



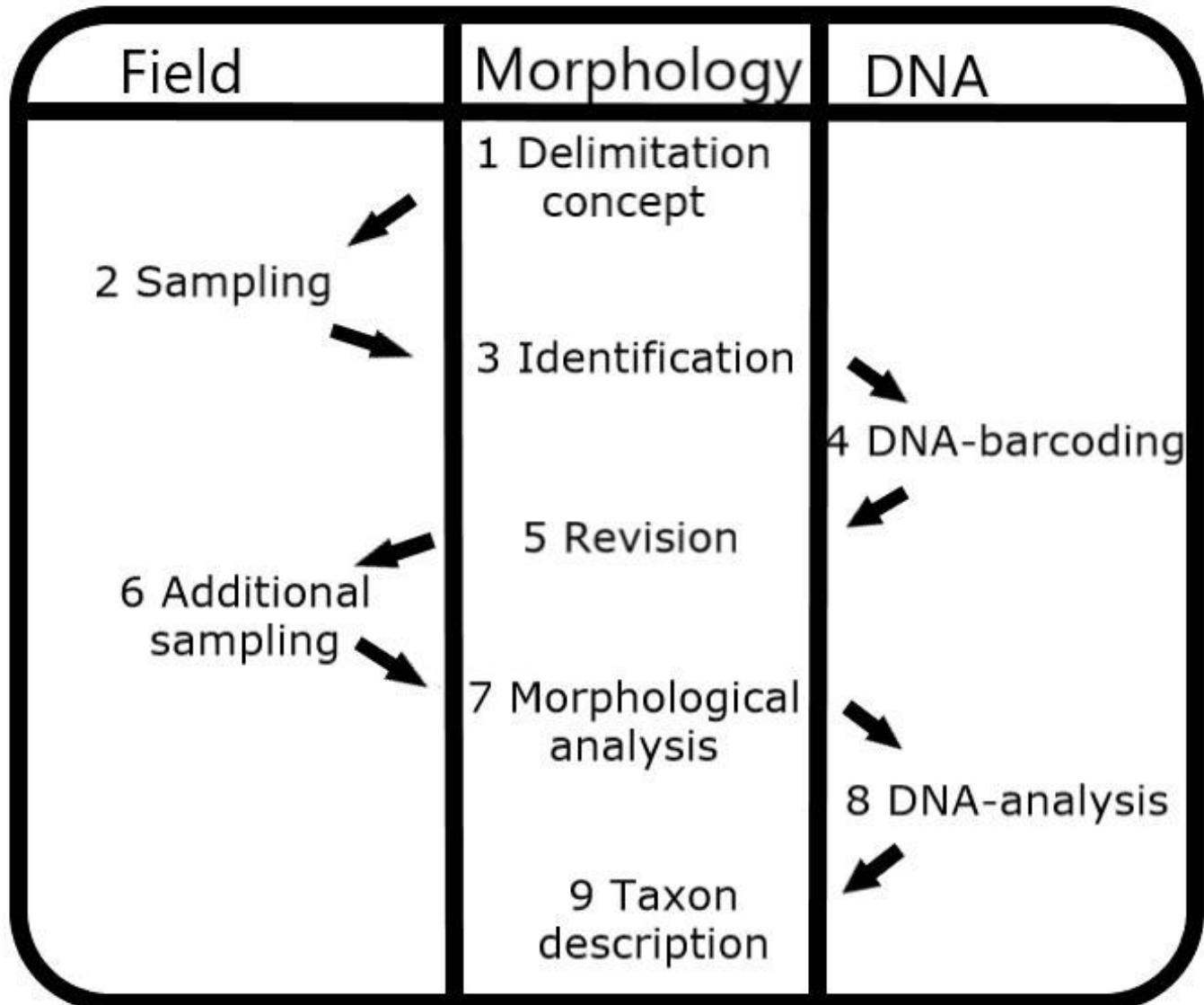
To be a species or not to be



Henk Siebel 2019



Iteratieve taxonomie



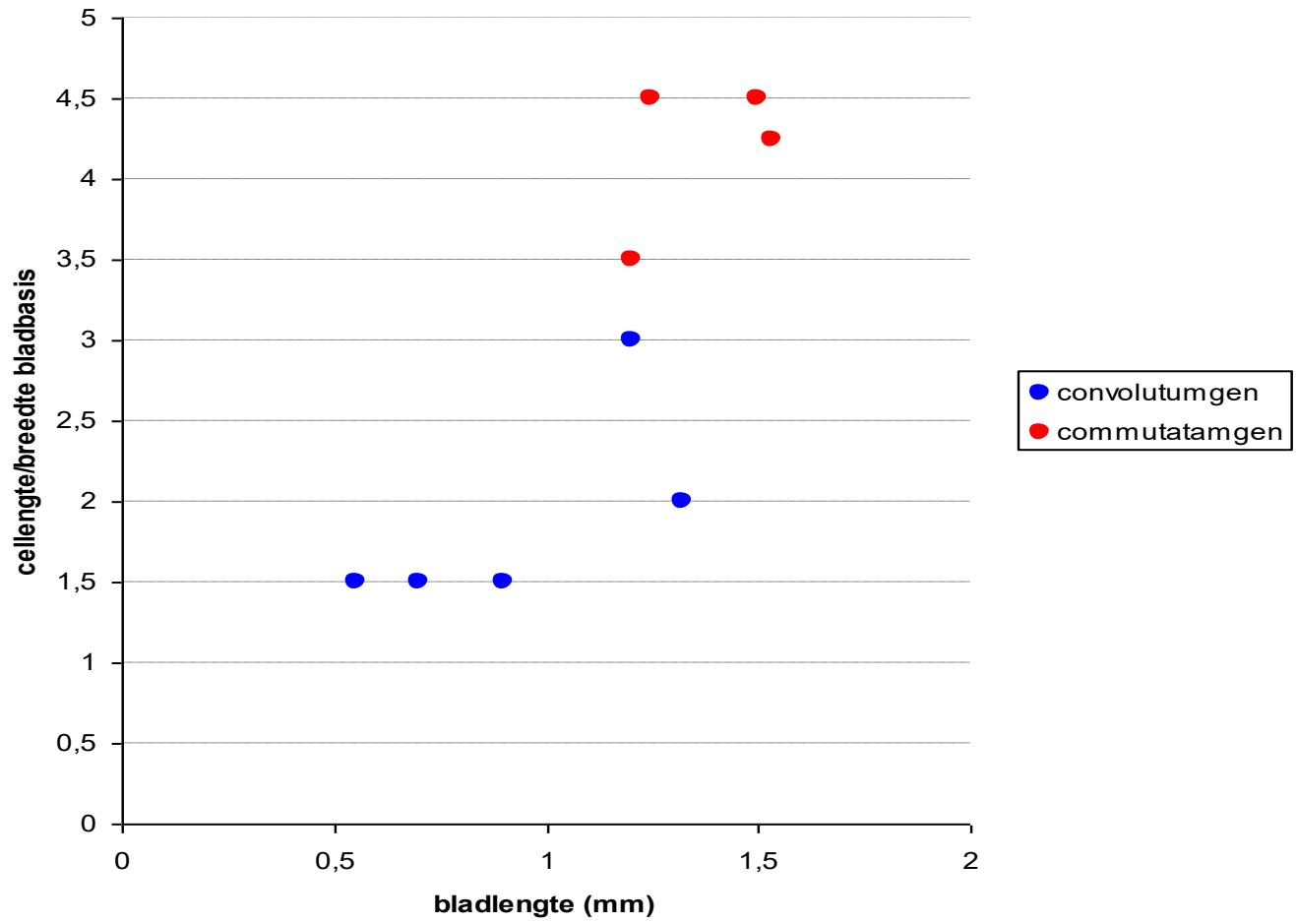
Barbula convoluta

