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Off the beaten track: new insights into peroxisomal fission and protein sorting events in yeast

Thomas, Ann Sara

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Propositions

Accompanying the PhD thesis

“Off the beaten track: New insights into peroxisomal fission and protein sorting events in yeast.”

Ann Sara Thomas

1. Species-specific differences arise in the mode of protein activation, as seen in the case of Pex11p phosphorylation in different yeasts (This thesis, chapter 2). Our task is to ask why, and not ignore dissimilarities as mere exceptions to a general rule.
2. Dynamic changes to the membrane accompany the ability of organelles to grow and divide. Disturbances caused to the lipid bilayer are ultimately resolved when the membrane splits. (Koch J. and Brocard C., 2011).
3. Discovery of new sorting routes to peroxisomes help unlock doors to the identification of yet uncharacterised peroxisomal proteins and metabolic pathways (this thesis, chapter 4).
4. Peroxisomes respond to a range of stimuli, making it necessary to test novel peroxisomal proteins across a range of conditions to identify its role in peroxisomes (this thesis, chapter 5).
5. Understanding interactions are fundamental to the study of biological systems. Answers to how and why biomolecules interact with one another will help us analyse them in context rather than in isolation.
6. “Our greatest glory is not in never falling, but in rising every time we fall.” Confucius.
7. If we are to unite success with kindness we must each remember where we once began.
8. “The aim of science is not to open the door to infinite wisdom, but to set a limit to infinite error.” Bertolt Brecht