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Propositions

Free radical detection in living cells with relaxometry

Thamir Hamoh

1. Nanodiamonds can be used as a tool to measure free radicals in living cells. [this thesis]
2. Surface modification of FNDs allows to increase the success rate of targeting. [this thesis]
3. Diamond magnetometry allows us to measure the dynamic of free radical generation in real time. [this thesis]
4. During yeast division nanodiamonds can be excreted, transferred to daughter cells, or remain with the mother cells. [this thesis]
5. T_1 measurements reveal the magnetic noise surrounding the NV^- centre.
6. The magnitude and duration of shear stress led to different free radical loads in HUVECs. [this thesis]
7. NOX5 is the prominent source of radical generation in sperm capacitation while the NADH-dependent oxidoreductase of mitochondria seems to play a smaller role. [this thesis]
8. If you think you are too small to make a difference, try sleeping with a mosquito. [Dalai Lama]
9. You can't use an old map to explore a new world. [Albert Einstein]