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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.