Discovery of Inhibitors by Combinatorial-Chemistry Approaches

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Stellingen

behorende bij het proefschrift

Discovery of Inhibitors by Combinatorial-Chemistry Approaches

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1. It is unacceptable that compounds are claimed to be pure only based on HPLC analysis, without showing properly studied ^{1}H- and ^{13}C-NMR spectra.
   A. C. Galasiti Kankanamalage *et al.*, *Eur. J. Med. Chem.*, **2018**, *150*, 334

2. NMR spectra of acylhydrazones are easily misinterpreted. Everyone working with acylhydrazones should be very careful in assigning ^{1}H-NMR spectra, as they are not simply *E*- and *Z*-isomers.
   This thesis and A. B. Lopes *et al.*, *Molecules*, **2013**, *18*, 11683

3. Docking of (potential) inhibitors is a valuable tool to get inspiration or develop a hypothesis. However, one should be very careful as you can easily fool yourself (and others).

4. In contrast to comparing peaks or peak areas, analyzing the normalized change in area and relative peak area (RPA) should be standard in the Dynamic Combinatorial Chemistry field.
   Chapter 5 of this thesis

5. The goal of a PhD student should not be to get a publication as soon as possible, but to learn, develop yourself and perform good research.

6. Quantitative ^{1}H-NMR is the perfect method to determine purity.
   G. F. Pauli *et al.*, *J. Med. Chem.*, **2014**, *57*, 9220

7. We should drastically limit the amount of packaging and single-use plastics.