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Development of the human fetal immune system: novel insights from high-dimensional single-cell technologies

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Stellingen behorende bij het proefschrift getiteld:

“Development of the human fetal immune system:

Novel insights from high-dimensional single-cell technologies”

1. A novel intestinal ILC subset (named int-ILC) can give rise to ILC3s and NK cells (this thesis).
2. The utero may not be as sterile as we thought, as memory-like T cells are already generated in the human fetal intestine (this thesis).
3. Compartmentalization of human immune system occurs as early as the second trimester (this thesis).
4. Highly multiplexed imaging-mass cytometry brings another layer of understanding of the immune system (this thesis).
5. Big data science changes the way we ask scientific questions.
6. It is important for us to understand the function of the human fetal immune system so that we can treat fetuses that are not doing well (Naomi McGovern, quoted by Heldi Ledford, *Nature* (2017)).
7. The advent of omics-based big data science will allow the assessment of human immune parameters in unprecedented detail and in an integrated fashion using data from different high-throughput technologies (Joachim L. Schultze, *Nature Immunology* (2015)).
8. Go for the messes-that's where the action is (Steven Weinberg, *Nature* (2003)). *Certain fields of immunology are relatively unexplored, and need to be investigated in great detail.*
9. When I walk along with two others, they may serve me as my teachers (Confucian Analects). *You can learn something from everybody.*
10. More effort, more luck.
11. Collaboration is important for successful multidisciplinary research.