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PROPOSITIONS

belonging to the thesis

On the membrane transport mechanism of zinc ions by ZntB

by

Artem Stetsenko

- 1. The 2-TM-GxN family consists of both channels and transporters (Chapter 2, 3 and 4).
- 2. ZntB is a zinc ion importer, driven by a proton gradient (Chapter 2 and 3).
- 3. ZntB is a stable symmetrical pentamer in the apo-state in contrast to CorA (Chapter 2).
- 4. Amino acid Glu253 in ZntB is most likely responsible for proton coupling (Chapter 3).
- 5. CorA can transport the same ions as ZntB with similar K_m values (Chapter 4).
- 6. n-Dodecyl-β-D-maltopyranoside (DDM) is the most commonly used detergent for solubilization of membrane proteins and further studies (Chapter 5).
- 7. Sometimes, reviews with the general information are more valuable to scientific community than detailed long-term research (Chapter 5).
- 8. Our world has more and more information, and less and less meaning. Inspired by Jean Baudrillard