

Understanding protein complex formation: the role of charge distribution in the encounter complex

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Stellingen:

Behorende bij het proefshrijft:

Understanding protein complex formation: The role of charge distribution in the encounter complex

- 1. In presence of the wild type charges in the binding site of CcP, the overall charge of the protein surface is more important than the specific distribution of the charges. (Chapter 3 and 4)
- 2. The encounter complex has a critical role not only for the first steps of protein complex formation but for the final activity of the complex. (Chapter 3, 4 and 5)
- 3. The balance between stereospecific and encounter complex affects the activity of the protein complex. (Chapter 5)
- 4. EPR measurements are to be preferred over mass spectrometry to determine the efficiency of the paramagnetic tagging of a protein.
- 5. "Optimized by evolution" does not mean perfect.
- 6. A paramagnetic tag is like the objective of a camera: its mobility and orientation strongly affect the final picture.
- 7. The mutation of a single charged residue can be enough to reverse the balance between stereospecific and encounter complex.
- 8. There is not such a thing as a "boring protein".
- 9. As long as science will be elitist, ignorance will be louder.
- 10. Living abroad is the best way to know your own culture.