

Bryophytes sil.

*Mosses, liverworts
and hornworts*

Illustrated glossary

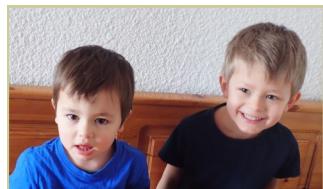
(traduction française
de chaque terme)

Leica Chavoutier

2017



A Lino et à Enzo



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Introduction

In September 2016 the following book was deposited in free download
CHAVOUTIER, L., 2016 – *Bryophytes sl. : Mousses, hépatiques et anthocérotées/Mosses, liverworts and hornworts. Glossaire illustré/Illustrated glossary*. Inédit. 179 p.

This new book is an English version of the previous one after being reviewed and expanded.

This glossary covers the mosses, liverworts and hornworts, three phyla that are related by some parts of their structures and especially by their life cycles. They are currently grouped to form bryophytes s.l.

This glossary can only be partial: it was impossible to include in the definitions all possible cases. The most common use has been privileged. Each term is associated with a theme to use, and it is in this context that the definition is given. The themes are: morphology, anatomy, support, habit, chorology, nomenclature, taxonomy, systematics, life strategies, abbreviations, ecosystems.

Photographs : All photographs have been made by the author.

Recommended reference

CHAVOUTIER, L., 2017 – *Bryophytes sl. : Mosses, liverworts and hornworts. Illustrated glossary*. Unpublished. 132 p.

Any use of photos must show the name of the author: Leica Chavoutier

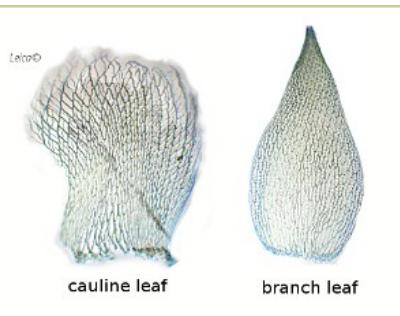
Your comments, suggestions, remarks, criticisms, are to be addressed to :
leica.bryo@orange.fr

Acknowledgements

I am very grateful to Janice Glime for its invaluable contribution. This English version benefited from its review, its comments, its suggestions, and therefore improvements. I would also like to thank Jonathan Shaw.

Example: **anisophylloous**

- . English term (or group of words): **anisophylloous**
- . (French term): (*franç. anisophylle*)
- . grammatical nature: **adj.**
- . theme of common use: **anatomy**
- . definition: having two types of leaves on the same stem, stem leaves and rameal leaves are different.
- . antonym: **[ant.isophylloous]**
- . illustration and legend: **anisophylloous (*Sphagnum fimbriatum*)**
or report to another illustration « see... »
anisophylloous (*Sphagnum fimbriatum*)



Abbreviations in definitions

- n.: noun
 suf.: suffix
 pref.: prefix
 adj.: adjective
 abb.: abbreviation
 loc.: locution, group of words
 symb.: symbol

Notes

- . For each term consider the definition in the designed theme (some of them could also be used in other themes).
- . Terms (of color, support, habitat ...) haven't needed a definition in the context of this glossary (*for the French users*). They also appear in summary tables.



plates

CLASSIFICATION

**Phylum
Bryophyta**

1 sphagnum

**Phylum
Hepaticophyta**

4 leafy liverworts



2 mosses

acrocarps
pleurocarps

3

**Phylum
Anthocerophyta**

6 hornworts



5 thallose liverworts

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Plate 1: classification : 1:*Sphagnum squarrosum* , 2:*Dicranum scoparium*,
 3:*Thuidium tamariscinum* , 4:*Jungermannia* sp. , 5:*Reboulia hemisphaerica*,
 6:*Anthoceros agrestis*.

gametophyte /sporophyte



leafy liverwort



thallose liverwort

*Marchantia polymorpha montivagans**Sphagnum squarrosum*
sphagnum*Orthotrichum pumilum*

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Plate 2: gametophyte/sporophyte

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Anthoceros agrestis
hornwort

sporophyte



Lophocolea heterophylla
leafy liverwort

Sauteria alpina
thallose liverwort



Grimmia trichophylla
moss

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Sphagnum squarrosum
sphagnum

Plate 3: sporophyte

male receptacles

(antheridiophore,
antheridium)