var. convoluta

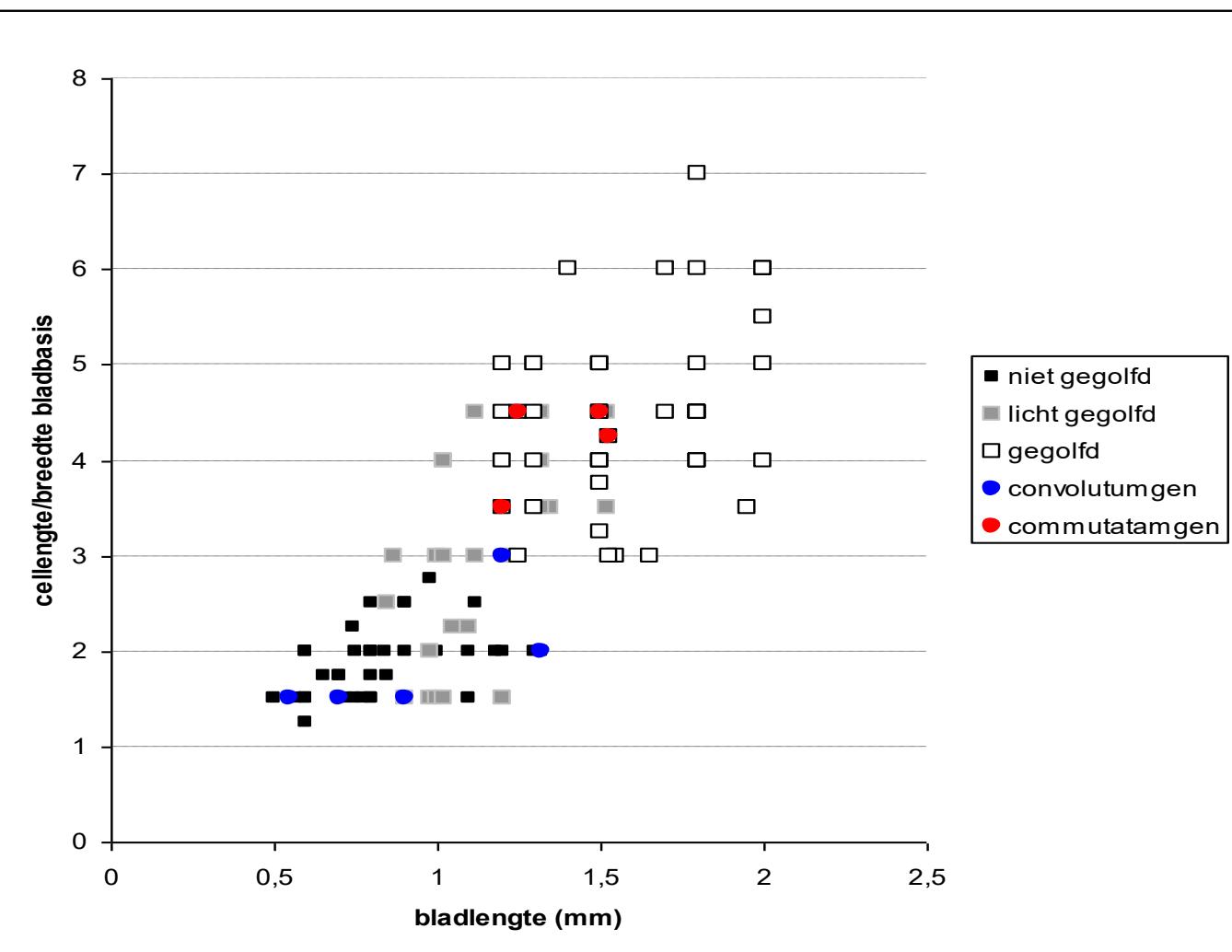
var. sardoa



Twee verschillende haplotypen



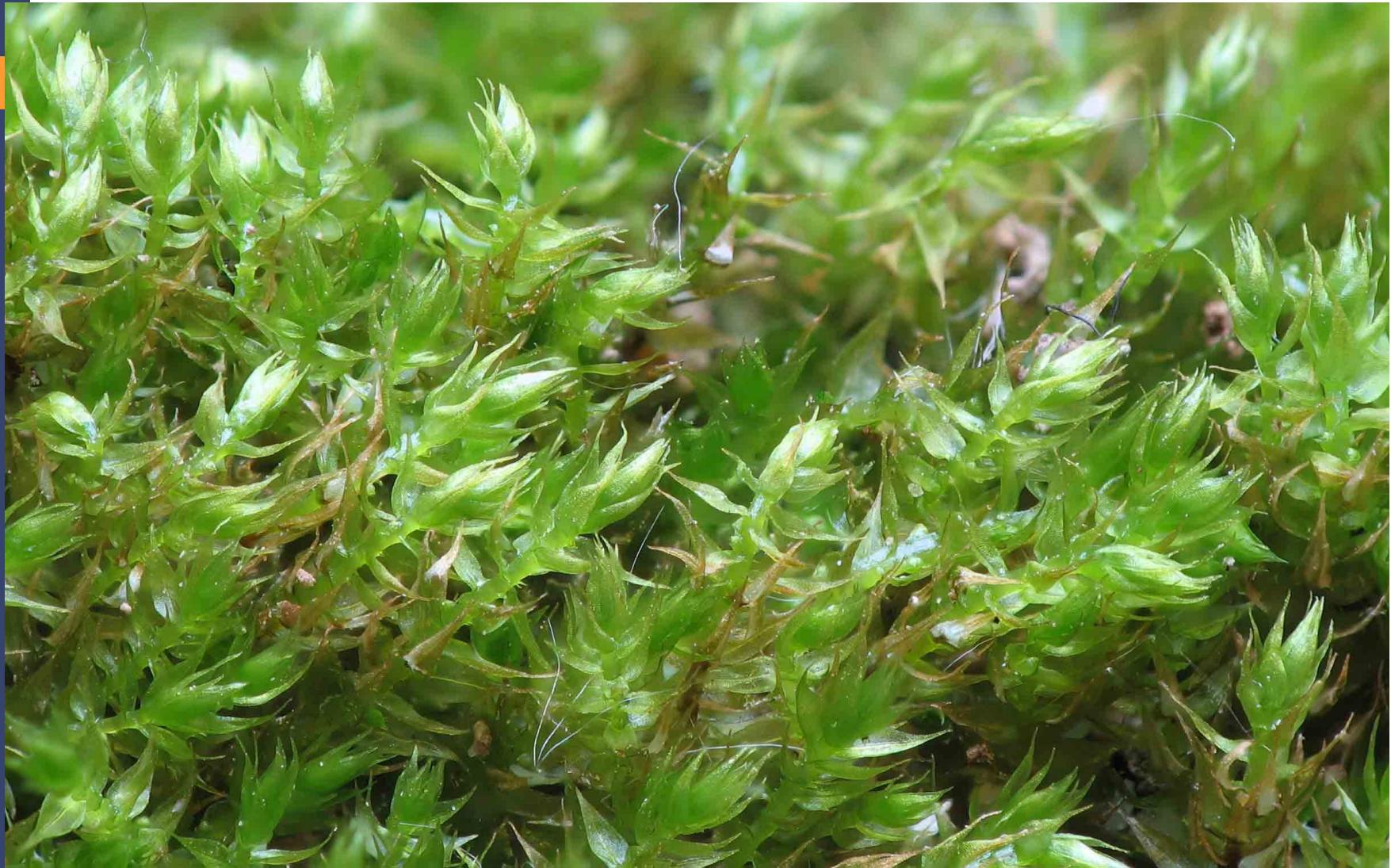
Twee groepen met kleine morfologische overlap

