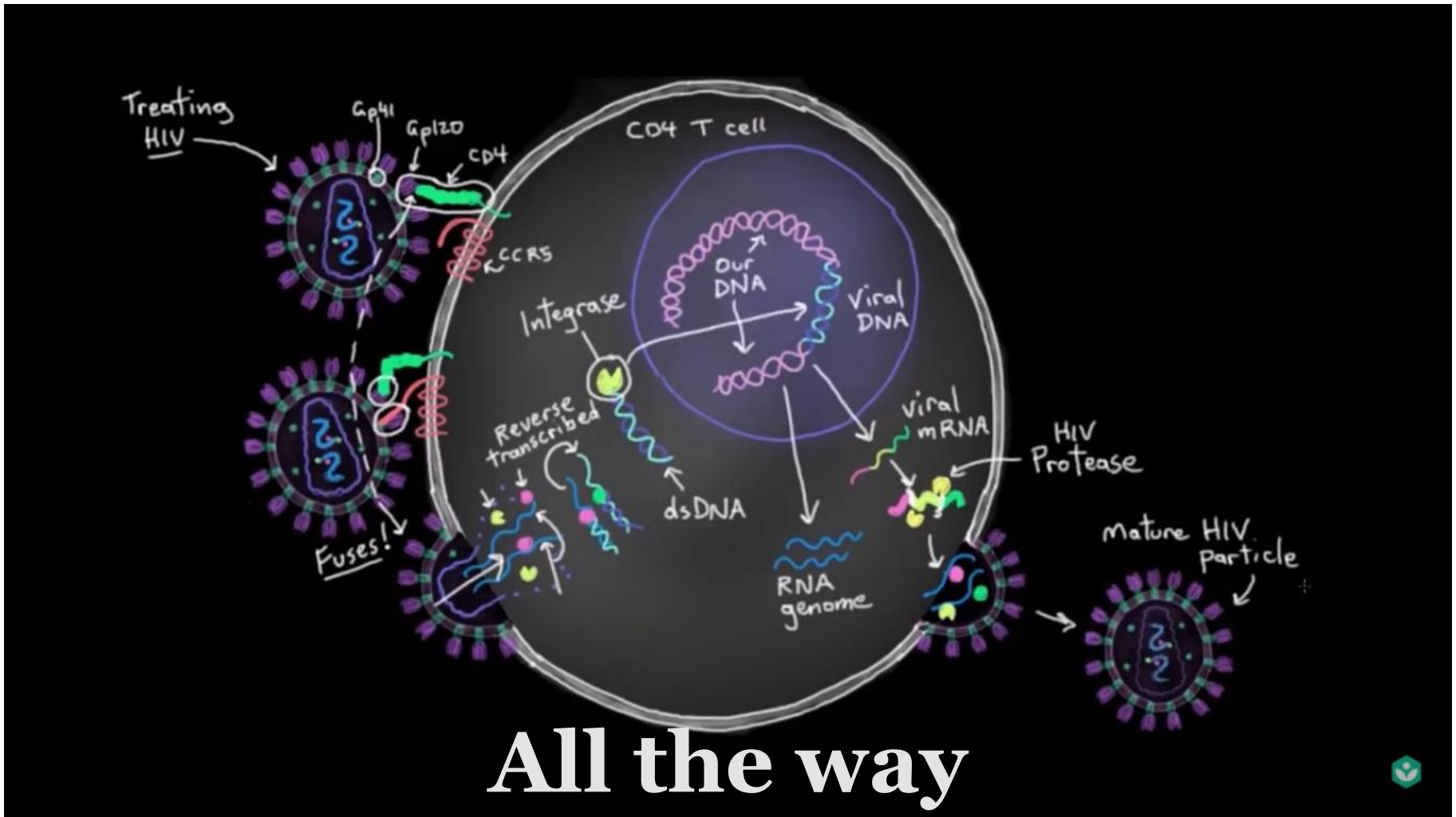


How dose HIV function

Cutting



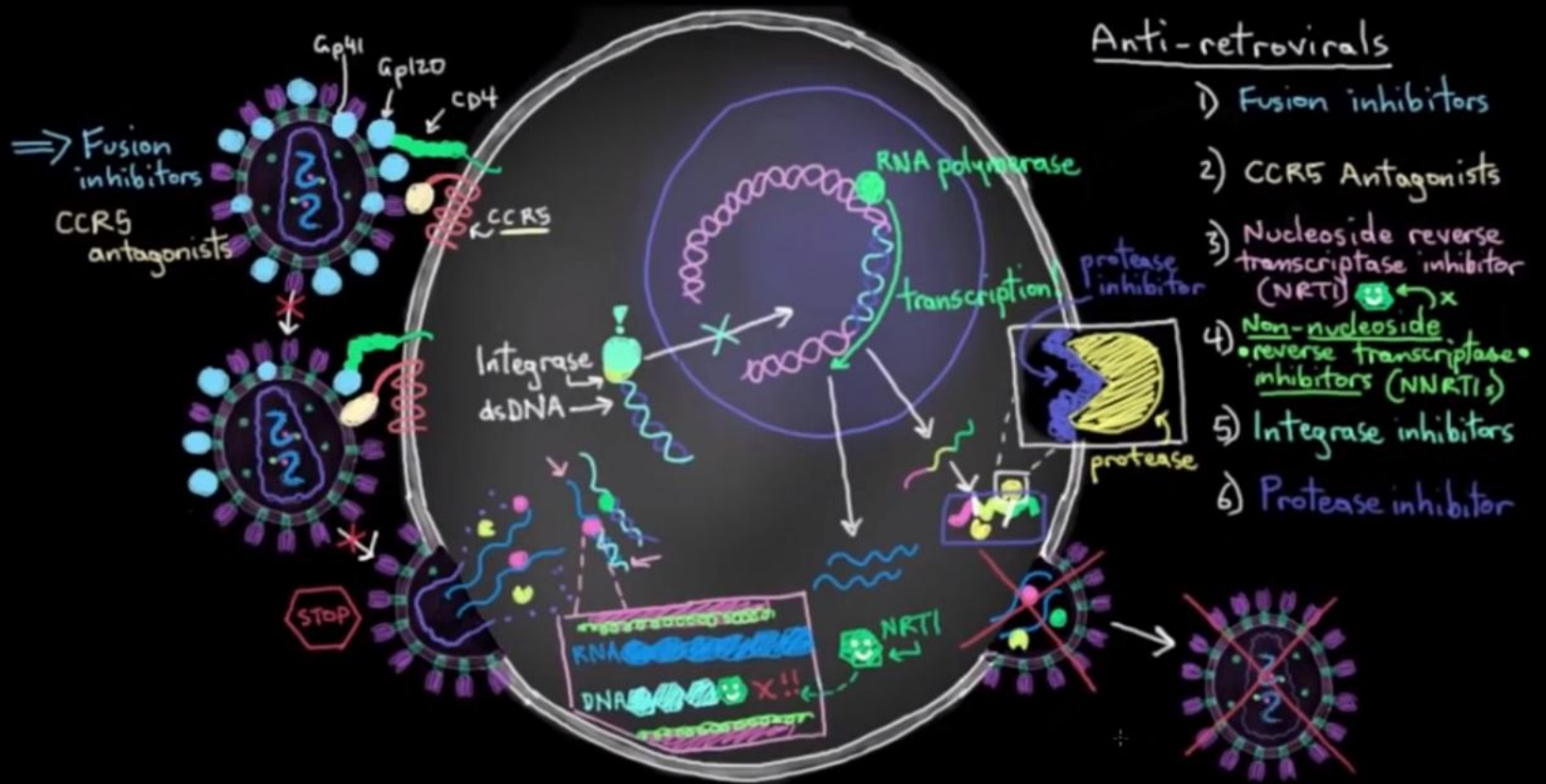
How dose HIV function



All the way

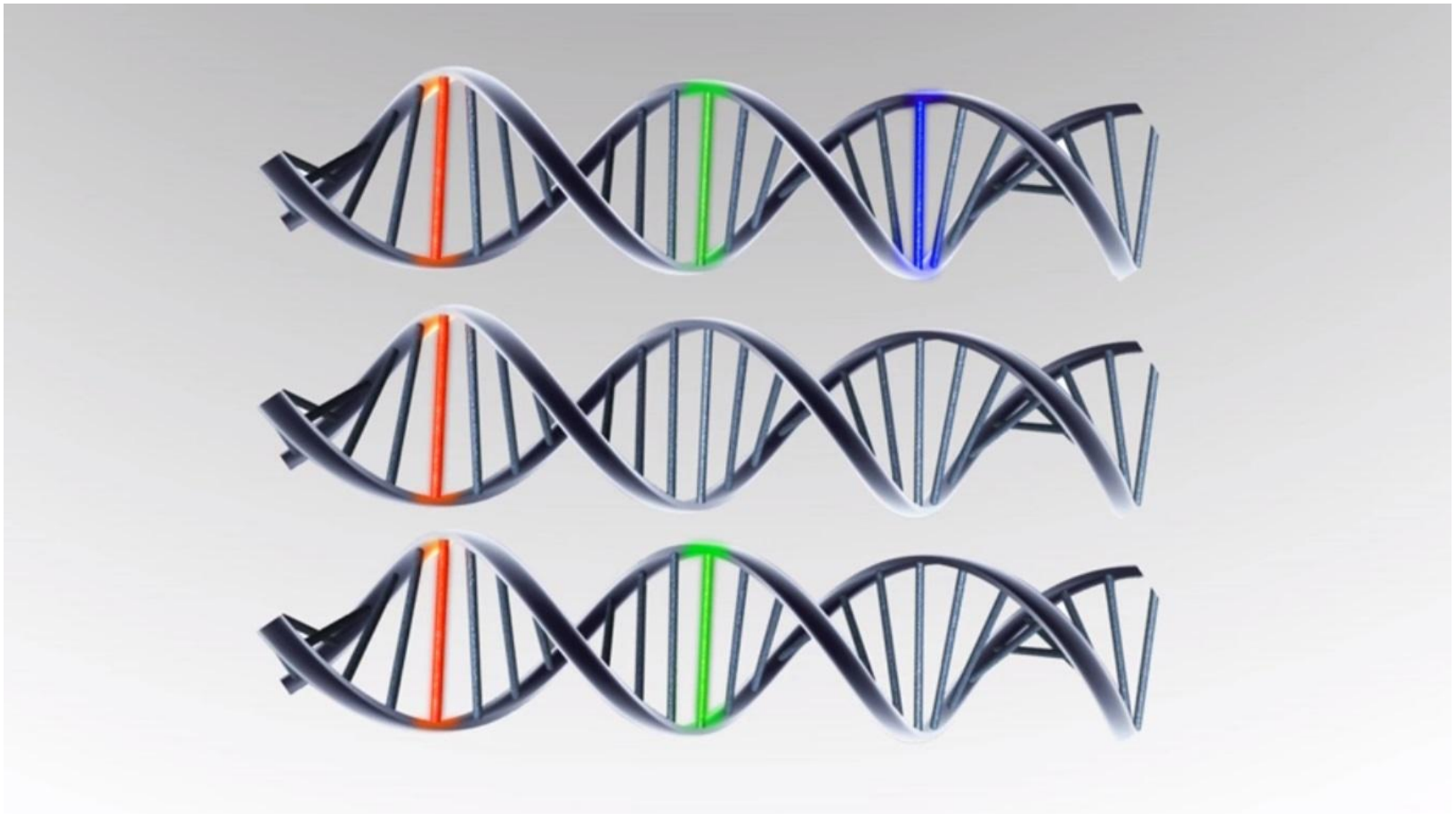


How does anti-retroviral work



Resistance problem

A large number of mutations



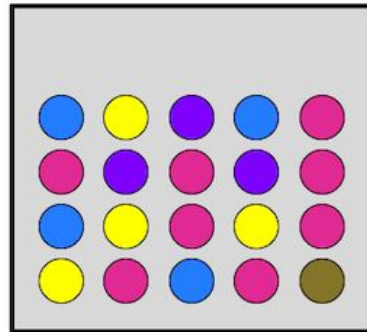
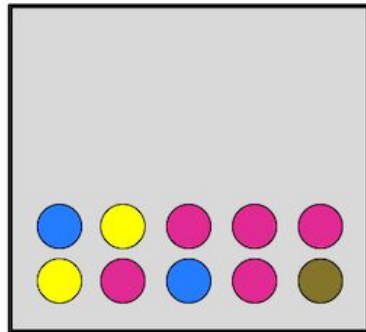
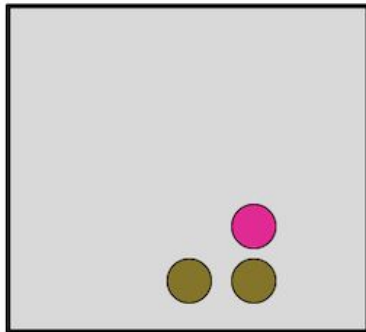
