Discovery and engineering of enzymes for chemoenzymatic peptide synthesis

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PROPOSITIONS

Accompanying the thesis:

Discovery and engineering of enzymes for chemoenzymatic peptide synthesis

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- The thermostability of an enzyme, regardless of its origin, either nature or nurture, should be exploited during its purification.
- In many scientific papers, the term "organic solvent tolerance" should be replaced by "cosolvent tolerance".
- Cheap gene synthesis renders plasmid storage as glycerol stocks obsolete.
- Maximizing the benefits of biocatalysis requires optimizing reaction conditions and, more importantly, biocatalyst optimization (Chem. Soc. Rev., 2012, 41, 1585-1605).
- Easy access to diversified enzyme collections will ensure that biocatalytic steps become integral parts of synthetic chemistry.
- Peptiligase is the key to innovative cost – efficient peptide synthesis (Chapter 7).
- Many ideas, just like some enzymes, need a long time to crystallize.
- For social capital to thrive in the Netherlands, it is essential to speak both English and Dutch.
- Croatian language can correctly define a biochemist ("biokemičar") as a person who was ("bio") a chemist ("kemičar") in the past.