
Stellingen behorende bij het proefschrift

Post-transcriptional Regulation of Gene Expression by Rod1

1. Rod1 is required for Nonsense-Mediated mRNA Decay in HEK293 cells. (this thesis)
2. Rod1, Upf2 and Upf1 co-regulate hundreds of target genes in HEK293 cells, several of them potential NMD targets. (this thesis)
3. Rod1, Ptbp1 and Raver1 co-regulate alternative splicing events in differentiated MEL cells. (this thesis)
4. Rod1 and Ptbp1 are both predominantly splicing repressors. (this thesis)
5. Ptbp1 is (partially) required for Rod1 binding to RNA. (this thesis)
6. Alternative splicing has contributed to the emergence of complex proteomes (and organisms) from a relatively small genome.
7. It is ironic that the inaccuracy of diverse cellular mechanisms contributes both to the rise of a species and to the demise of the individual.
8. It is remarkable that, as scientists, we try to learn in 'a few' years what cells have 'learned' in billions.
9. Of all the things that exist, perhaps the hardest for scientists to understand is existence itself.
10. A totally blind process can by definition lead to anything; it can even lead to vision itself.
Jacques Monod (1910-1976)
11. "...sempre que um homem sonha, o mundo pula e avança como bola colorida entre as mãos de uma criança."
António Gedeão (1906-1997)

(...everytime a man dreams, the world jumps and moves forward like a coloured ball in the hands of a child)