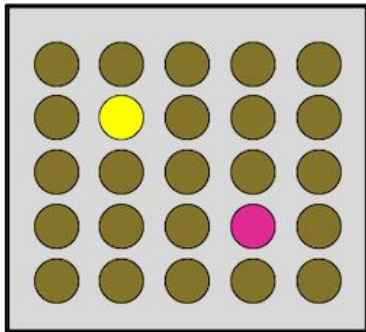
Resistance problem



Pretreatment

Initial Response

Adherence Problems



● ● ● ● ● Wild-Type HIV

● ● ● ● Resistant HIV

List of sources

1. <https://www.youtube.com/watch?v=Zi4Fqc8Fkws> – “How HIV infects us: CD4 (T-helper) lymphocyte infection” - Khan Academy Medicine.
2. <https://www.youtube.com/watch?v=wAfAitV-krc> – «Treating HIV: Antiretroviral Drugs» - Khan Academy Medicine.
3. <https://www.youtube.com/watch?v=8sipX86JfUw&t=26s> – “HIV Life Cycle” - Animated HIV Science
4. https://www.youtube.com/watch?v=5_nX16odmsQ&t=3s – “HIV Resistance: Basics principles” - Aviro Health
5. <https://www.hiv.uw.edu/go/antiretroviral-therapy/evaluation-management-virologic-failure/core-concept/all> - “Evaluation and Management of Virologic Failure” – National HIV curriculum.

Thank you for the attention