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 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 “tries”. 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”).


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)