

Spiraling Towards Understanding In Vitro Min Protein Surface Patterns

Meindlhumer, S.

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Propositions

Sabrina Christina Michaela Meindlhumer

1. The mechanism for pattern formation by Min proteins is still unresolved. (This Thesis)
2. Any description of Min protein surface patterns is incomplete without including their time evolution. (This Thesis, Chapter 4)
3. The design flexibility offered by DNA oligomers can be used to systematically study pattern formation. (This Thesis, Chapter 5)
4. The multidimensional parameter space for pattern formation is generally dilute. (This Thesis, Chapter 5)
5. It should be possible to build a synthetic cell without understanding every mechanistic detail of the components.
6. Openly available software tools for standardized analysis should be an integral part of any research field.
7. A low-impact paper that makes all data publicly available is preferable over a high-impact paper that makes data only available upon request.
8. Many scientists tie their self-esteem to their research output, leading to a high risk of compromised mental health.
9. It is a sign of ignorance if academic scientists express generalized negative attitudes about industry as a workplace.
10. Canteens at public institutions such as universities should provide primarily vegetarian meals.

These propositions are regarded as opposable and defensible, and have been approved as such by the promotor Prof. dr. C. Dekker.