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From the root of variation: A metabolomics perspective to plant soil-feedback

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Stellingen (Propositions)

Behorende bij het proefschrift van Martine Deborah Huberty

From the root of variation – A metabolomics perspective to plant soil-feedback

Leiden, 24th November 2020

1. Foliar chemistry and biomass of a plant reflect the legacy left behind in the soil by previous plants (this thesis, Chapter 2)
2. Spatial origin of a soil sample inoculated into sterile soil is an important parameter that explains metabolomic differences among *Jacobaea vulgaris* plants (this thesis, Chapter 3)
3. The influence of soil legacies on root and shoot biomass is stable over time, but the influence on foliar metabolomes varies with time of conditioning (this thesis, Chapter 4)
4. Combining different chemical platforms enables the detection of compounds that would be missed otherwise (this thesis, Chapter 5)
5. Only in combination with statistics, the full potential of metabolomics can be harnessed
6. To tackle the problems of the future, ecology needs to become more solution and application based
7. Chemists and ecologists speak different scientific languages and fruitful collaborations need interdisciplinary colleagues
8. The common knowledge of the past is often neglected in modern science.
9. Mentoring students teaches you more about yourself than any other training will ever do
10. Questioning choices that have been taken weakens personal strength
11. Adapting to a similar but not identical culture is more challenging than integrating into a completely different one