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HIV-1 in the RNA world: Transcription regulation, miRNAs and antiviral RNAs

Harwig, A.

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Stellingen/Statements

1. De complexiteit van het HIV-1 RNA genoom is nog altijd niet volledig doorgrond.

1. The complexity of the HIV-1 RNA genome is still not fully understood.

2. Componenten van het cellulaire RNAi mechanisme worden door HIV-1 gebruikt om de virale transcriptie te reguleren. (Hoofdstuk 2 en 4)

2. Components of the cellular RNAi mechanism are used by HIV-1 to control viral transcription. (Chapter 2 and 4)

3. HIV-1 kan een miRNA maken zonder de virale replicatie te blokkeren door uitsluitend korte RNA transcripten als bron te gebruiken. (Hoofdstuk 5 en 6)

3. By using short RNA transcripts as precursor, HIV-1 can produce a miRNA without impeding virus replication. (Chapter 5 and 6)

4. Het HIV-1 Tat eiwit reguleert de productie van zowel de virale RNAs als het TAR miRNA. (Hoofdstuk 6)

4. The HIV-1 Tat protein controls production of both the viral RNAs and the TAR miRNA (Chapter 6)

5. It is wrong to conclude that something doesn't exist based on the assumption that it cannot be produced. (Whisnant et al., mBio, 2013)

6. AgoshRNA is een veelbelovend molecuul om RNAi te induceren, maar verdere optimalisatie is noodzakelijk voordat het als antiviraal middel gebruikt kan worden. (Hoofdstuk 7-10)

6. AgoshRNA is a promising molecule to induce RNAi, but needs further optimization before it can be used as an antiviral therapy. (Chapter 7-10)

7. Een simpel shRNA construct produceert een grote populatie iets van elkaar verschillende kleine RNAs die allemaal RNAi kunnen induceren. (Hoofdstuk 8)

7. A shRNA construct produces a large population of slightly deviant small RNAs that can all induce RNAi. (Chapter 8)

8. "A common mistake that people make when trying to design something completely foolproof is to underestimate the ingenuity of complete fools." (Douglas Adams)

9. "An inefficient virus kills its host. A clever virus stays with it." (James Lovelock)

10. "Normal is an illusion. What is normal for the spider is chaos for the fly." (Charles Addams)

11. "It's not the beard on the outside that counts, it's the beard on the inside." (Dexters Laboratory)