

## University of Groningen

### Peptides in motion

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# Stellingen

Behorende bij het proefschrift

## Peptides in motion

Claudia Poloni

1. Research that has no direct application, and is driven only by the curiosity about Nature, should be seen as equally important as the directly applicable one and it should be publishable without the need to justify the usefulness.
2. Besides showing the table of signal assignments, the presentation (e.g. in the supporting Information) of the original 1D and 2D NMR spectra, used to assign the signals to the protons in complex peptides, should be obligatory. Without this data, it is impossible to judge the quality of both the assignment and the peptide.  
*S.-L. Dong, M. Löweneck, T. E. Schrader, W. J. Schreier, W. Zinth, L. Moroder, C. Renner, Chem. Eur. J., 2006, 12, 1114.*
3. Molecular motors could become good light-controlled elements for photoregulating peptide structure and function. Their application is, however, limited by low stability during synthesis and very low water solubility. (Chapters 4 and 5 of this thesis)
4. For the analysis of the binding of peptides and DNA, fluorescence displacement assay is a much simpler and high-throughput technique than isothermal titration calorimetry. (Chapter 6 of this thesis)  
*H. Y. Kuchelmeister, S. Karczewski, A. Gutschmidt, S. Knauer, C. Schmuck, Angew. Chem. Int. Ed., 2013, 52, 14016.*
5. Scientists should not defend the use of animals in scientific experiments. Instead, they should actively try to find alternative methods for animal use in science.
6. The good taste of the meat doesn't justify the person who eats meat. Being vegetarian is an ethical choice and a sign of respect for animals.
7. A PhD school should have a system to guide post-graduate students during the entire period of their PhD in finding their future jobs and contacts both in academia and industry.
8. Pregnancy leaves should be given to both parents.
9. European Union should not represent an external entity for all the European countries. European Union should be one country that protects the multicultural differences that are present.