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PROPOSITIONS
Belonging to the thesis

DNAJ proteins: more than just “co-chaperones”

by
Vaishali Kakkar

1. The existence of different “barcodes” for the rescue of specific aggregation diseases suggests that, although loss of protein homeostasis with aging might be a general mechanism responsible for disease initiation, boosting a particular type of chaperone may or may not be able to significantly reduce the onset of a particular disease phenotype. **this thesis**
2. Due to its dual mode of action either as a canonical co-chaperone (dependent on Hsp70) or as non-canonical inhibitor of peptide aggregation (independent of Hsp70), DNAJB6 can be a promising therapeutic target for protein aggregation diseases. **this thesis**
3. The downstream targets of insulin signaling i.e. HSF-1 and DAF-16, regulate opposing aggregation activities to promote cellular survival in response to constitutive toxic protein aggregation, implying not all aggregates are alike. **Cohen et al., Science, 2006**
4. Understanding the role of molecular chaperones is important for understanding protein sequence evolution to achieve a much-needed integrated knowledge of protein and proteome evolution. Weak chaperone dependence promotes non-conservative mutation and hence more strongly promotes protein evolution. **Pechmann et al., PloS Computational Biology, 2014**
5. “I have yet to see any problem in science, however complicated, which, when you looked at it the right way, did not become still more complicated.” **Paul Anderson (in “New Scientist”, 25 Sept 1969)**
6. **Khalil Gibran, Lebanese-American poet** once said, “A wise teacher does not bid you to enter the house of his wisdom but rather leads you to the threshold of your mind.” Lucky I am, I experienced such supervision in my career.
7. As a kid I learnt, “**every problem has a solution**”. As a PhD student I learnt, “**Every solution gives rise to new problems**”. I never knew fun lies in finding those problems and I am officially happy being a trouble maker!
8. I always thought I enjoyed writing until the reality of the PhD thesis hit me.
9. Either you give in to the bad luck that made you “almost” die or you celebrate the good luck which saved you from that “almost” death. Life is all about choosing how to act and being positive is always the right choice.
10. Walk with hope in your heart and you will never walk alone! **Shahrukh Khan, actor.**
11. “Dream is not that which you see while sleeping, it is something that does not let you sleep.” **APJ Abdul Kalam, nuclear scientist & former President of India.**