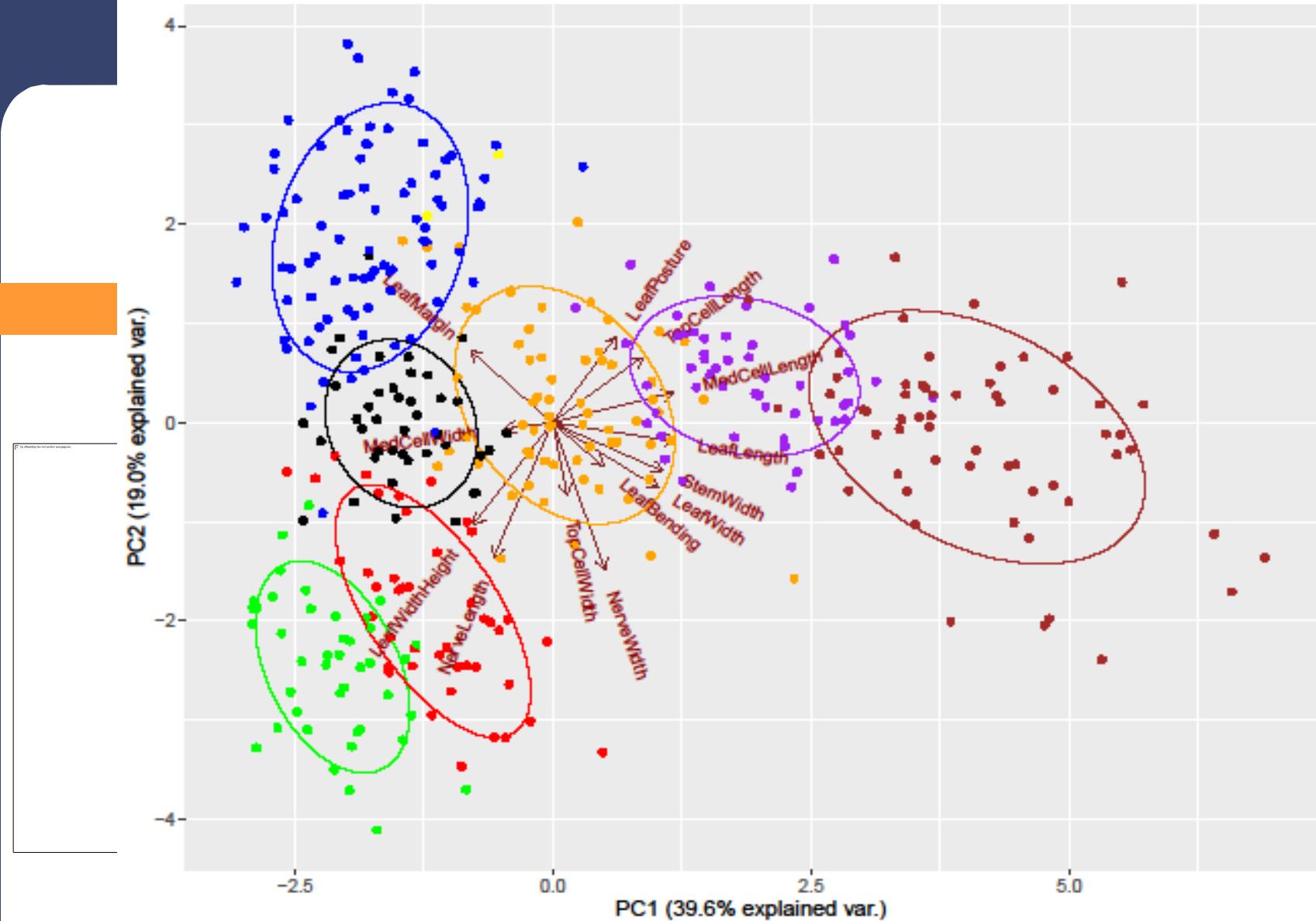


Streblotrichum

- *Streblotrichum convolutum*
 subsp. *commutatum* (= var. *sardoa*)
 subsp. *convolutum*