Marchantia polymorpha



Pellia neesiana



Rhizomnium punctatum



Tayloria acuminata



Jungermannia atrovirens

Plate 4: male receptacle

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Thallose liverworts

*Sauteria alpina**Reboulia hemisphaerica**Riccia sorocarpa**Aneura pinguis**Marchantia polymorpha**Conocephalum conicum*

Plate 5: thallose liverworts

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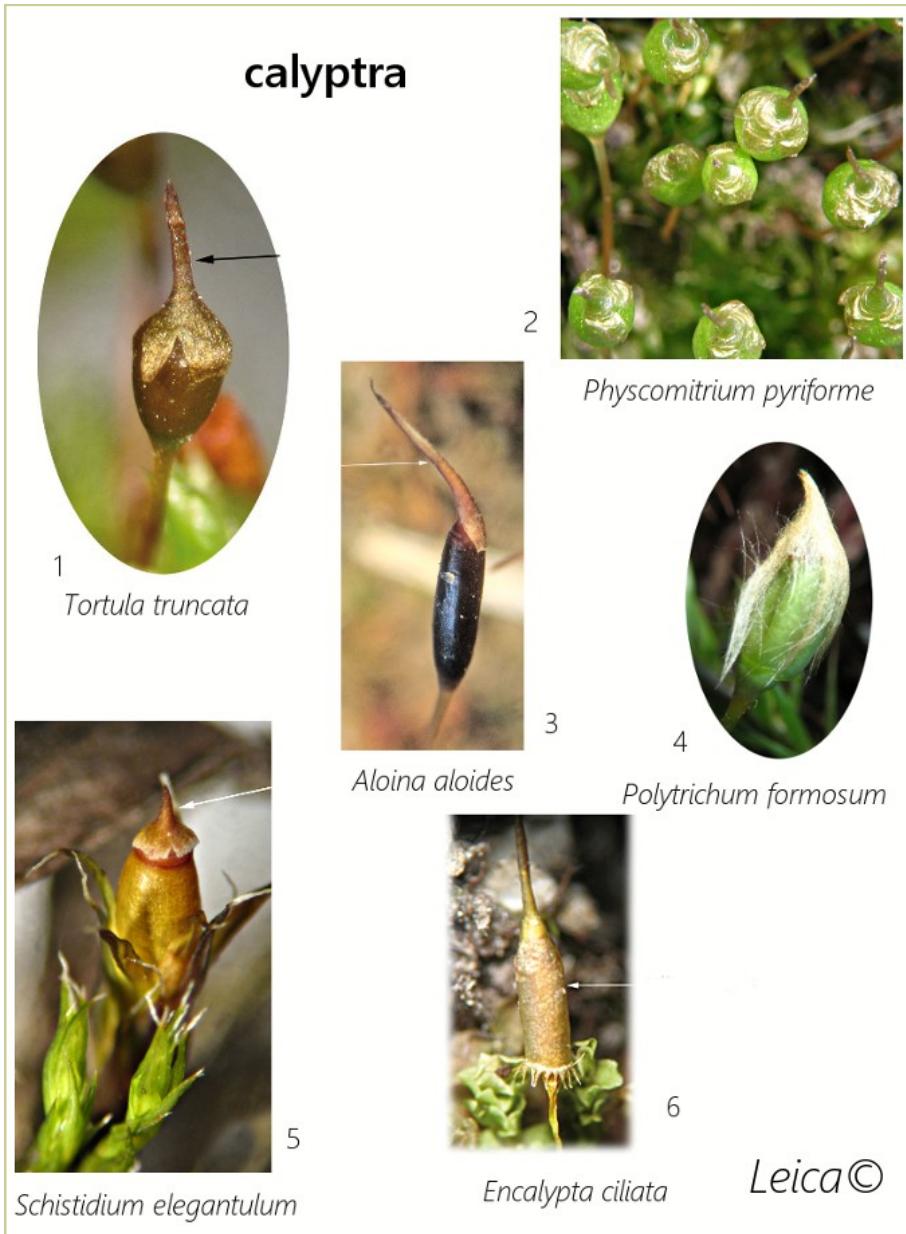


Plate 6: calyptra

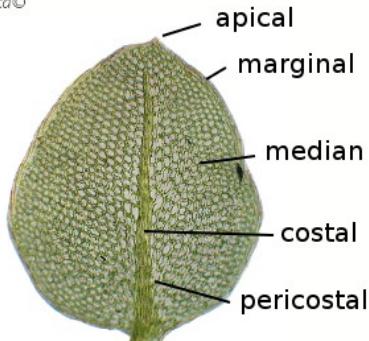
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leaf (moss)

