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## Bioorthogonal Antigens

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## Propositions (Stellingen)

Behorende bij het proefschrift

### Bioorthogonal Antigens

1. T cell response to peptide epitopes is near homeopathic (Lysis by certain T cells requires 1-10 ligands per target).  
Irvine, D.J. *et al.* Nature. 2002, 419: 845-849
2. Antigen cross-presentation is a Frankensteinian amalgam of parts stolen from other cellular processes.  
Lin, M.L. *et al.* Immunol. Cell. Biol. 2008, 86(4): 353-62  
Blum, J.S. *et al.* Annu. Rev. Immunol. 2013, 31: 443-73
3. The efficiency of bioorthogonal chemistry is limited by non-covalent background interactions, even if the reaction itself is quantitative and fully selective.  
Sletten, E.M. *et al.* Acc. Chem. Res. 2011, 44(9): 666-676  
Best, M.D. Biochemistry. 2009, 48(28): 6571-84  
Dit proefschrift
4. Chemical peptide epitope detection should be as sensitive as that performed by a T cell.  
Porgador, A. *et al.* Immunity. 1997, 6(6): 715-26  
Dit proefschrift
5. Bioorthogonal antigens may present the key to unlocking the black box between early antigen uptake and the endpoint of cross-presentation.  
Dit proefschrift
6. Copper and bioorthogonality: still necessary evils.  
Prescher, J.A. *et al.* Nat. Chem. Biol. 2005, 1(1): 13-21  
Dit proefschrift
7. The field of cross-presentation is like soccer: competition between research teams with rivalrous supporters that hate each other's guts.  
Vyas, J.M. *et al.* Nat. rev. Immunol. 2008, 8(8): 607-18
8. The price of a fluorophore bears no correlation to the complexity of its synthesis.
9. The Eastern European temperament, while with a short fuse, produces much noise, but leaves no lasting damage.
10. Being the first PhD student of a young and ambitious tenure track group leader puts one in the awkward position of being at once an equal sparring partner and a minion.