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New RNA playgrounds : non-coding RNAs and RNA-binding proteins control cellular processes

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Stellingen behorende bij het proefschrift:
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RNA-binding proteins control cellular processes

1. An increase in hTR levels after UV radiation restrains ATR activity and participates in the recovery of cells from the DNA damage response.
(dit proefschrift)
2. Binding of Dead End 1 to messenger RNAs prohibits microRNA action.
(dit proefschrift)
3. Serendipiteit in het lab is evenredig aan entropie op de labtafel.
(dit proefschrift)
4. RNA binding proteins can restore gene expression in the presence of inhibitory miRNAs.
(dit proefschrift)
5. If something can be easily achieved by artificial means, then it is not unlikely that nature will employ a similar mechanism.
(dit proefschrift en: John Mattick, *J Exp. Biol.* 210 (Pt 9):1526-47, 2007)
6. Dead End 1 constitutes a dead end for microRNAs.
(René F. Ketting, *Cell* 131(7):1226-7, 2007)
7. 3' UTRs have expanded greatly during metazoan evolution and in humans occupy over 1% of the genome, accounting for almost as much of the mRNA sequences as the protein-coding sequences themselves.
(Frith *et al.*, *Eur. J. Hum. Genet.* 13: 894-97, 2005)
8. The large numbers of ncRNAs that appear to have a cytoplasmic location suggest that many cellular functions are regulated by such RNAs.
(Cheng *et al.*, *Science* 308 (5725):1149-54, 2005)
9. Research is what I'm doing when I don't know what I'm doing.
(Werner von Braun, 1912-1977)
10. When things are going well, something will go wrong. When things just can't get any worse, they will. Anytime things appear to be going better, you have overlooked something.
(Richard Feynmann, 1918-1988)
11. Anything that can be put in a nutshell should remain there.
(Bertrand Russel, 1872-1970)
12. We're still confused, but on a higher level.
(Enrico Fermi, 1901-1954)