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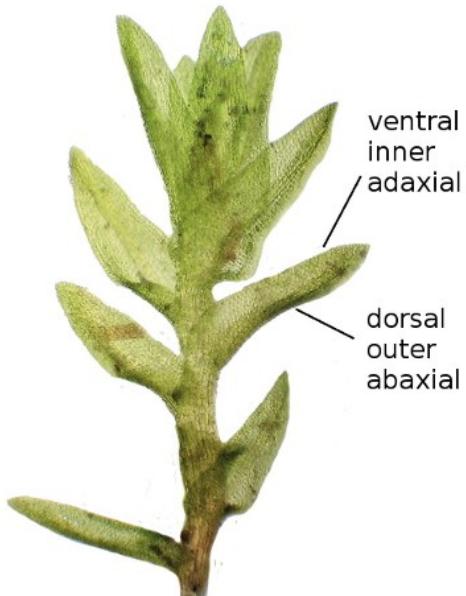
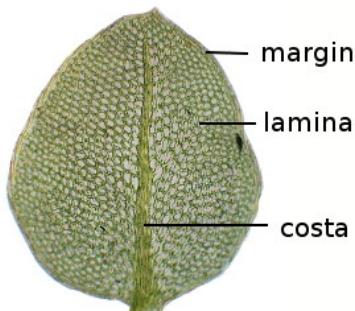
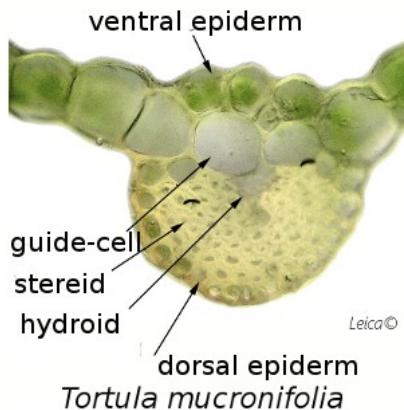


Plate 7: leaf, phyllidium (*Cyrtomnium hymenophylloides*, *Didymodon luridus*)

*Fissidens taxifolius*

nerve, rib

*Rhizomnium pseudopunctatum**Tayloria lingulata**Tortula mucronifolia**Bryum pallens**Eucladium verticillatum*

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Plate 8: nerve, rib

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propagulum, gemma

Syntrichia papillosa



Hyophila involuta



Orthotrichum lyelii



Bryum klinggraeffii



Barbula crocea



Bryum moravicum



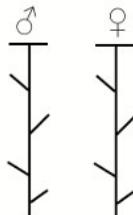
Barbula amplexifolia *Leica* ©



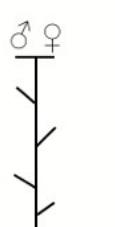
Plate 9: propagulum

distribution of gametangia

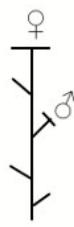
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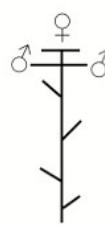
dioicous



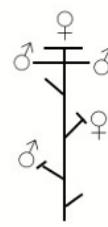
synoicous



autoicous



paroicous



heteroicous

monoicous

Plate 10: distribution of gametangia

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a- (*franç. a-*) **pref.** anatomy - prefix meaning « not » or « no ».

ab- (*franç. ab-*) **pref.** anatomy – prefix meaning « away from ».

abandoned land (*franç. friche*) **n.** habitat/ecosystem.

abaxial (*franç. abaxial*) **adj.** anatomy – relative to a surface of a leaf, dorsal, outer. [see Plate7](#)

abortive (*franç. abortif*) **adj.** anatomy - having development that is incomplete, abnormal, stopped before maturity.

abbreviations/abbreviations

aff. (*franç. aff.*) Latin « *affinis* » meaning « related to ».

auct. (*franç. auct.*), Latin « *auctor* » meaning « author ».

c. (*franç. c.*) Latin « *circa* » meaning « around, about ».

cf. (*franç. cf.*) Latin « *confer* » meaning « compare with ».

cfr. (c. fr.) (*franç. cfr. (c. fr.)*) Latin « *cum fructibus* » meaning « with sporophytes ».

cm (*franç. cm*), meaning « centimeter ».

det. (*franç. det.*), Latin « *determinavit* » meaning « determined by ».

e.g. (*franç. e.g.*), Latin « *exempli gratia* » meaning « for example ».

fo. (*franç. f.*) Latin « *forma* » meaning « form ».

ibid. (*franç. ibid.*) Latin « *ibidem* » meaning « in the same book ».

