

MBD Talk 3 Writeup

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This talk was about the global pandemic of HIV, which currently infects around 35 million people. The bible belt is a hot spot in the US.

The talk started with a biology heavy background on the mechanisms of HIV infection. In particular was how HIV replication is impacted by dozens of miRNA, particular in regards to transcription [1]. The other relevant bit was how HIV exploits the exosome pathway [2]. If anything is blocked in this pathway, than IHIV can't replicate.

References

- [1] Zachary Klase, Laurent Houzet, and Kuan-Teh Jeang. Micrnas and hiv-1: complex interactions. *Journal of Biological Chemistry*, 287(49):40884–40890, 2012.
- [2] Deborah Greene Nguyen, Amy Booth, Stephen J Gould, and James EK Hildreth. Evidence that hiv budding in primary macrophages occurs through the exosome release pathway. *Journal of Biological Chemistry*, 278(52):52347–52354, 2003.