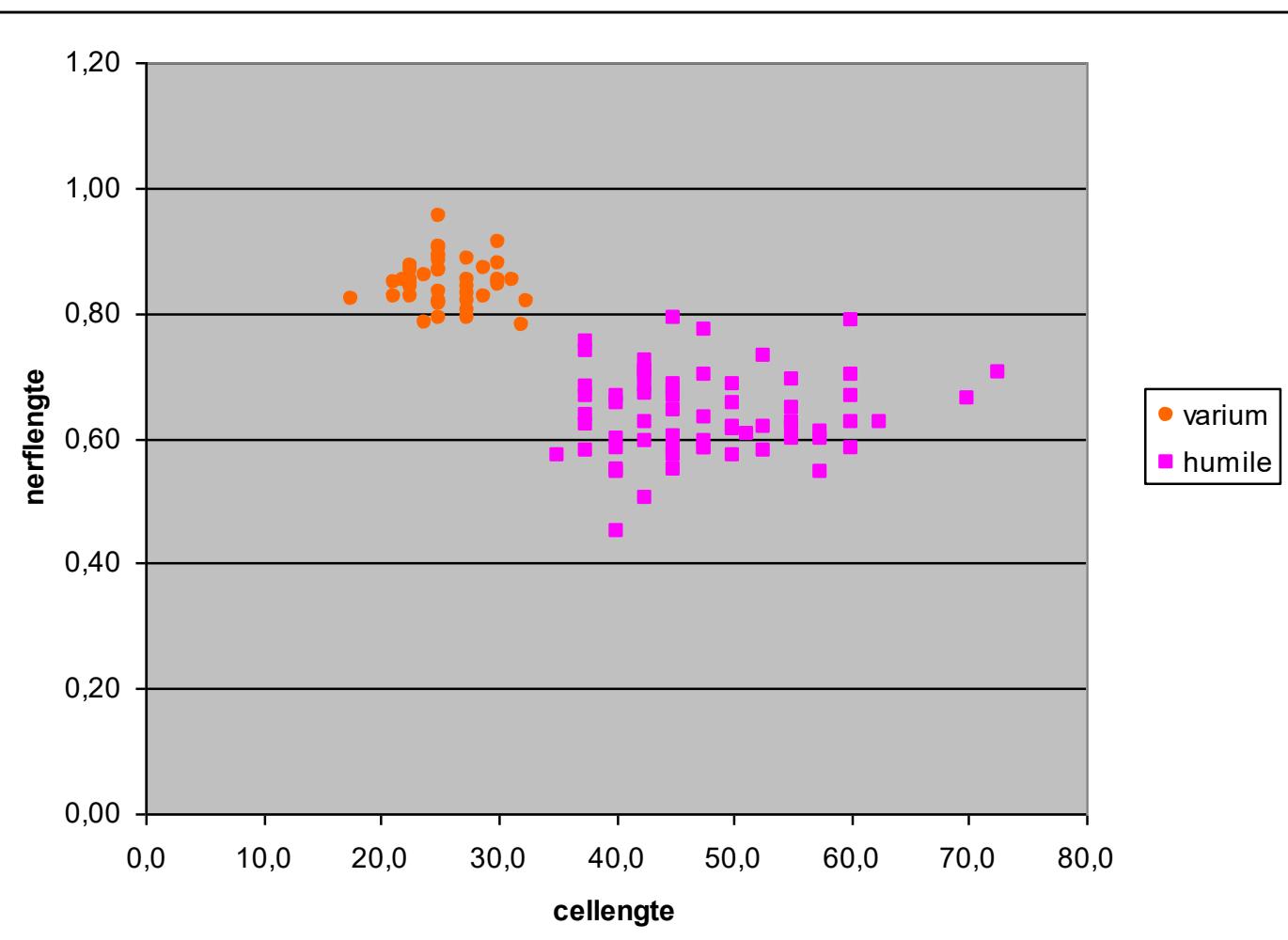
Amblystegium humile - varium



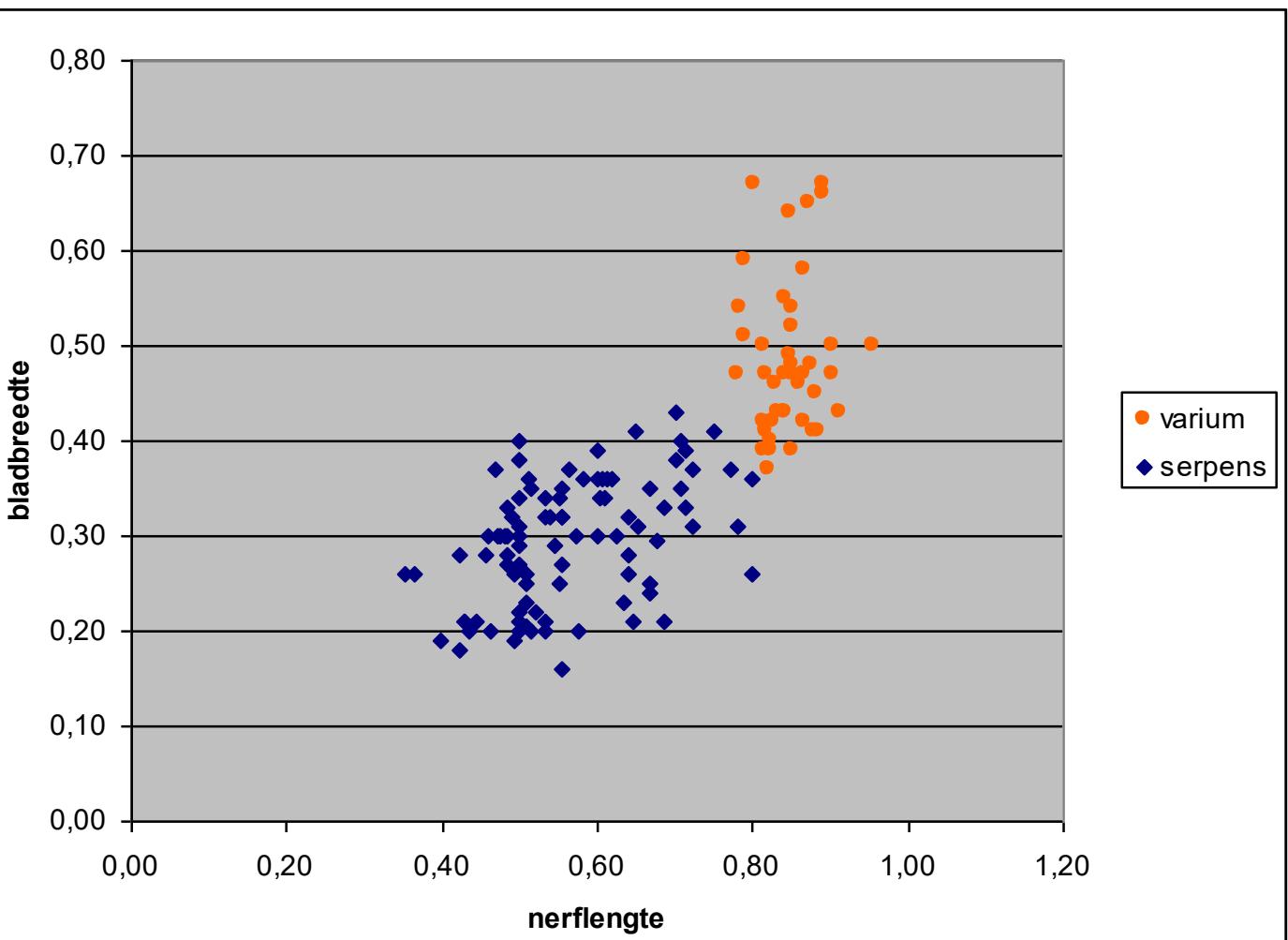


LeafMargin
MedCellWidth
LeafBending
TopCellWidth
NerveWidth
LeafLength
LeafWidth
StamWidth
LeafBendAngle

