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Exploring deazaflavoenzymes as biocatalysts

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Propositions

Accompanying the thesis

Exploring deazaflavoenzymes as biocatalysts

By Hemant Kumar

1. The commercial unavailability of cofactor F_{420} is one of the major factors for limited research on F_{420} -dependent enzymes.
2. Ancestral sequence reconstruction (ASR) can be used to improve thermostability of enzymes (Chapter 4).
3. Since cofactor F_{420} serves as a coenzyme but not as prosthetic group, F_{420} -dependent enzymes do not suffer from irreversible flavin loss.
4. Reporting a temperature as “room temperature” should be prevented because a room can have many temperatures.
5. A book named “How to convince your manuscript reviewers when they don’t seem to be the expert in the area” will have quite some buyers.
6. Development of the Dutch dairy industry (Ham et al, 2010) correlates well with the average height of the Dutch people.