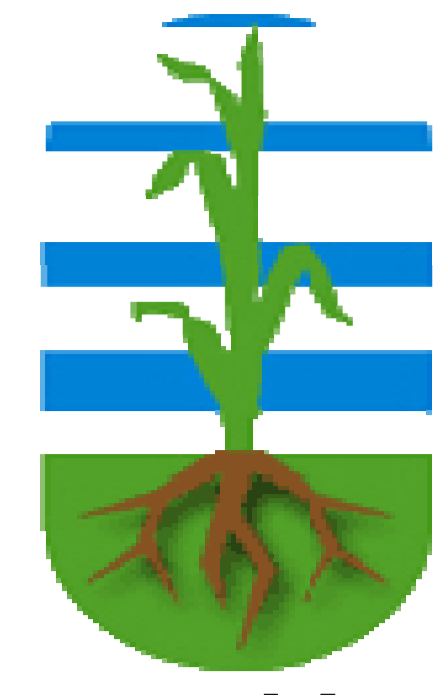


# Methods for root exudate sampling



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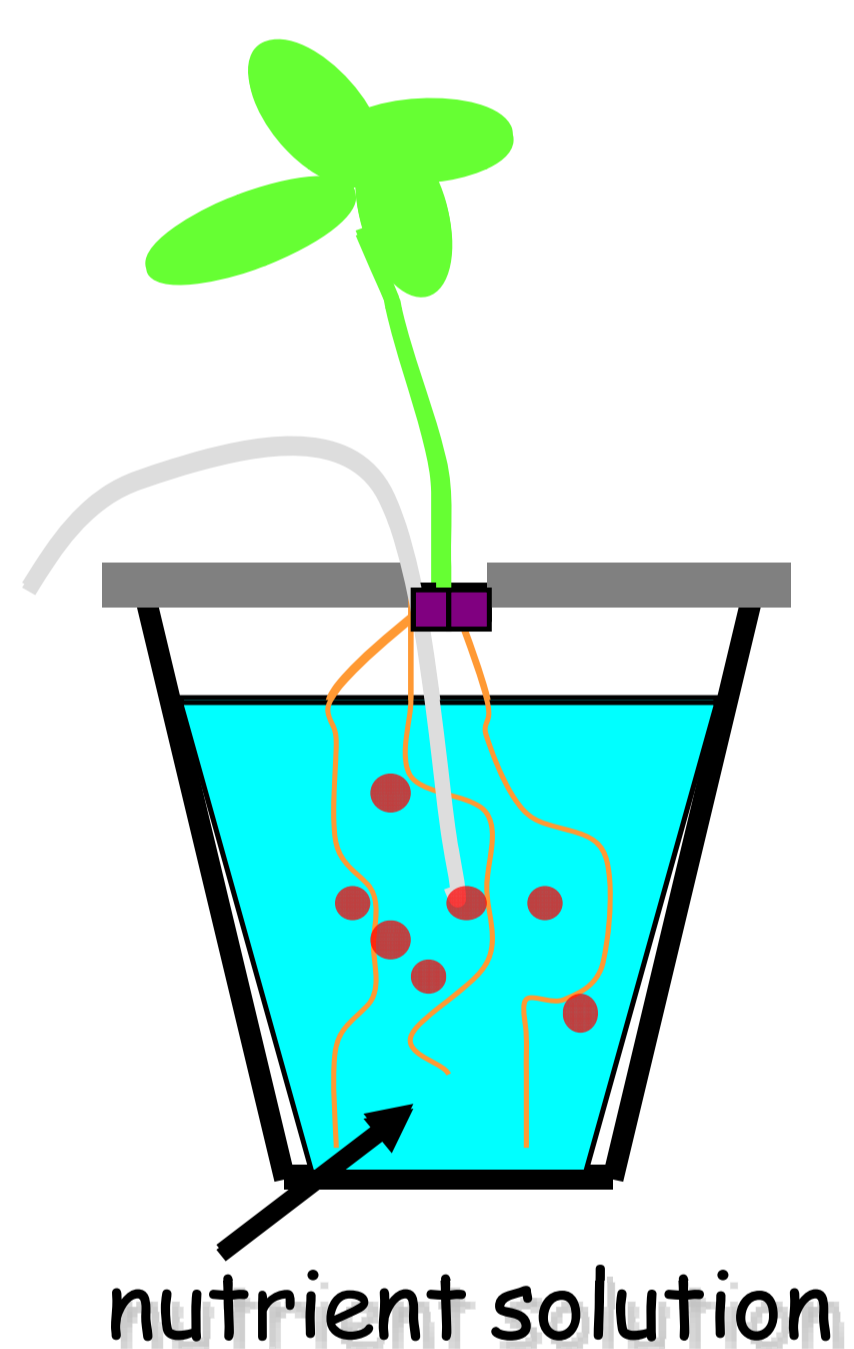
## Root exudates....