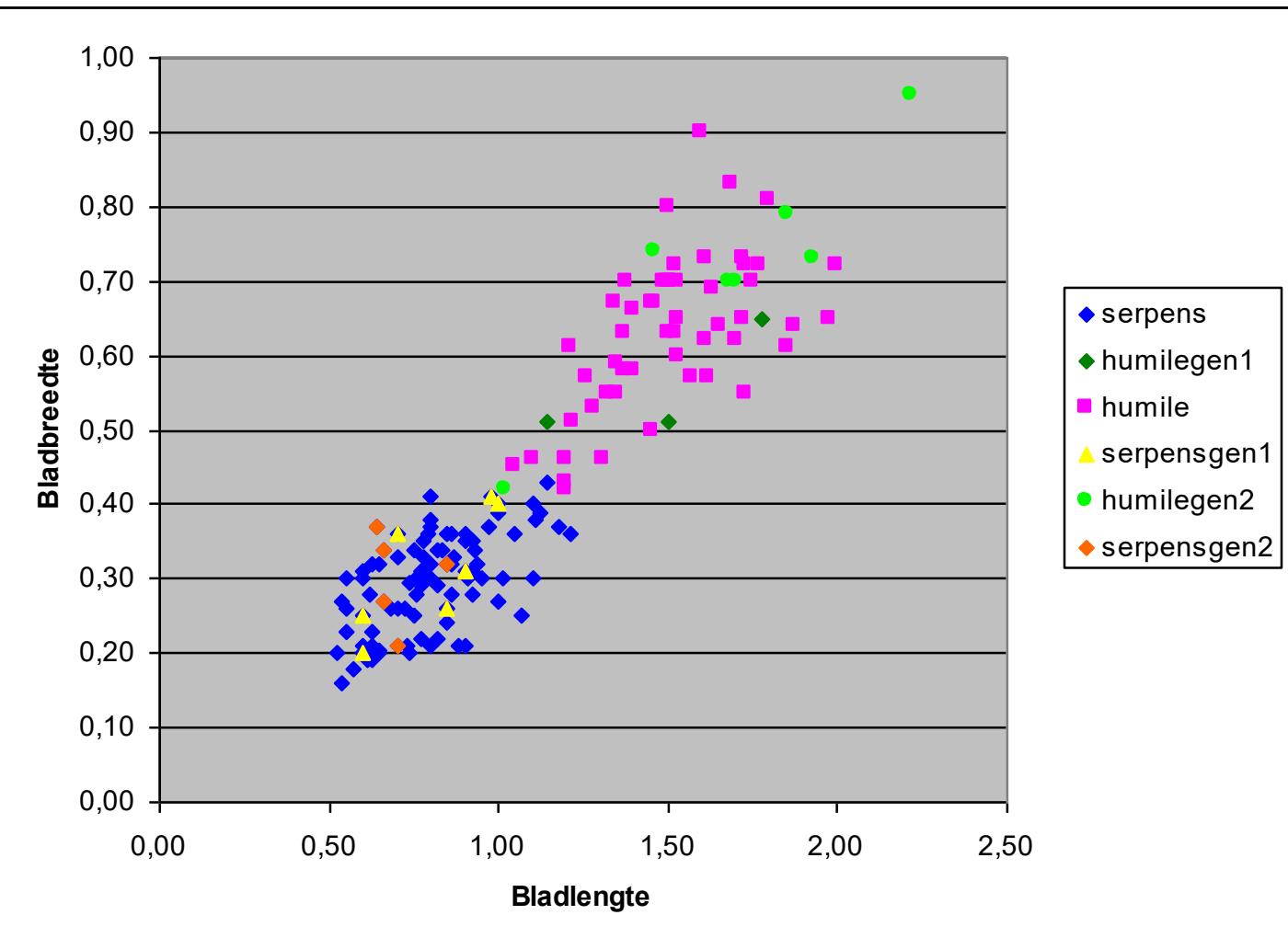
Geen overlap varium en humile



Geen overlap varium en serpens



Meer genetische dan morfologische groepen



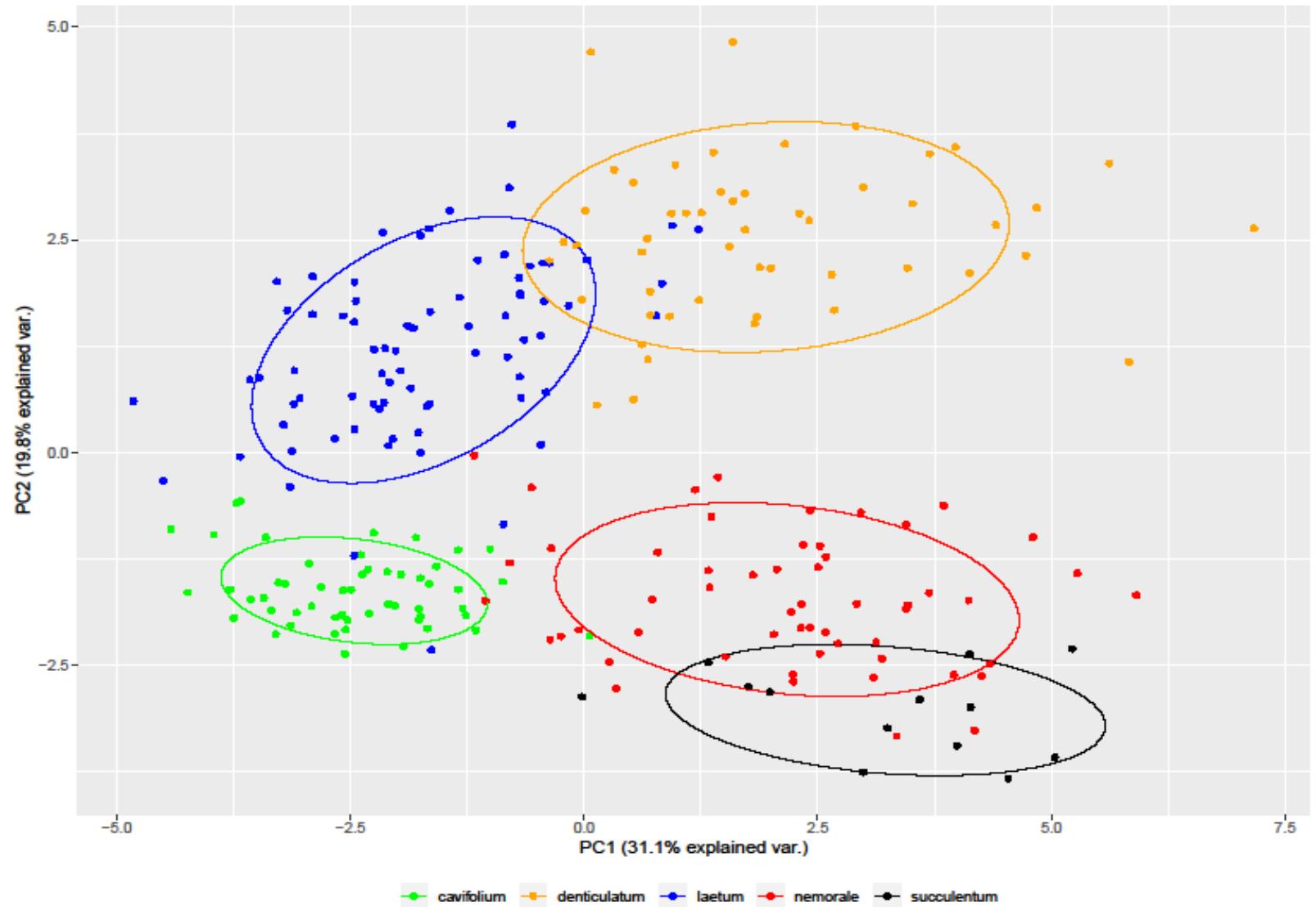
Amblystegium

- *Amblystegium fluviatile*
- *Amblystegium humile* (incl. *trichopodium*)
- *Amblystegium serpens* (incl. *juratzkanum*)
- *Amblystegium tenax*
- *Amblystegium varium* s.s.