IPL (*franç. IPL*) meaning « inner peristomial layer ».

leg. (*franç. leg.*) Latin « *legit* » meaning « collected by ».

µm (*franç. µm*) de « micrometer » or « micron », length unit = 1/1 000 mm.

n (*franç. n*) chromosome number (haploid).

op. cit. (*franç. op. cit.*) Latin « *opus citatum* » meaning « mentioned, cited above ».

OPL (*franç. OPL*) meaning « outer peristomial layer ».

PPL (*franç. PPL*) meaning « primary peristomial layer ».

s.d. (*franç. s.d.*) Latin « *sine die* » meaning « without date ».

sensu (*franç. sensu*) Latin « *sensu* » meaning « in the sense (of) ».

s.l. (*franç. s.l.*) Latin « *sensu lato* » meaning « in a broad sense ».

s.n. (*franç. s.n.*) Latin « *sine numero* » meaning « without a number ».

s.s. (*franç. s.s.*) Latin « *sensu stricto* » meaning « strict sense ».

sp. (*franç. sp.*) meaning « species ».

spp. (*franç. spp.*) meaning « more than one species ».

ssp. (*franç. ssp.*) meaning « subspecies ».

var. (*franç. var.*) meaning « variety ».

achlorophyllose, achlorophylloous (*franç. sans chlorophylle*) adj. anatomy – without chlorophyll.

[ant.chlorophyllose]
see **chlorophyllose cell**.

acicole (*franç. acicole*) adj. life strategy - growing on or among needles of conifers.

acrocarpous moss
(*Weissia controversa*)
(*Orthotrichum anomalum*)



acicular (*franç. aciculaire*) adj. anatomy - elongated and sharp as a needle.

acidicline (*franç. acidicline*) adj. life strategy – preferring weakly acidic substratum.

acidophile (*franç. acidophile*) n. life strategy – plant growing on acidic substratum. [ant.basophile]

acidophilous (*franç. acidophile*) adj. life strategy – growing on acidic substratum.

[ant.basophilous]

acinaciform (*franç. acinaciforme*) adj. anatomy – saber-shaped.

acrocarp (*franç. acrocarpe*) n. anatomy – of a moss, species that produces sporophyte at apex of stem or main branch.

[ant.pleurocarp]

acrocarpous (*franç. acrocarpe*) adj. - relative to a moss, having sporophyte produced at apex of stem or main branch.

[ant.pleurocarpous]



acrogynous (*franç. acrogyne*) adj. anatomy – in many leafy liverworts, sporophyte growing at top of stem (from apical cell).

[ant.anacrogynous]

acrogynous leafy liverwort *Mesoptchia collaris* (left, female ; right, male)



actinomorphic (*franç. actinomorphe*) **adj.** anatomy – having radial symmetry, like spokes of a wheel.
[ant.zygomorphic]

acumen (*franç. acumen*) **n.** anatomy – long, pointed tip.

aculeate (*franç. aigu comme un aiguillon*) **adj.** anatomy – sharply pointed, prickly.

acuminate (*franç. acuminé*) **adj.** anatomy – gradually ending in a long, tapered tip.

acute (*franç. aigu*) **adj.** anatomy – ending in a point or an angle between 45° and 90°.

ad- (*franç. ad-*) **pref.** anatomy – prefix meaning « towards », « near ».

adaptation (*franç. adaptation*) **n.** life strategy – adjustment of an organism to survive in a habitat.

adaxial (*franç. adaxial*) **adj.** anatomy – relative to a leaf surface, towards stem or axis, ventral face, upper face. [ant.abaxial]



(*Didymodon luridus*)

adherent (*franç. adhérent*) **adj.** anatomy – strongly attached to the substratum. **adherent** (*Frullania dilatata*)



adnate (*franç. adné*) **adj.** anatomy – said of two fused structures. peristome and epiphragm **adnate** (*Atrichum undulatum*)



adsorption (*franç. adsorption*) **n.** life strategy - fixation of the elements on the surface.

aduncus (*franç. unciné*) **adj.** anatomy – hooked. (*Sanionia uncinata*)



adventitious (*franç. adventice*)
adj. anatomy – growing on an atypical place (rhizoid, stem...).
adventitious rhizoids on the rib
(Conardia compacta)



adventive (*franç. adventif*) **adj.** anatomy – introduced.

