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DNAJB6 and its substrates: connecting the dots

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Stellingen

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DNAJB6 and its substrates: connecting the dots

Els Kuiper

1. The unstructured nature of DNAJB6 makes it a Swiss army knife in the HSP70 machinery. ~ This thesis
2. Since there is no sequence dependency for proteins to adopt an amyloid conformation, all proteins have the ability to transition into an amyloid fold under the right conditions (Fändrich & Dobson, *EMBO J*, 2002). Therefore, all proteins are potential substrates of the molecular chaperone DNAJB6.
~ This thesis
3. As our existence is possibly based on dynamic liquids (Oparin, *The Origin of Life*, 1938), it would seem only logical that, as organisms became more complex, a system evolved to maintain them.
4. With the impressive technological advancements in artificial intelligence, protein structures and complex interactions can be very accurately predicted (Jumper et al., *Nature*, 2021). Taken into account Moore's law on exponential growth of processing power (Moore, *Electronics*, 1965), accurate modelling of the interior of an entire cell should be possible in a few years.
5. By combining our limitless imagination with the incredible adaptive power of single cell organisms like bacteria, the tools created from them will keep on revolutionising science and society.
6. When you want to be able to celebrate small successes in molecular biology: start cloning.
7. Seeming effortless is achieved only by putting a tremendous amount of effort. Or, as Ovid so adequately stated: 'Ars adeo latet arte sua'. ~ *Metamorphoses* 10.252, 8 AD.
8. Imposter syndrome: this thesis has you fooled again.
~ Pauline Clance & Suzanne Imes, *Psychotherapy Theory, Research and Practice*, 1978.
9. "The heart of science is feminine. In its essence, science has very little to do with competition, control, separation - all qualities that have come to be associated with science in its male-dominated, twentieth-century form. The science I have come to know and love is unifying, spontaneous, intuitive, caring - a process more akin to surrender than to domination." ~ Candace B. Pert, *Molecules of Emotion*, 1997.
10. "When you eliminate the impossible, whatever remains, however improbable, must be the truth."
~ Sherlock Holmes & Spock.
11. "Teeg'n aan zain is aarger als doun." ~ Opa Jan.