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Universiteit Leiden



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Author: Unen, V. van

Title: Mucosal immunology revisited through mass cytometry : from biology to bioinformatics and back

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**Stellingen behorende bij het proefschrift getiteld:
“Mucosal Immunology revisited through Mass Cytometry:
From Biology to Bioinformatics and Back”**

1. A cell subset is a collection of distinct cells sharing similar features (this thesis).
2. Data exploration does not require a preformed hypothesis (this thesis).
3. Approaches that cluster dimensionality-reduced data are superior over approaches that cluster in high-dimensional space (this thesis).
4. Precursor-effector relationships and plasticity are synonyms (this thesis).
5. A two-dimensional, gating strategy for analyzing cytometry data is no longer appropriate. (Mair F *et al.* Eur J Immunol (2016)).
6. To understand how a system works, one needs to integrate all individual components. (Mark M Davis *et al.* Nat Immunol (2018)).
7. With increasing amounts of big data and the limitation of humans being capable of only interpreting three dimensions, medical decisions should be computer-driven.
8. Multidisciplinary research requires multiple first authorships, inevitably leading to similar PhD theses.
9. The summarizing discussion in the thesis offers a place for all the sentences your supervisor had deleted while revising your manuscripts.
10. It takes an athlete to dance, but an artist to be a dancer (Shanna LaFleur) (1932). *Although you may have the physical strength to execute a dance movement, it is the connection with inner expression and feelings that defines a dancer.*
11. Scientists and artists are alike, requiring creativity, inspiration, perseverance and dedication.