

University of Groningen

## Peroxisomes in yeast ageing

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# Stellingen

*Behorende bij het proefschrift  
"Peroxisomes in yeast ageing"  
van Sanjeev Kumar*

1. A better knowledge of subtypes of various organelles is the key to understanding the process of differential segregation and the generation of cellular heterogeneity.
2. The observation that newly synthesized Pex3 incorporates into all pre-existing peroxisomes supports that template-based growth is the dominant pathway of peroxisomal biogenesis. (Chapter 2; Motley et. al., 2007, J. Cell Biol. 178:399–410; Menendez-Benito et. al., 2012, PNAS. 110:175–180).
3. The differences in sorting patterns of newly synthesized Pex3 and Pex14 suggest that multiple peroxisomal membrane protein targeting pathways exist. (Chapter 2).
4. The expanding list of organellar membrane contact sites indicates that cellular organelles are structurally and functionally closely associated and not as independent as initially thought (Giordano et. al., 2013, Cell. 153: 1494–1509; Hönscher et. al., 2014, Dev. Cell. 30: 86–94; Friedman et. al., 2011, Science. 334: 358–362)
5. Laboratory conditions are not the best mode to study protein functions. Therefore the outcome of such studies cannot always be extrapolated to other conditions.
6. One of the greatest consequences of evolution is the generation of diversity and we must strive to preserve it.
7. Practicing science means pursuing evidence but not believes.
8. It's better to get hurt by the truth than comforted with a lie. ('Kite Runner', Khaled Hosseini)
9. The herd mentality keeps you in the herd, it does not produce a statesman.
10. In today's world where opinions are influenced by (social) media it's increasingly important to remain vigilant and have a rational mind.
11. To do or not to do is our choice to make, but once you commit there is no trying.
12. You must not lose faith in humanity. Humanity is an ocean; if a few drops of the ocean are dirty, the ocean does not become dirty. (Mahatma Gandhi)