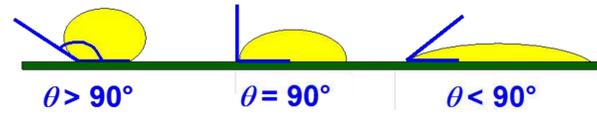
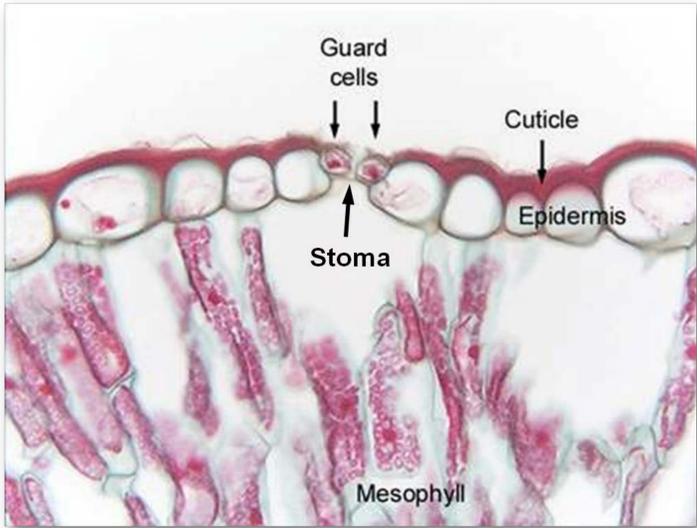


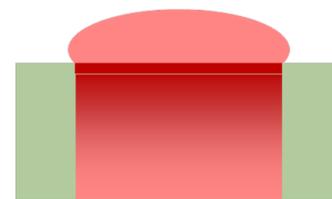
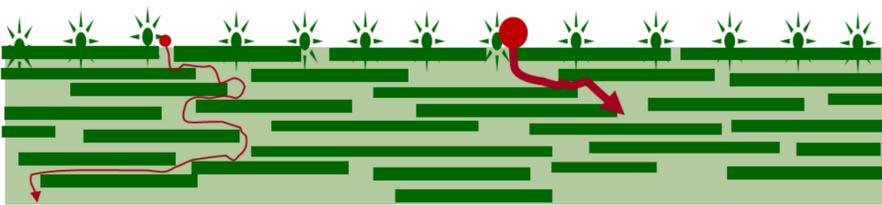
# Blattdüngung – Wie funktioniert das?

## Wo und wie erfolgt die Aufnahme?

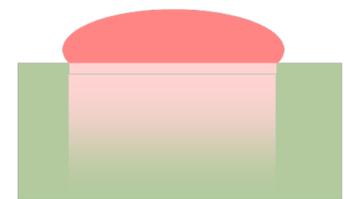


Die Benetzbarkeit und Oberflächenspannung bestimmen das Volumen der Lösung auf dem Blatt

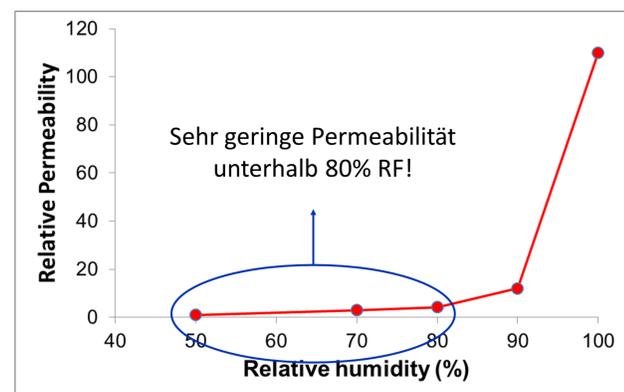
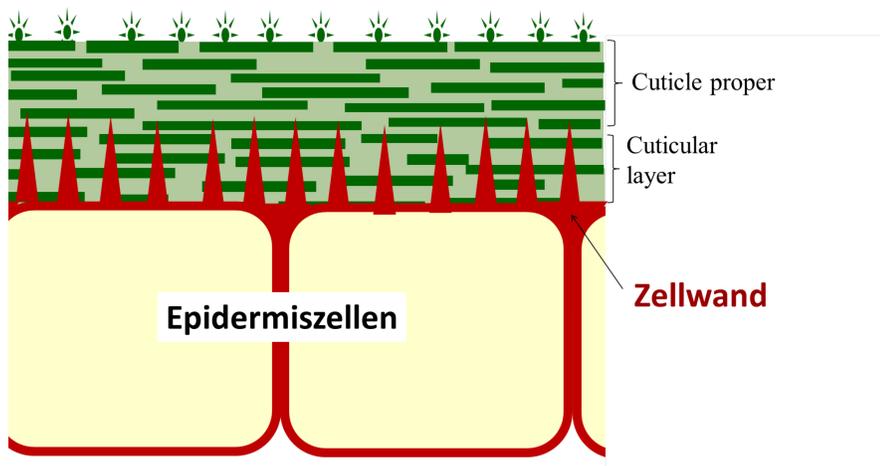
## Aufnahme durch die Cuticula



