

The innate immune response against mycobacterial infection : analysis by a combination of light and electron microscopy Hosseini, R.

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Propositions

Accompanying the PhD thesis:

The innate immune response against mycobacterial infection Analysis by a combination of light and electron microscopy

- 1. The zebrafish tail fin infection model is a very valuable system for high resolution imaging of autophagy *in vivo*, which has until now mainly been performed in cell cultures. (This thesis)
- 2. Combining light and electron microscopy is a powerful technique for a cell biologist, that complements the possibilities for specific labelling and temporal resolution of fluorescence imaging with the high spatial resolution of electron microscopy. (This thesis)
- 3. Neutrophils are more efficient in the dissemination of bacteria than macrophages. (This thesis)
- 4. Epithelial cells could play a more important role in the defence against tuberculosis infection than thought so far, considering their role in the extrusion of infected phagocytes. (This thesis)
- 5. MyD88-mediated intercellular signalling is more important to the host defence against a mycobacterial infection than MyD88-mediated intracellular signalling. (This thesis)
- 6. Although autophagy plays an import role in many pathological processes, Dr. J. Klionsky, editor-in-chief of the journal Autophagy, was right when he stated that the autphagosome is overrated. D.J. Klionsky, 2011. *Autophagy*.
- 7. Fasting is an ancient tradition in many cultures that may be partially rooted in a cellular process called autophagy that we are now beginning to understand in modern scientific terms. B. Levine and G. Kroemer, 2008. *Cell*.
- 8. Apoptosis is the most abused term for cell death.
- 9. The electron microscope should be part of the basic tool kit of every cell biologist.
- 10. The caterpillar does all the work and the butterfly gets all the glory. Adapted from George Carlin