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Regulation of protein homeostasis in acute and chronic stress

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Stellingen behorende bij het proefschrift

“Regulation of protein homeostasis in acute and chronic stress” - Di Wu

1. The small heat shock protein HSPB7 reduces aggregation of polyglutamine-containing proteins (this thesis), likely by preventing small aggregates to merge into large inclusions. Optical pulse labeling (Nature Chemical Biology 9 (2013) 586 – 592) would be a good approach to further test this concept
2. The term “stress” should no longer be used without appropriate definition because even different stresses on the protein homeostasis already require different cellular defense systems (this thesis).
3. Whereas the insulin growth factor-2 (IGF2) plays a role in reducing aggregation of polyglutamine proteins (this thesis), its direct targeting may not be suitable for therapeutic purposes. Identification of crucial downstream effectors in the IGF2 is therefore required.
4. In addition to protein chaperones which are important for protein quality control, RNA chaperones can be crucial in protein aggregation diseases (this thesis).
5. Specific structures are not the only determinants for protein function: intrinsically disordered region (IDR) also can play key roles herein (Nat Rev Mol Cell Biol. 2015 Jan;16(1):18-29 and this thesis).
6. Excluding the effects of inactivated ribosomes is essential in ribosome profiling experiments (Cell Reports 25 (2018) 1097-1108).
7. Science is much more than discovering. It is an integrated art of imagination, experimentation and presentation, requiring precision and perfection.
8. You cannot keep a cake and eat it. What to keep, what to eat, it’s the choice you have to make.
9. The beauty is to try, but the point is to survive.
10. Ambition is useless if without action.
11. 欲(yu)练(lian)此(ci)功(gong), 必(bi)先(xian)自(zi)宫(gong). Dedication brings success.