Activity-based proteasome profiling

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Stellingen

Behorende bij het proefschrift

Acitivity-based proteasome profiling

1. Eukaryotes can not survive without the ubiquitin proteasome system.
Borissenko, L. & Groll, M. Chem. Rev. **2007**, 107, 687–717
Chapter 1, this thesis

2. Activity-based protein profiling appears restricted to hydrolytic enzymes only, and of these predominantly enzymes employing an active-site nucleophile.
Cravatt, B.F. et al. Annu. Rev. Biochem. **2008**, 77, 383-414
Chapter 2, this thesis

3. Fluorogenic substrates do not discriminate between different proteasome species.
Chapter 3, this thesis

4. There is no such thing as a bioorthogonal reaction.
Sletten, E.M. & Bertozzi, C.R. Acc. Chem. Res. **2011**, 44, 666-676
Chapter 4, this thesis

5. Proteasomes are ubiquitously expressed, yet can be targeted for clinical treatment of multiple myeloma.
Chapter 5, this thesis

6. Enhancement, and not mutations, of proteasome activities may be behind bortezomib resistance strategies of myeloma cells.
Oerlemans, R. et al. Blood **2008**, 112, 2489-2499
Chapter 5, this thesis

7. Though ubiquitin is regarded as the cellular kiss of death, not all kissed proteins are doomed.
Finley, D. Annu. Rev. Biochem. **2009**, 78, 477-513

8. The philosophy of science is to learn the rules from nature.

9. Impossible is nothing to a willing and patient heart.