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Supramolecular host-guest chemistry for applications in theranostics

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Propositions belonging to the dissertation entitled:

SUPRAMOLECULAR HOST-GUEST CHEMISTRY

for applications in theranostics

1. Exploitation of the cellular membrane yields a versatile platform for supramolecular interactions – *This thesis, chapter 2*
2. The attraction between supramolecular host and guest molecules enables in vivo guidance of molecular entities – *This thesis, chapter 3*
3. Substituents on Cy5 fluorophores can be used to (re-)direct interaction with (serum) proteins – *This thesis, chapter 6*
4. The ultimate goal for translational research is to design the best agents and therapeutic strategies that will achieve high efficacy with minimal toxicity – *Erin M Goldblatt and Wen-Hwa Lee, Am J Transl Res. 2010, 2, 1-18*
5. Supramolecular chemistry is the chemistry of the intermolecular bond, covering the structures and functions of the entities formed by association of two or more chemical species – *Jean-Marie Lehn, Ang Chem Int ed. 1988, 27, 89-112*
6. Supramolecular chemistry, the designed chemistry of the intermolecular bond, is rapidly expanding (at) the frontiers of molecular science with physical and biological phenomena – *Jean-Marie Lehn, 1992 Nobel lecture, Chemistry 1981-1990, Singapore: world scientific publishing, page 446.*
7. Nature: few scientists acquainted with the chemistry of biological systems at the molecular level can avoid being inspired – *Donald J Cram (1919-2001)*
8. Although a chemist is able to change the chemical reactivity of molecules and the way such molecules interact, the products of the reaction may not necessarily be the ones desired – *S. Sevim, A. Sorrenti, C. Franco et al., Chem Soc Rev. 2018, 47, 3788-3803*
9. Never underestimate the power of musing as 'the imagination has made more discoveries than the eye' – *Joseph Joubert (1754-1824)*
10. When science is laborious, it is good to remember that 'It does not matter how slowly you go as long as you do not stop' – *Confucius (555 v.C.-479 v.C.)*