aerenchyma (*franç. aérenchyme*)
n. anatomy – in some thallose liverworts, loose parenchyma, with empty spaces between groups of cells.

aerohaline (*franç. aérohaline*) **adj.** habitat/ecosystem – subject to the influence of salty sea spray.

aerohygrophyte (*franç. aérohygrophyte*) **n.** life strategy – plant growing in habitats having high air humidity.

aerophyte (*franç. aérophyte*) **n.** life strategy – plant growing on the aerial parts of another.

aff. (*franç. aff.*) **abb.** nomenclature/taxonomy/systematic – for « *affinis* » meaning « related to ».

agg. (*franç. agg.*) **abb.** nomenclature/taxonomy/systematic – for « *aggregate* », designating a group of species which are difficult to distinguish from one another.

aggregate (*franç. agrégé*) **adj.** anatomy – clustered together.

air chamber (*franç. cavité aérifiée*) **loc.** anatomy – in some thallose liverworts : specialized air-containing cavity.

air chamber
(Marchantia polymorpha)



air pore (*franç. pore épidermique*)
loc. anatomy – in some thallose liverworts, opening of an air-chamber.
[syn.pneumathode]
see simple pore, compound pore

alar cell(s) (*franç. cellules alaires*)
adj. anatomy – group of cells located in the corners of the base of the leaf. **alar cells** (*Straminergon stramineum*)



alar cells (*Dicranum acutifolium*)

alate (*franç. ailé*) **adj.** anatomy – winged.

alder forest (*franç. aulnaie*) **n.** habitat/ecosystem – forest of *Alnus*.

alkaline (*franç. alcalin*) **adj.** habitat/ecosystem – rich in base, having a pH of more than 7.

.ales (*franç. .ales*) **suf.** nomenclature/taxonomy/systematic – suffix applied to an order (Dicrales, Orthotrichales ...).

allopatric (*franç. allopatrique*) **adj.** chorology – said of two species which have separate areas of distribution.

alluvium (*franç. alluvion*) **n.** habitat/ecosystem.

alpestrine (*franç. alpestre*) **adj.** chorology – subalpine, growing to the tree line.

alternate (*franç. alterne*) **adj.** anatomy – inserted at different levels on the stem.

alternate leaves (*Plagiochila porelloides*)

alveola (*franç. alvéolé*) **n.** anatomy – more or less polygonal surface depression.

alveolate (*franç. alvéolé*) **adj.** anatomy – with depressions on the surface.

amentulum (*franç. châton mâle*) **n.** anatomy – in *Sphagnum*, male inflorescence, resembling to a catkin.

amentulum (*Sphagnum quinquefarium*)



amorphous (*franç. amorphe*) adj.
anatomy – without definite form.

amphigastrium (*franç. amphigastre*) n. anatomy – in leafy liverworts, underleaf.
see underleaf

amphithecum (*franç. amphithécium*) n. anatomy – outer layer of the embryonic capsule.

amplexicaulous (*franç. amplexicaule*) adj. anatomy – sheathing the stem.

ana- (*franç. ana-*) pref. anatomy – prefix meaning « again », « back », « against ».

anacrogynous (*franç. anacrogynie*) adj. anatomy – designating a sporophyte growing in lateral position on a stem, branch or thallus (e.g., thallose liverworts).

[*ant.acrogynous*]

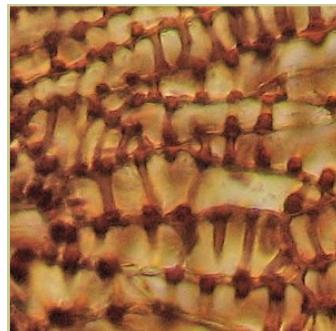
analogous (*franç. analogue*) adj.
anatomy – said of structures not having a common phylogenetic origin but having a similar function.

anastomosing (*franç. anastomosé*) adj.

. anatomy – interconnected and forming a network such as found in some ornamentalations.