- increase nutrient solubility
- accelerate mineral weathering
- detoxify metals via complexation
- stimulate microbial growth

## Sampling Methods

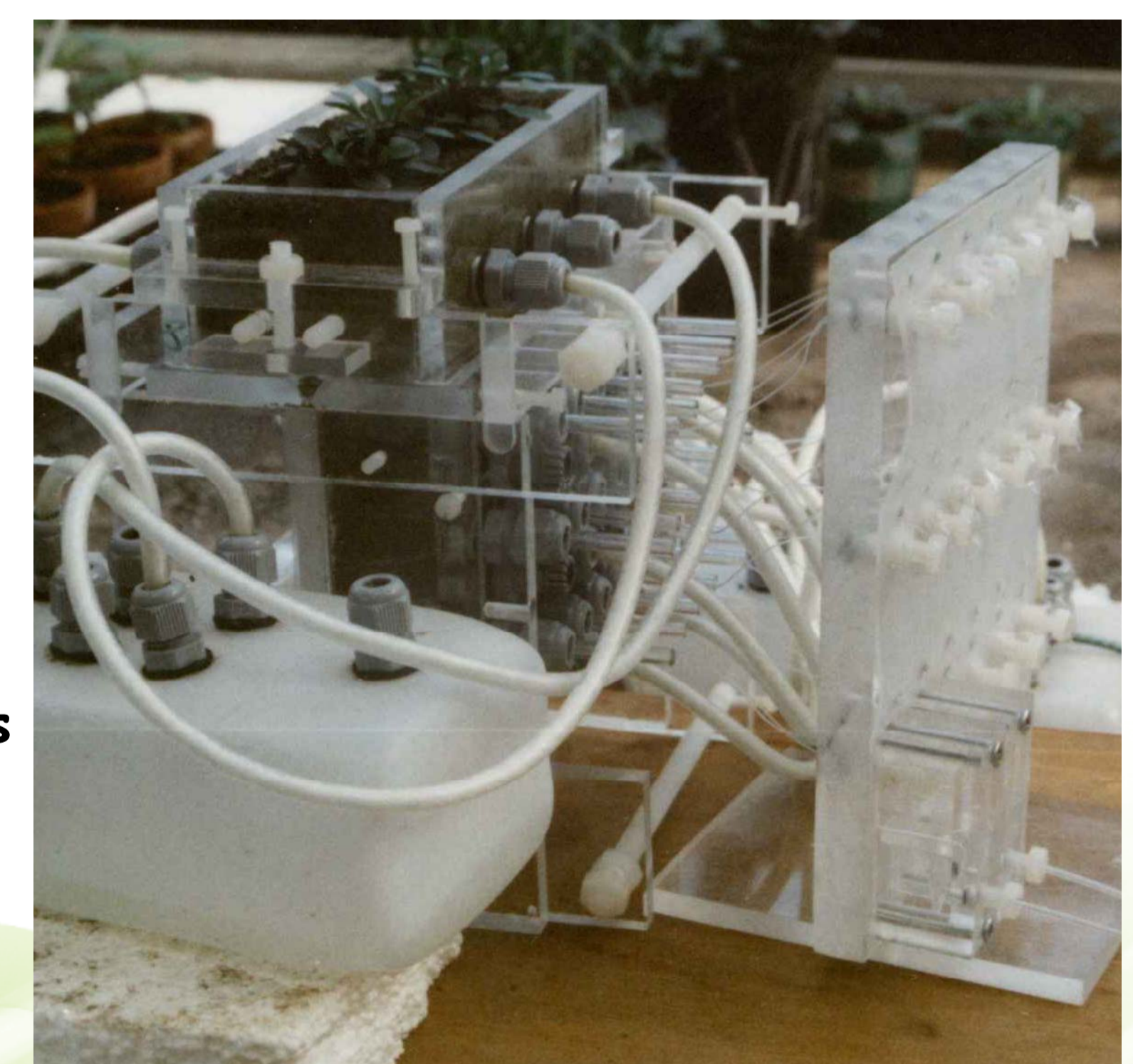
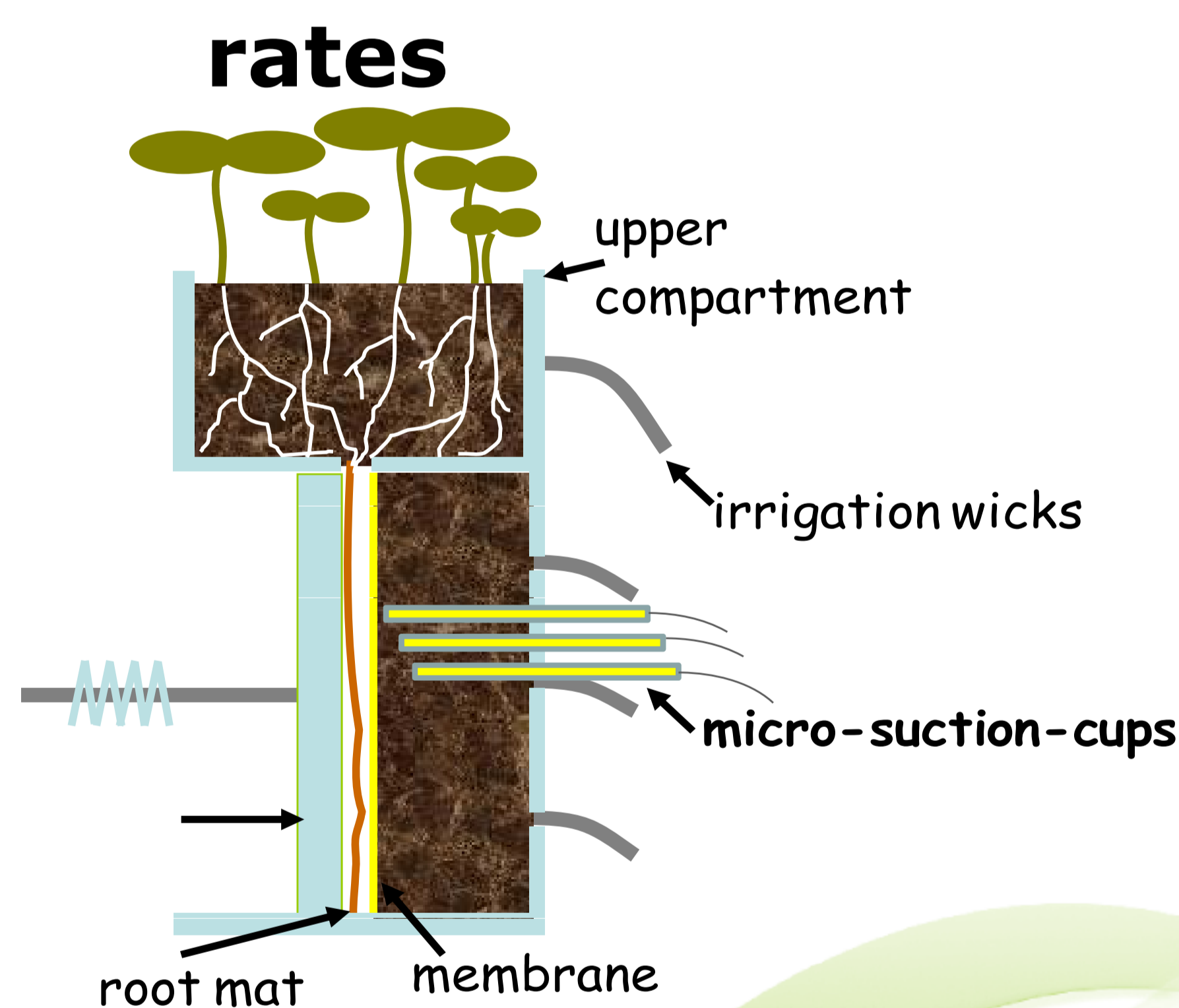
### (1) Nutrient solution

- + simple
- unnatural growth conditions



### (2) Micro-suction-cups

- + high spatial resolution, semi-natural growth conditions
- small sampling volumes, no exudation rates



### (3) Exudate collector

- + semi-natural growth conditions, flexible sampling intervals
- large sampling volume with small concentrations

