The identification of microbiome markers for potato vitality



Yang Song Utrecht University 10/12/2019





The remaining potential of microbiome is enormous.



Pieterse et al., (2016) Trends in plant science



Bakker *et al.,* (2018) Cell Berendsen *et al.,* (2018) ISME J



Why potatoes?

- **Potatoes** are the world's 4th-largest food crop after maize, wheat, and rice.
- Around 60% of **seed potatoes** on the market are produced in the Netherlands.
- HZPC Holland BV is the largest Dutch exporter of seed potatoes.









Goal of the Project

Identify microbes as predictors of potato vitality

- Predictors of low viability (pathogens)
- Predictors of high viability (beneficial microbes)





Different potato compartments/varieties harbor distinct bacterial communities





. 1



Side projects





Acknowledgements



Universiteit Utrecht















Universiteit Utrecht



Doretta Boomsma

Falko Hofstra

Hans van Doorn

Martzen ten Klooster



Questions?