. habitat – refers to a river that forms a network due to sand-bars and islands.

anastomosing tissue (endothecium)
(*Anthelia juratzkana*)



ancophile (*franç. plante vivant dans les canyons*) adj. life strategy – plant living in canyon forests.

ancophilous (*franç. vivant dans les canyons*) adj. life strategy – living in canyon forests.

androcyte (*franç. cellule mère d'un anthérozoïde*) n. anatomy – cell that will give rise to an antherozoid.

androecial branch (*franç. rameau mâle*) n. anatomy – specialized branch bearing antheridia and bracts.

androecium (*franç.andrécie, androécie*) n. anatomy – male inflorescence, antheridia and surrounding bracts.

see Plate 4

androgametophyte (*franç. androgamétophyte*) n. anatomy – male gametophyte.

see Plate 4

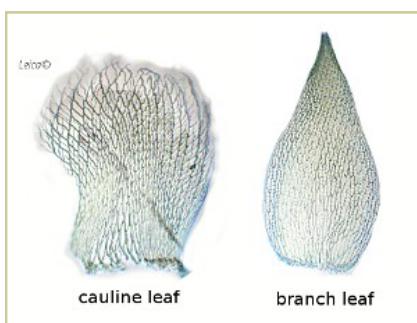
androgynous (*franç. androgyne*)
adj. anatomy – male and female organs in the same inflorescence, monoicous. see Plate 10

androgynogametophyte (*franç. androgynogamétophyte*) n. anatomy – autoicous or synoicous gametophyte. see Plate 10

anemochory (*franç. anémochorie*)
n. life strategy – dispersal by wind, such as a spore, gemma, or other propagule.

anhydrobiosis (*franç. anhydrobiose*) n. life strategy – strategy of surviving a dehydrated state or extreme temperature conditions, reviviscence.

anisophylloous (*franç. anisophylle*)
adj. anatomy – having two types of leaves on the same stem: stem (cauline) leaves and branch leaves are morphologically different.
[ant.**isophylloous**] **anisophylloous** leaves (*Sphagnum fimbriatum*)



anisosporous (*franç. anisospore*)
adj. anatomy – having two types of

spores in the same capsule.

[ant.**isosporous**]

annotinous (*franç. à croissance périodique annuelle*) adj. life strategy – with yearly growths.

annual (*franç. annuel*) adj. life strategy – life cycle is one year (sometimes less). [ant.**perennial**]

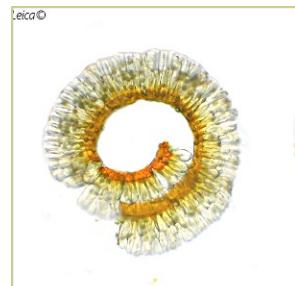
annual thallose liverwort (*Riccia glauca*)



annular (*franç. annulaire*) adj. anatomy – ring-shaped.

annulus (*franç. anneau*) n. anatomy – ring of specialized cells located between the capsule urn and its operculum.

annulus (*Ptychostomum boreale*)



anterior (*franç. antérieur*) **n.** anatomy – dorsal, abaxial. [ant.**posterior**] see Plate 7

antheridiophore (*franç. anthéridiophore*) **n.** anatomy – specialized structure bearing antheridia. see Plate 4

antheridium (*franç. anthéridie*) **n.** anatomy – male gametangium, containing antherozoids. see Plate 4



antheridium
Phaeoceros laevis

antherozoid (*franç. anthérozoïde*) **n.** anatomy – spermatozoid, male gamete.

anthracine (*franç. gris anthracite*) **adj.** color – coal black.

anthropochorous (*franç. anthropochore*) **adj.** life strategy – dispersal of propagules associated with human activities.

anthropogenic (*franç. anthropique*) **adj.** life strategy – relative to an ecosystem, resulting from action of humans.

antical (*franç. antérieur*) **adj.** anatomy – dorsal surface of a stem or thallus. [ant.**postical**]

antrorse (*franç. antrors*) **adj.** anatomy – forward, upward, toward the tip. [ant.**retrorse**]

antrorse teeth
(*Dichodontium pellucidum*)



aperture (*franç. aperture*) **n.** anatomy – opening, hole, orifice.

aperturate (*franç. aperturé*) **adj.** anatomy – with an opening.

apex (*franç. apex*) **n.** anatomy – tip, end. see leaf

aphyllous (*franç. aphylle*) **adj.** anatomy – without leaves.

