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MRI-based stem cell imaging using Gd-nanocarriers

Publication status and date:

Published: 19/01/2017

Document Version

Other version

Citation for the published version (APA):

Guenoun, J. (2017). *MRI-based stem cell imaging using Gd-nanocarriers*. [Doctoral Thesis, Erasmus University Rotterdam]. Erasmus Universiteit Rotterdam (EUR).

[Link to publication on the EUR Research Information Portal](#)

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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*)