

## Campus Bryophytes Key

1. Plant is thalloid..... *Marchantia polymorpha*
2. Plant is leafy.....2
  
2. Leaves are arranged in two regular rows..... *Porella cordeana*
2. Leaves are spirally arranged, not in two rows .....3
  
3. Leaves have hairpoints.....4
3. Hairpoints not present.....9
  
4. Rock, concrete or stone wall substrate.....5
4. Substrate other than rock, concrete or stone wall.....8
  
5. Sporangia is nodding.....6
5. Sporangia is erect.....7
  
6. Straight, elongate seta.....*Bryum capillare*
6. Short, curved seta..... *Grimmia pulvinata*
  
7. Gametophyte much branching.....*Racomitrium heterostichum*
7. Gametophyte not branching.....30
  
8. Plant less than 2cm in length.....*Encalypta raptocarpa*
8. Plant greater than 2cm in length.....*Polytrichum juniperinum*
  
9. Branched gametophyte.....10
9. Unbranched gametophyte.....19
  
10. Main stem leaves are squarrose.....11
10. Stem leaves not squarrose.....13
  
11. Branch leaves squarrose.....*Rhytiadelphus squarrosus*
11. Branch leaves not squarrose.....12
  
12. Irregularly branched and multipinnate.....*Kindbergia praelonga*
12. Regularly branched and once pinnate.....*Kindbergia oregana*
  
13. Contorted when dry.....*Claopodium crispifolium*
13. Not contorted when dry.....14
  
14. Leaves are falcate-secund.....*Hypnum circinale*
14. Leaves are not falcate-secund.....15
  
15. Red-brown stems.....*Rhytiadelphus loreus*

15. Stems not red-brown.....	16
16. Leaves are pleated.....	<i>Homalothecium fulgenscens</i>
16. Leaves are not pleated.....	17
17. Gametophyte yellow-green in colour.....	<i>Antitrichia curtipendula</i>
17. Gametophyte not yellow-green in colour.....	18
18. Leaf apices sharply toothed.....	<i>Isothecium stoloniferum</i>
18. Leaf apices not toothed.....	<i>Racomititium heterostichum</i>
19. Leaves falcate-secund.....	<i>Dicranum scoparium</i>
19. Leaves not falcate-secund.....	20
20. Leaves become very twisted when dry.....	<i>Dicranoweisia crispula</i>
20. Leaves not twisted when dry.....	21
21. Gametophyte wine-red to dark green in colour.....	22
21. Gametophyte yellow-green to dark green in colour.....	23
22. Leaves blunt.....	<i>Bryum minatum</i>
22. Leaves elongate and pointed.....	<i>Ceratodon purpureus</i>
23. Leaves strongly toothed.....	24
23. Leaves not strongly toothed.....	25
24. Plants yellow-green with obovate leaves.....	<i>Plagiomnium venustum</i>
24. Plants translucent dark green, leaves not obovate.....	<i>Plagiomnium insigne</i>
25. Leaves elliptical; leaf margin with a border of cells differing from those of the rest of the leaf.....	<i>Rhizomnium glabrescens</i>
25. Leaves not elliptical; leaves not bordered by differentiated cells.....	26
26. Seta pale yellow; leaves sheathing at seta base.....	<i>Funaria hygrometrica</i>
26. Seta not pale yellow; leaves not sheathing.....	27
27. Found on soil substrate.....	28
27. Found on tree, rock, stone or concrete wall substrate.....	29
28. Sporangia is nodding when mature.....	<i>Pohlia nutans</i>
28. Sporangia is erect when mature.....	<i>Ditrichum flexicaule</i>
29. Sporangia grooved and barely emergent from gametophyte; calyptra with straight, erect hairs.....	<i>Orthotrichum lyellii</i>
29. Seta elongate; sporangia smooth; calyptra hairless.....	<i>Dicranoweisia cirrata</i>

- 30. Sporophyte noticeably longer than gametophyte.....*Tortula muralis*
- 30. Sporophyte approximately same length as gametophyte.....*Tortula ruralis*