

Plantenfysiologie

= De studie der levensverrichtingen en levensprocessen in de plant. Is de coördinatie en integratie van processen. Ook interactie en uitwisselingen.

Plantaardig leven bevindt zich in vloeibaar water, licht, bij voldoende zuurstof en bij geen te grote hoeveelheid van schadelijke straling. De huidige atmosfeer is sterk door het plantenleven beïnvloedt.

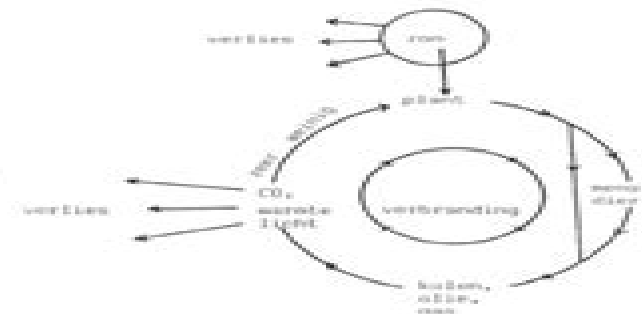
Energie

= Noodzakelijk voor alles wat leeft.

- Voornaamste energiemolecule is ATP dat ontstaat vooral bij de verbranding van suiker.
- De globale reactie: $-C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ met vorming van 36 ATP

Energie in de plant

- **Leven <-> energie**
 - Alle leven begint bij de fotosynthese
 - Alle niet-groene levende wezens zijn aangewezen op de fotosynthese van de plant.
- **Energiekringloop:** Slechts een zeer gering deel van de energie die door de plant werd vastgelegd, komt uiteindelijk weer ter beschikking van de plant.
- **Energie en droge stof in de plant**
 - Fotosynthese ademhaling
 - Fotosynthese: DS (suikers) uit CO_2 en H_2O
 - Suikers zijn voedsel voor de plant
 - Ademhaling
 - = Levering van E (door gebruik van suikers)
 - Nodig voor onderhoud en groei (aanmaak DS)



Leerboek Der Plantenfysiologie 3 Oecofysiologische Relaties

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