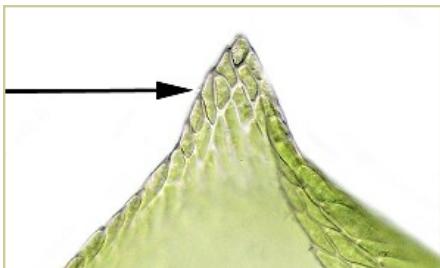
apical (*franç. apical*) **adj.** anatomy – at the tip.

apical cell (*franç. cellule apicale*) **loc.** anatomy – cell located at the apex (tip) of thallus, leaf or other organ which by divisions produces new cells and new organs. see initial cell (*Metzgeria temperata*)



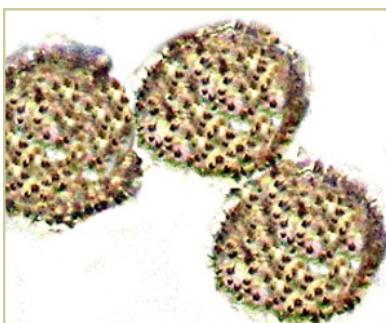
apiculate (*franç. apiculé*) **adj.** anatomy – with a short and abrupt point.

apiculus (*franç. apicule*) **n.** anatomy – short point.

apiculus (*Entodon concinnus*)

apogamy (franç. apogamie) n.
anatomy – asexual multiplication,
without fusion of gametes.
[syn. apomixis]

apolar (spore) (franç. spore apolaire) n. anatomy – spherical without distinct polarity. [ant. polar spore]
apolar spore (*Microbryum starkeanum*)



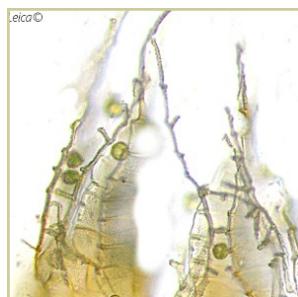
apomixis (franç. apomixie) n. anatomy – asexual multiplication, without fusion of gametes.
[syn. apogamy]

apophysis (franç. apophyse) n.
anatomy – relative to a capsule, sterile and strongly differentiated neck,
at base of capsule.
[syn. hypophysis]

**apophysis (*Polytrichum piliferum*)
(*Polytrichum formosum*)**

appendage (franç. appendice) n.
anatomy – in some thallose liverworts, outgrowth of a scale.

appendiculate (franç. appendiculé) adj. anatomy – having short, thin transverse projections (cilia of inner peristome). **appendiculate cilia (*Ptychostomum capillare*)**



appressed (franç. apprimé) adj.
anatomy – closely applied to the substratum.

**appressed
(*Frullania dilatata*)**

aquatic (*franç. aquatique*) adj. life strategy – growing in water.

arable land (*franç. terre arable*)
loc. habitat/ecosystem.

arachnoid (*franç. aranéeux*) adj.
anatomy – covered with fine and tangled hairs.

arachnoid archegoniophore
(*Marchantia polymorpha* ssp. *montivagans*)



arboreal (*franç. arboricole*) adj. life strategy – growing on trees.

archegoniophore (*franç. archégo-niophore*) n. anatomy – specialized branch bearing archegonia.

archegonium (*franç. archégone*)
n. anatomy – female sex organ, female gametangium, it contains the female gametes.

archegonium (*Cratoneuron filicinum*)



archesporium (*franç. archéspore*) n. anatomy - layer of cells which gives rise to spores.

Arctic (*franç. arctique*) adj. chorology – present in areas around the North pole.

arcuate (*franç. arqué*) adj. anatomy - curved like a bow.

arcuate capsule
(*Eurhynchium striatum*)



area (*franç. aire*) n. chorology - region of distribution.

arenicolous (*franç. arénicole*) adj. life strategy - growing on the sand.

areola (*franç. aréole*) n. anatomy - on the surface of a leaf or a thallus, small division. Areolae form a network.

areolation (*franç. aréolation*) n. anatomy - cellular network.

areolation (*Conocephalum salebrosum*)



argillicolous (*franç. argilicole*) adj. life strategy – growing on clay soils.

arid (*franç. aride*) adj. habitat/ ecosystem.

arista (*franç. arête*) n. anatomy - awn. **arista** (*Syntrichia caninervis*)



aristate (*franç. aristé*) adj. anatomy - ending in an awn.

aristate leaves (*Syntrichia ruralis*)



arthrodontous (*franç. arthrodon-*te) adj. anatomy - relative to a peristome, articulated (having thickened areas, segmented) and hygroscopic teeth (mosses). **arthrodontous** (*Orthotrichum cupulatum*)



arthrodontous (*Tetraphis pellucida*)



article (*franç. article*) n. anatomy - segment.

articulate (*franç. articulé*) adj. anatomy - segmented.

ash (*franç. frêne*) n. support - tree in genus *Fraxinus*.

ascending (*franç. ascendant*) adj. anatomy - curving upwards.

asexual multiplication (*franç. multiplication asexuée*) loc. anatomy - reproduction not resulting from the fusion of gametes, vegetative reproduction.

see **Plate 9**

aspen (*franç. tremble*) n. support - tree in the genus *Populus*.