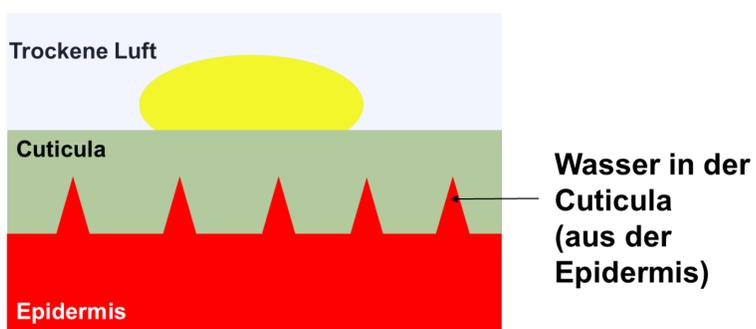
Gut löslich  
(lipophile = „fettliebende“  
Substanz)  
Beispiel: viele Pestizide



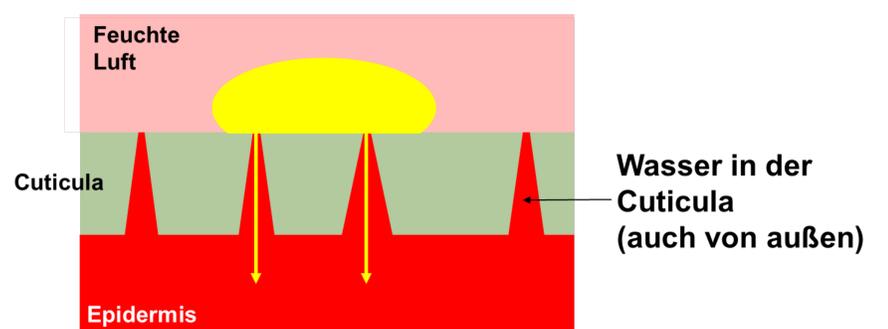
Schlecht löslich  
(lipophobe = hydrophile =  
„wasserliebende“ Substanz)  
Beispiel: Salze



Modifiziert nach: Fernández and Eichert (2009), Crit. Rev. Plant Sci. 28:36–68.



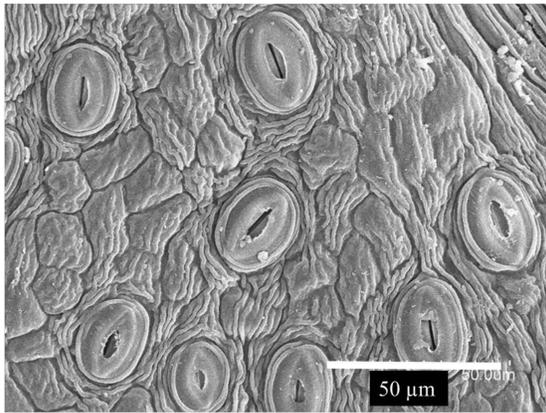
Verändert nach: Eichert und Fernández (2012), in: Marschner 3rd Ed.



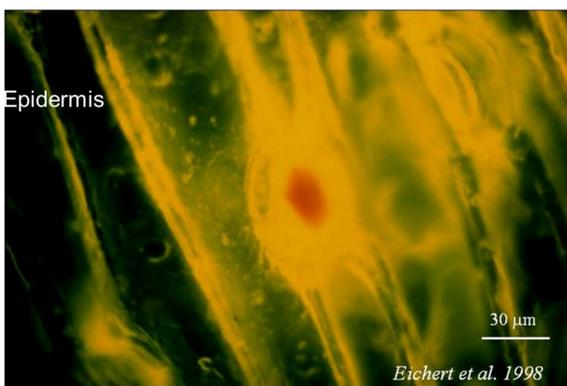
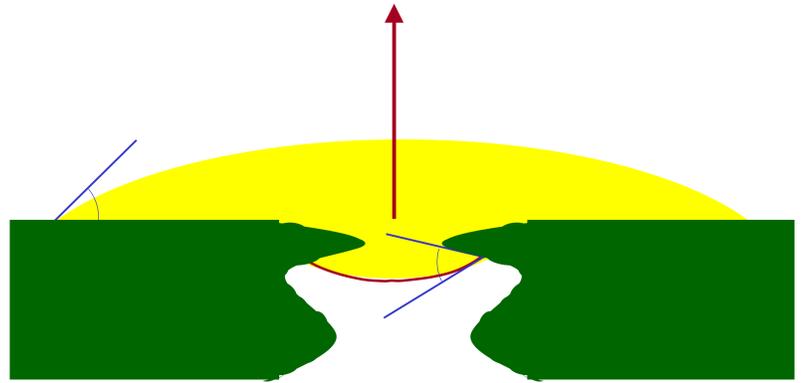
# Blattdüngung – Wie funktioniert das?

