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A genome-wide cell biological analysis of genes involved in MHC class II antigen presentation

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Propositions

Belonging to the thesis

'A genome-wide cell biological analysis of genes involved in MHC class II antigen presentation'

- 1 | While antigen presentation is understood in a high level of detail, we only understand the skeleton of this system. For more complete understanding, modern technologies such as siRNA screens allow genome wide consideration of relevant molecular relationships.
Chapter 1 of this thesis
- 2 | Although fairly shared between daughter cells, different organelles are subject to unique and often highly regulated mechanisms of inheritance.
Chapter 3 of this thesis
- 3 | The endoplasmic reticulum by virtue of its unique protein RNF26 controls the correct positioning of all endosomal compartments.
Chapter 4 of this thesis
- 4 | High-quality large data sets can be a critical source for new cell biology.
Chapter 2 and 4 of this thesis
- 5 | Genes with a similar expression pattern, as shown by transcriptional profiling, often function in the same biological processes.
Carpenter and Sabatini, 2004, Nature Reviews, p.11
- 6 | Mitosis controls the Golgi and the Golgi controls mitosis.
Colanzi and Corda, 2007, Current Opinion in Cell Biology, p.386
- 7 | Movement is an essential part of life at every level.
Roberts et al., 2004, Phil. Trans. R. Soc. B, p.1931
- 8 | The proteome is constantly remodeled to meet the changing environmental challenges of the cell.
Kim et al., 2011, Molecular Cell, p.325
- 9 | Watching dance isn't about picking up moves. It's about noting the relationships between motion and space and rhythm to absorb a greater concept.
Kathryn Craft, The Art of Falling (2014). It resembles the biology of the cell.
- 10 | The world I am interested in is the one where things are not named.
Martha Graham (1894-1991), Dance Choreographer