

University of Groningen

## Exploring the cofactor-binding and biocatalytic properties of flavin-containing enzymes

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# Stellingen

Accompanying the thesis

“Exploring the cofactor-binding and biocatalytic properties of flavin-containing enzymes”

Małgorzata M. Kopacz

1. The most intriguing question regarding putrescine oxidases is the reason why they bind ADP (chapter 3).
2. It is well known that flavoproteins show amazing biochemical versatility, which hinders the design of generic approaches for their engineering (chapter 3 and 4).
3. The bicovalent flavin binding sequence motif will facilitate the discovery of new interesting biocatalysts (chapter 4).
4. Although a methyl group does not normally exchange protons with solvent, a proper electron sink may in some cases promote such exchange (chapter 5).
5. “The right understanding of any matter and a misunderstanding of the same matter do not wholly exclude each other” (“The Trial”, Franz Kafka). The absurdity described in the novel is a very good representation of what bursary PhD students have to deal with.
6. Einstein’s theory of relativity can be somewhat exemplified by the Dutch railway. The travel distance from Groningen to Amsterdam seems not the same as that from Amsterdam to Groningen.
7. The Netherlands is considered as one of the most developed and richest countries in the world, but this is not reflected in the food variety readily found in the supermarkets.