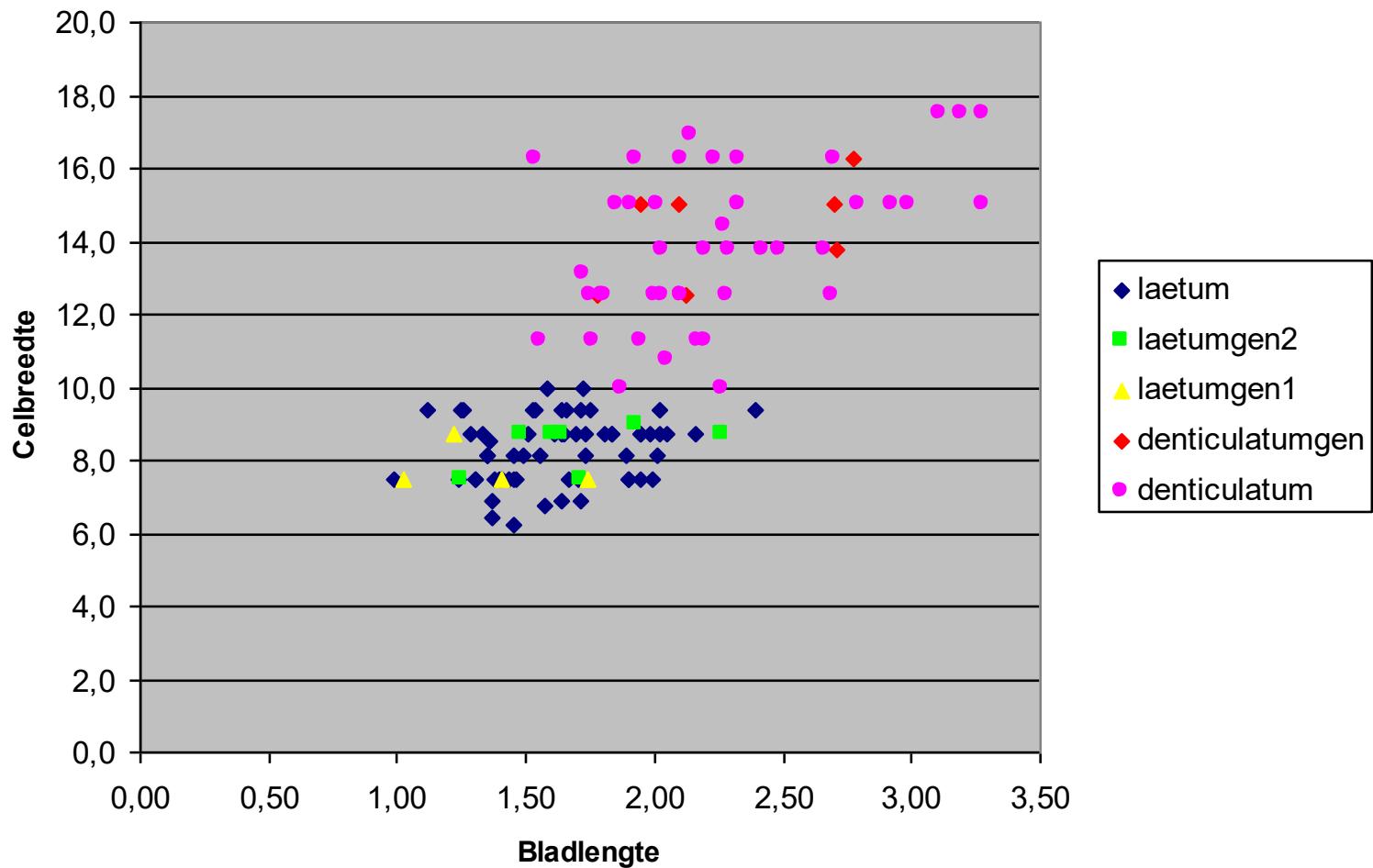
Plagiothecium nemorale - cavifolium



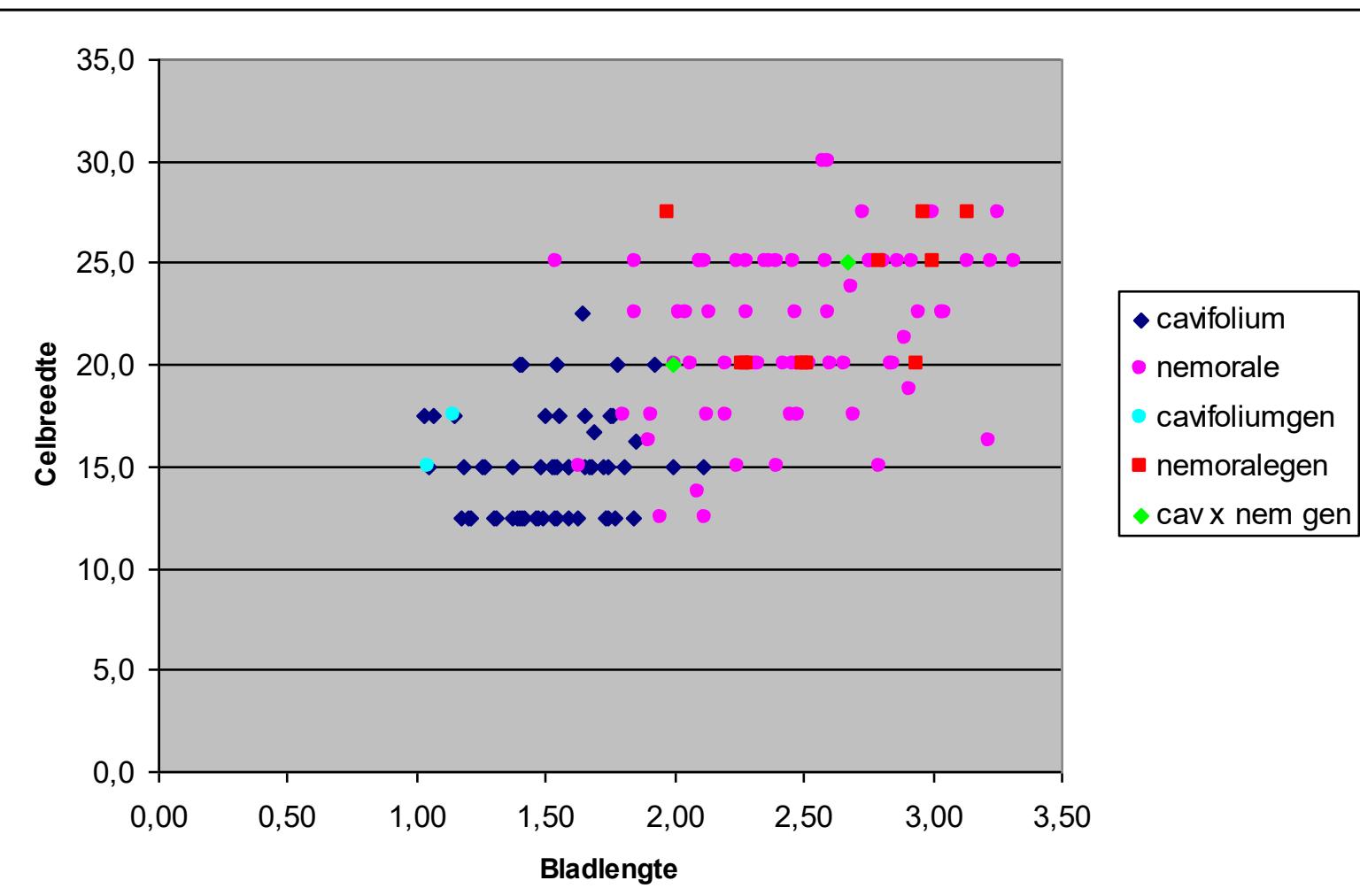
Variabele kenmerken



Geen *P. curvifolium* te onderscheiden



Overlap in afzonderlijke kenmerken *P. nemorale* – *P. cavifolium*



Plagiothecium

- *Plagiothecium cavifolium*
 subsp. *cavifolium*
 subsp. *succulentum* (incl. *nemorale*)
- *Plagiothecium denticulatum* (incl. *ruthei*)
- *Plagiothecium laetum* (incl. *curvifolum*)
- *Plagiothecium latebricola*
- *Plagiothecium undulatum*
- Geen *P. platyphyllum*