## Aufnahme durch Spaltöffnungen (Stomata)

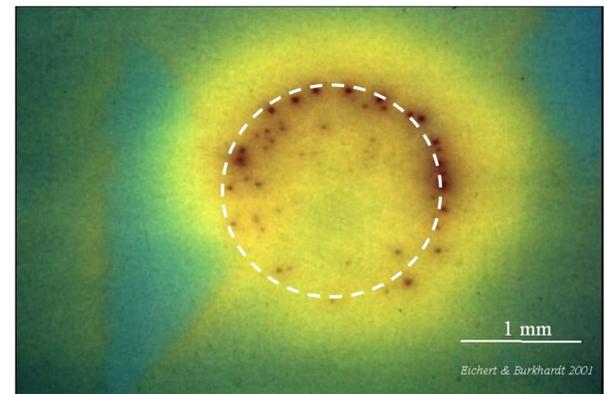
100 – 500 Stomata pro mm<sup>2</sup>!



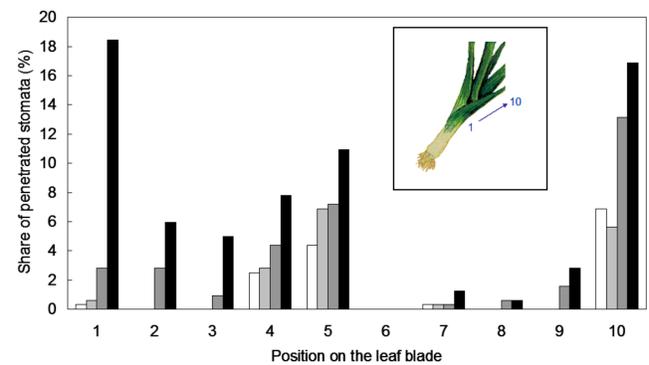
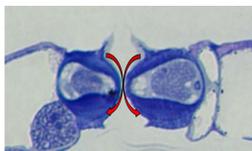
Pfirsich, untere Blattseite, Fernández et al. 2008



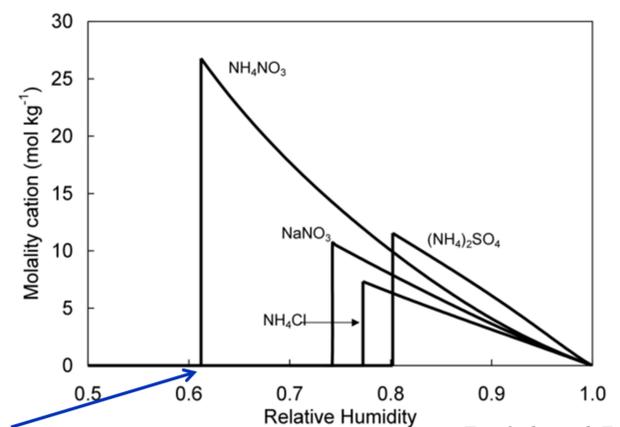
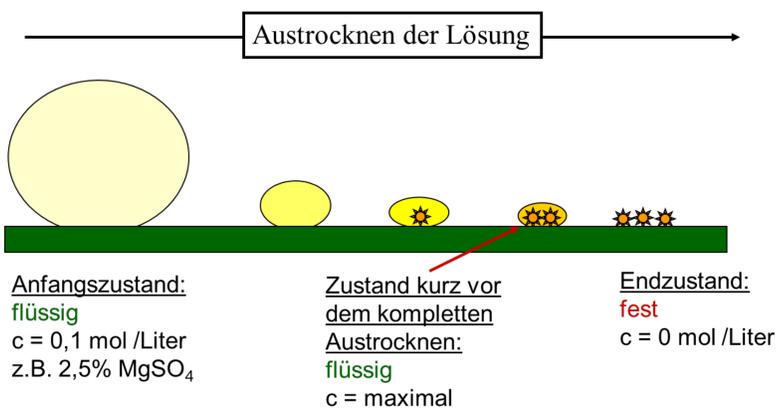
Eichert et al. 1998



Eichert & Burkhardt 2001



## Einfluss der Luftfeuchtigkeit



Deliquescenzpunkt = DQ von NH<sub>4</sub>NO<sub>3</sub>

Fernández and Eichert (2009), Crit. Rev. Plant Sci. 28:36–68.

■ CaCl <sub>2</sub> 31%	■ KCl 85%
■ Ca(NO <sub>3</sub> ) <sub>2</sub> 54%	■ KNO <sub>3</sub> 93%
■ Ca(HCOO) <sub>2</sub> 96%	■ K <sub>2</sub> SO <sub>4</sub> 98%
■ MgCl <sub>2</sub> 33%	■ ZnBr <sub>2</sub> 9%
■ Mg(NO <sub>3</sub> ) <sub>2</sub> 54%	■ Zn(NO <sub>3</sub> ) <sub>2</sub> 42%
■ MgSO <sub>4</sub> 90%	■ ZnSO <sub>4</sub> 90%

**Faustregel: Chlorid < Nitrat < Sulfat**

