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Linking soil microbial community dynamics to N₂O emission after bioenergy residue amendments

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Title: Linking soil microbial community dynamics to N₂O emission after bioenergy residue amendments

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Propositions

- 1.** Long-time series experiments give better understanding of microbial communities' response to disturbances brought about by the application of organic residues than short term studies do. (This thesis)
- 2.** Adequate nutrient management focused on the avoidance of negative side effects such as N₂O emissions are crucial for sustainable use of organic residues. (This thesis)
- 3.** The identification of microbes that respond to disturbances by the application of organic residues can help us to define strategies to mitigate the negative side effects of these applications. (This thesis)
- 4.** The role of nitrification and fungal denitrification in the N₂O production in soil are overlooked and are far more common than realized until now (This thesis)
- 5.** Pressure is productivity's best friend.
- 6.** Being a good scientist nowadays is not enough, it is necessary to know how to sell your results.
- 7.** Getting out of your comfort zone can change your life in a positive manner.
- 8.** Focus is indispensable to achieve your personal goals.

Propositions belonging to the PhD thesis entitled:

"Linking soil microbial community dynamics to N₂O emission after bioenergy residue amendments"

Késia Silva Lourenço

Leiden, 18 April 2018