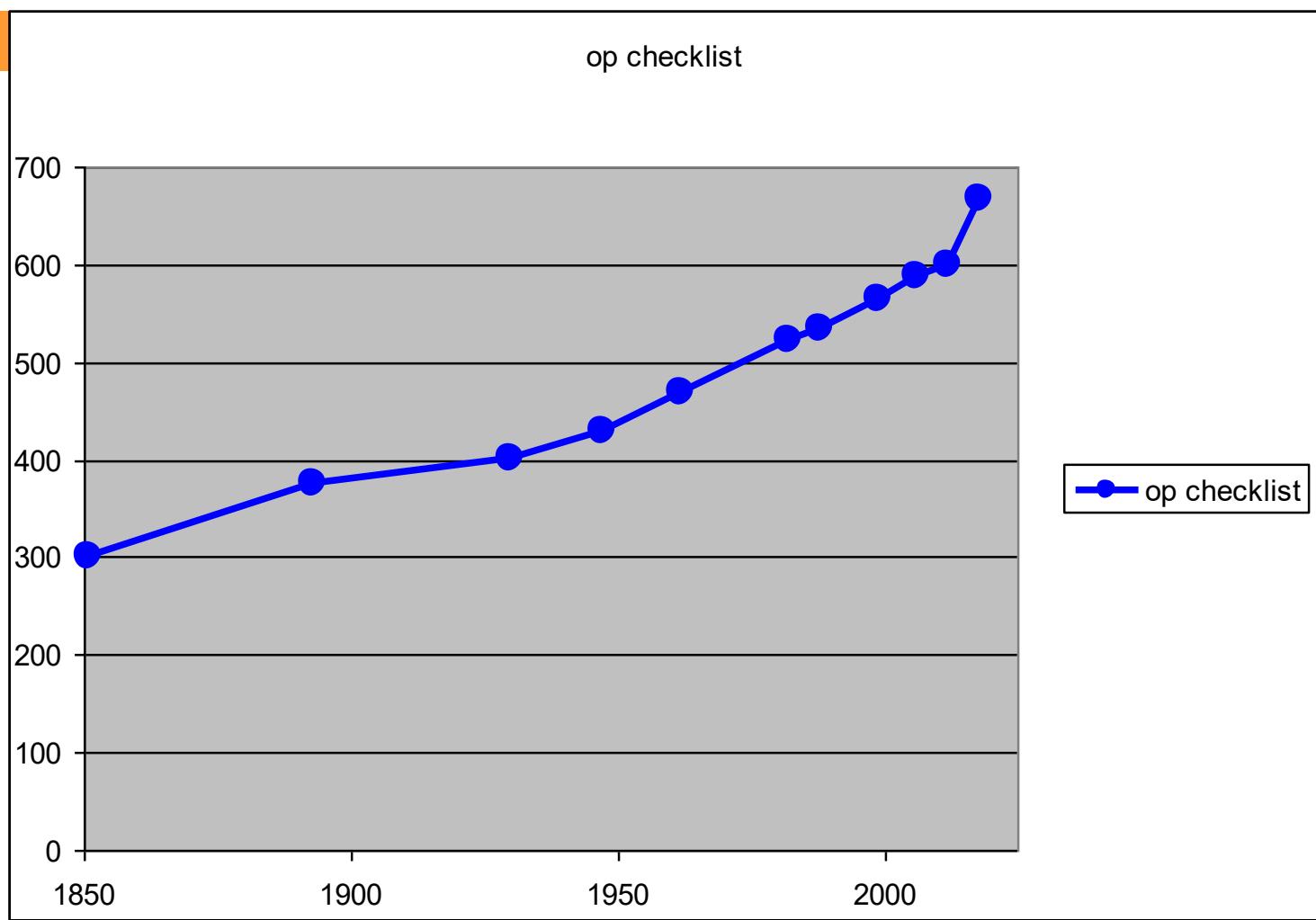


- Soort : genetisch en morfologisch verschillend
- Ondersoort : genetisch verschillend maar morfologisch kleine overlap
- Variëteit : DNA - sequence niet verschillend maar wel een morfologisch veldverschilkenmerk

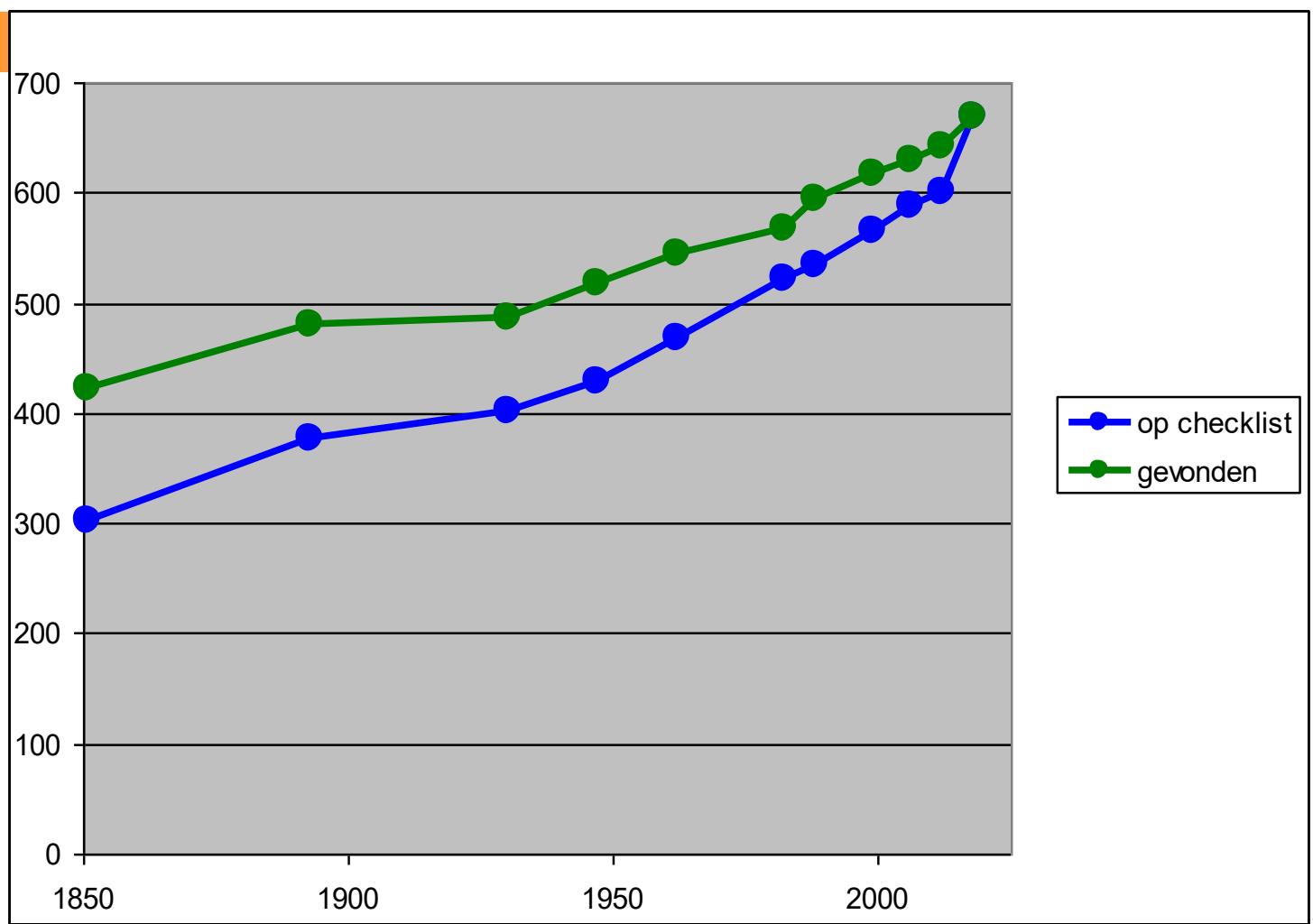
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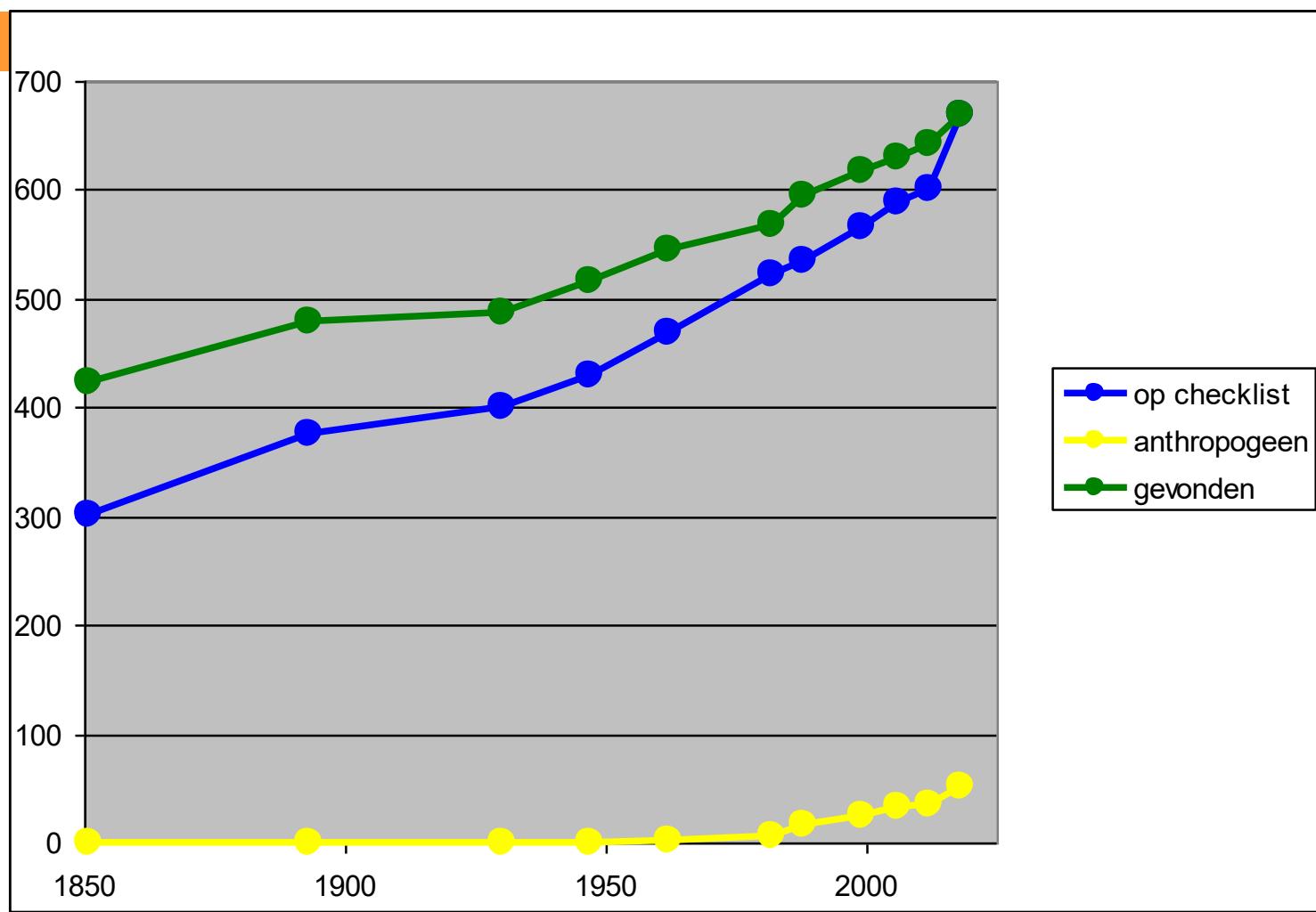
Toename (h)erkende mostaxa



