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Emerging approaches to study cell-cell interactions

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Propositions (Stellingen)

Behorende bij het proefschrift

Emerging approaches to study cell-cell interactions

Dimitrios Poulcharidis, Leiden, June 2020

1. The molecular mechanisms that control the transfer of membrane components remain unclear. *This thesis, chapter 2.*
2. The exchange of membrane components can result in biological effects either because the donor cells are stripped of molecules from their membrane or because the acceptor (recipient) cells get components which they can use. *This thesis, chapter 2.*
3. The ability of cells to communicate with one another is one of the most important characteristics of eukaryotic and prokaryotic cells. *This thesis, chapter 3.*
4. Different mammalian cells exchange membrane components in a time- and cell-type-dependent manner. *This thesis, chapter 3.*
5. Certain lipids have a much stronger tendency to exchange between cells than others. *This thesis, chapter 4.*
6. Successful fusion and regeneration of different strains would facilitate the discovery of new antibiotics and microbial strain improvement. *This thesis, chapter 5*
7. L-forms can be broadly described as a mutant form of a walled bacterium that is able to grow and divide indefinitely without a cell wall. [Claessen *et al.*, *Adv. Microb. Physiol.*, 2019, **74**, 97-141]
8. Although cells do not have a true language like humans, they do communicate via other complicated interactions.
9. Doing a PhD is hard. It may be one of the hardest things you do in your life. However, you shouldn't compromise your mental health. [Woolston, *Nature*, 2019, **575**, 403-406.]
10. Writing a thesis is not a sprint; it is a marathon.