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Chaperones, protein homeostasis & protein aggregation diseases

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2014

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Minoia, M. (2014). *Chaperones, protein homeostasis & protein aggregation diseases*. s.n.

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Stellingen

Chaperones, Protein Homeostasis & Protein aggregation diseases

by

Melania Minoia

- “The existence of different ‘barcodes’ for the rescue of specific aggregation diseases suggests that, although loss of protein homeostasis with aging might contribute to disease initiation, boosting HSF-1 activity will generally be insufficient for long- term protection in most dominantly inherited proteinopathies” (Chapter 2; Kakkar V, Meister-Broekema M, Minoia M, Carra S, Kampinga HH. (2014) *Dis Model Mech* 7: 421–434).
- Like a puppeteer controls its puppets, BAGs play with Hsp70s to control protein homeostasis. (Chapter 3).
- Polyglutamine proteins act like sniper-killers: silently present for a long time and without alerting the cellular stress response, they suddenly strike with rapidly firing aggregates. (Chapter 7).
- A disorder that cannot be scientifically explained is often not considered a real disease and therefore underestimated. Eating disorders have the highest mortality rate of all mental disorders (Sullivan, PF. *American Journal of Psychiatry*, Vol. 152 ;7, July 1995). Fortunately, recent data have revealed that patients with eating disorders show structural and functional alterations in specific affected areas of the brain, in particular in the insula and frontal cortex areas (Frank GK, et al., *Am J Psychiatry*. 2013). People with eating disorders can therefore now be considered as seriously ill and not just as people lacking a strong will.
- According to *Business Insider*, in terms of “best quality of life”, Sweden ranks at 2nd, the Netherlands at 8th and Italy only at the 36th place (M. Willett. The 15 Countries with the Highest Quality Of Life. 28 May 2013. www.businessinsider.com). Considering the respective culinary national specialities pizza, croquets, and rotten herring, quality of the life thus seems to be inversely proportional to taste.
- "The mind is like a parachute: it only works when it is open" (Albert Einstein)
- "Var mia cur, basta rivà in temp." (Proverbio Milanese)
“Running is unnecessary, it is enough to be in time” (Milanese proverb)
- A scientist must be a big dreamer with golden hands: golden hands will keep him inside the lab and the imagination will get him everywhere else.
- ”Technology alone is not enough without a broader vision.” (Rita Levi Montalcini)