

University of Groningen

Targeted diazotransfer to proteins

Lohse, Jonas

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STELLINGEN

Behorende bij het proefschrift

Targeted Diazotransfer to Proteins

Jonas Lohse

1. Propositions (Stellingen) not only legitimise a small peak out of the ivory tower, but also help to justify the title “philosophical doctor”.
Bosch, G. Train PhD students to be thinkers not just specialists. *Nature* **554**, 277–277 (2018).
2. The remarkable synthetic molecular motors were inspired by fascinating rotary machines found in nature; lesser known is the same coherence for the molecular knot.
(C-terminal fold of Carbonic anhydrase II, chapter 4)
3. The Sharpless-Meldal reaction seems to be an interface with endless possibilities.
4. Every scientist should contemplate the old Hen-Egg quandary carefully. This pondering comes in handy, especially in the context of writing a scientific manuscript.
Whitesides, G. M. Whitesides’ Group: Writing a Paper. *Adv. Mater.* **16**, 1375–1377 (2004).
Whitesides, G. M. Curiosity and Science. *Angew. Chem. Int. Ed.* **57**, 4126–4129 (2018).
5. Successful computer-aided drug design requires hands-on knowledge of protein structure elucidation.
6. For her visionary approach and her perpetually innovative contribution to interdisciplinary research, Carolyn Bertozzi should be awarded with the Nobel Prize in Chemistry.
7. *Homo investigans* != *Homo oeconomicus*.
8. Despite the recent seminal advances, mass spectrometry is still out-performed by fluorescence when it comes to protein quantification both in terms of reproducibility and from an economic standpoint. (This thesis)
9. Our society as a whole would largely benefit if the research of, for instance, Theunis Piersma was evenly-well funded as that of Ben Feringa.
10. The properties of proteins are generally the central object under investigation, yet the specific reactivity of the protein can also provide insight into the mechanism of the molecular probes used as tools. (Chapter 4)

11. Using synthetic chemistry to study the emergence of life is important and several ground-breaking advances have been observed recently, but the assumption that these findings can already explain the emergence and propagation of life on our planet stands in discordance with the enormous complexity, depth and beauty of the living world today.

12. Not giving room to opposition or controversial thought in the context of a university due to time constraint and public image degrades the highest academic institution merely to a brand or a factory – a trend which jeopardises the underlying ideas of democracy and academic freedom.