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Exploiting Catalytic Promiscuity for Biocatalysis

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Document Version

Publisher's PDF, also known as Version of record

Publication date:
2015

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Miao, Y. (2015). *Exploiting Catalytic Promiscuity for Biocatalysis: Carbon-Carbon Bond Formation by a Proline-Based Tautomerase*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen.

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Stellingen

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Exploiting Catalytic Promiscuity for Biocatalysis

Carbon-Carbon Bond Formation by a Proline-Based Tautomerase

van Yufeng Miao

1. Enzyme promiscuity is an important source for discovering new enzyme activities for organic synthesis. (this thesis)
2. Most of the catalytically promiscuous activities were discovered by random screening. However, the promiscuous activities of 4-OT for C-C bond formation were discovered by an envisioned catalytic mechanism. (this thesis)
3. Rational design of new enzyme activities is somewhat similar to computational enzyme design, the only difference is that all the transition state calculations and docking simulations were done by you instead of computer. (my view)
4. Good knowledge of organic chemistry would certainly help a lot in discovering new enzyme activities for synthetically useful reactions. (this thesis)
5. Biocatalysis plays an important role in developing green chemistry processes. However, only green is not enough, it needs to be better. (Master-class in Applied Biocatalysis, Groningen, 2012)
6. There are no good or bad choices, as you will only know the consequences of the one that you have chosen. (my view)
7. You should always close a door before opening another when it comes to research. (my view)
8. If we knew what it was we were doing, it would not be called research, would it? (Albert Einstein)
9. Every time when I publish a paper, my wife delivers a baby, until 2014.
10. Luck is part of your strength. (my view)
11. Life is a journey meant to be experienced in full. (my view)