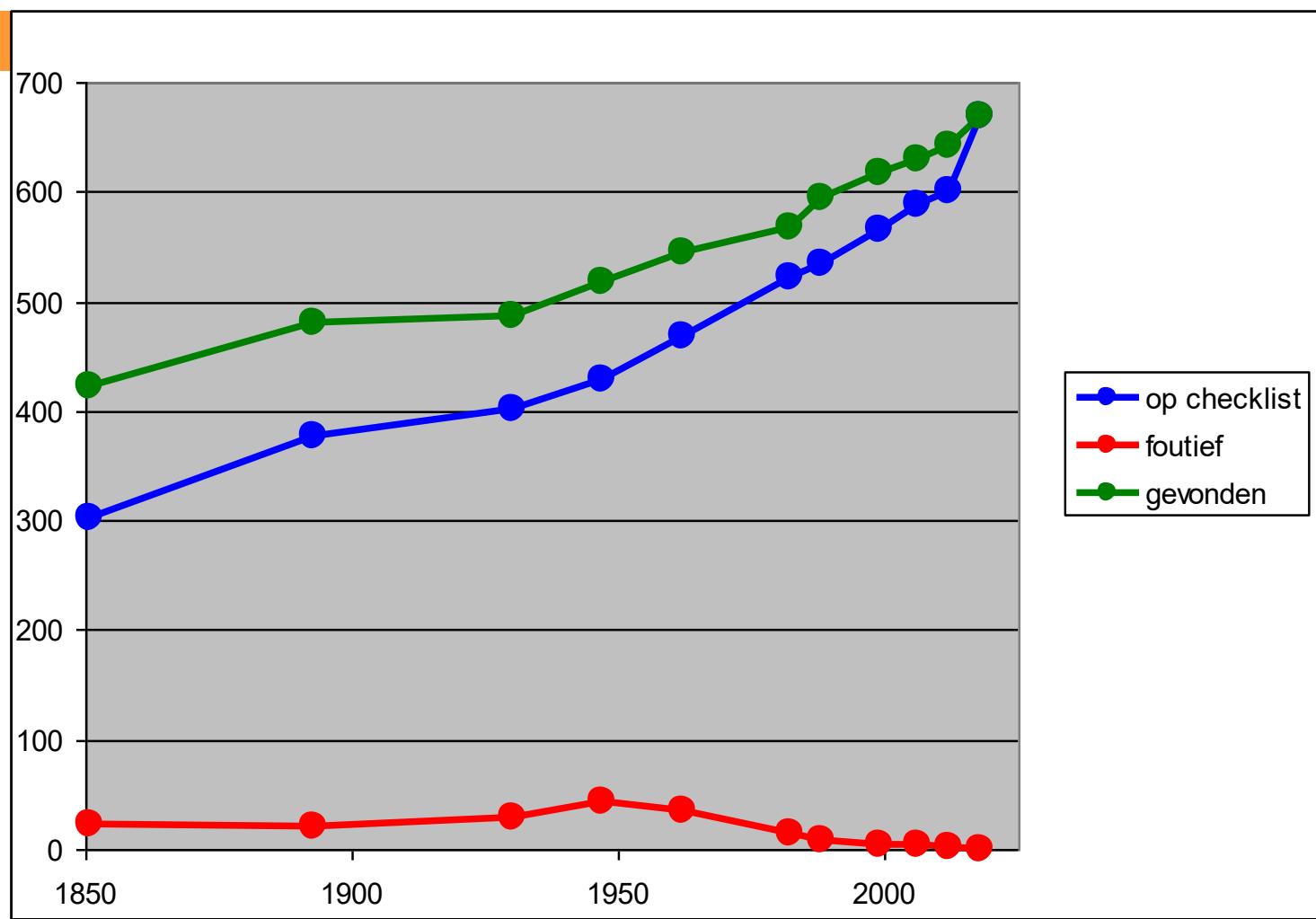
Toename gevonden mostaxa



Verschuiving door mens



Opschoning ten onrechte gemelde taxa



DNA techniek

- Kleine revolutie in het herkennen van mossoorten