Propositions

Belonging to the thesis

MRI-based stem cell imaging using Gd-nanoparticles

1. As the safety, efficiency and versatility of Gadolinium-liposomes have been established *in vitro* and in *in vivo* animal models, they deserve translational attention in targeted diagnostics or even theragnostics ***(this thesis).***

2. By dazzling simple contrast changes, Gd-liposomes bear the ability to visualize life to the naked "MR-eye" ***(this thesis).***

3. MRI-based detection of compartmentalized Gd is at least as sensitive as that of SPIO, despite the superior intrinsic sensitivity of the latter ***(this thesis).***

4. Cells labelled with relatively small liposomes having a relatively low liposomal Gd content exhibit the highest signal intensity (SI) on MRI ***(this thesis).***

5. *In vivo* MR quantification is a feasible and reproducible tool to study cell fate using Gd-liposomes, but not using SPIO ***(this thesis).***

6. A PhD project involving MRI requires no magnet to shorten a PhD graduate's (total body) relaxation time.

7. The Nobel Prize Committee should acknowledge "doers" instead of "triers". They should start off by finally designating five-fold nominated Mahatma Ghandi as a Laureate posthumously.

8. "No! Try not! DO or DO NOT. There is no try." (*Master Yoda in "Star Wars: The Empire Strikes Back"*).

9. Judgement of children by elementary school teachers is often biased in favor of children from advantaged backgrounds (OECD Review on the Dutch elementary schools, in "*Netherlands 2016: Foundations for the Future, Reviews of National Policies for Education*").

10. Too many propositions distract from the essence of a message. Pythagoras became world-renowned with a single "*stelling*".

11. "I don't count the sit-ups. I only start counting when it starts hurting because they're the only ones that count. That's what makes you a champion." (*Muhammad Ali*)