(bryo-lichen) association (*franç. association bryo-lichénique*) loc. life strategy - vegetable association consisting of bryophytes and lichens.

astomous, astmomatos (*franç. astome*) adj. anatomy - without stoma, indehiscent (capsule), without operculum or valves.

astomatous (*Microbryum rectum*)



astomatos
(*Microbryum rectum*)

atratus (*franç. noirci*) **n.** anatomy - turning black.

attenuate (*franç. atténué*) **adj.** anatomy - tapering.

auct. (*franç. auct.*) **abb.** nomenclature/taxonomy/systematic - Latin abbreviation « *auctor* » meaning « author ».

auricle (*franç. oreillette*) **n.** anatomy - group of specialized cells located in the corners of the base of leaf, forming an ear-like lobe. **auricle**



(*Brachythecium rivulare*)



(*Cratoneuron filicinum*)

auriculate (*franç. auriculé*) **adj.** anatomy - with auricles.

austral (*franç. austral*) **adj.** chorology - of the Southern Hemisphere.

author(s) (*franç. auteur(s)*) **n.** nomenclature/taxonomy/systematic - name (s) of bryologist(s) (sometimes abbreviated) who contributed to the taxonomic history and nomenclature of the taxon.

autoicous (*franç. autoïque*) **adj.** anatomy - male and female organs on the same plant but in distinct inflorescences.

see Plate 10

awn (*franç. poil*) **n.** anatomy - hair-point.



awn (*Syntrichia montana*)

axil (leaf axil) (*franç. aisselle d'une feuille*) **n.** anatomy - inner space between the leaf and the stem.

axial strand (*franç. faisceau axial*) **loc.** anatomy - column formed of elongated cells and located in the center of some stems or thalli.
see central strand

axillary (*franç. axillaire*) **adj.** anatomy - located in the axil of a leaf or a bract, the point of insertion with a stem.

axillary propagules (*Bryum dichotomum*)



axillary hair (*franç. poil axillaire*)
loc. anatomy - multicellular filament located in the leaf axis.
axillary hair (*Tayloria lingulata*)



axillary hair (*Drepanocladus aduncus*)



CHAVOUTIER, L., 2017 – *Bryophytes sl. : Mosses, liverworts and hornworts. Illustrated glossary.* Unpublished. 132 p.

axis (*franç. axe*) n. anatomy - main stem. see Plate 7



bank (*franç. berge, rive*) n. habitat/ ecosystem.

barbate (*franç. barbu*) adj. anatomy - with tufts of long hairs, beard-like. see hairy, hirsute

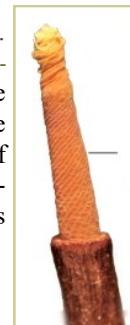
bark (*franç. écorce*) n. support.

basal (*franç. basal*) adj. anatomy - at the proximal end of the structure, forming bottom or base.

basal cells (*franç. cellules basales*)
loc. anatomy - group of cells located at the base, in the proximal part of the leaf.

basal membrane (*franç. membrane basale*) adj. anatomy - short cylinder at the base of a peristome (single peristome) or at the base of endostome (double peristome) supporting segments and cilia.

basal membran
(*Tortula subulata*)



base (*franç. base*) n. anatomy - part located at the proximal end of the structure.

basic (*franç. basic*) adj. habitat/ecosystem - alkaline, containing a base, having a pH higher than 7.

basionym (*franç. basionyme*) n. nomenclature/taxonomy/systematic - original name on which the current taxon name is based.

basiphile (*franç. basophile*) adj. life strategy - preferring basic habitats (limestone, sandstone, chalk, dolomite...). [ant.acidophile]

beak (*franç. bec*) n. anatomy - elongated apex. **beak** (of a calyptra) (*Encalypta alpina*)



(of a operculum) (*Eurhynchium striatum*)



beech (*franç. hêtre*) n. support - member of the genus *Fagus* or *Nothofagus*.

bi- (*franç. bi-*) pref. anatomy – prefix meaning « two ».

bicolorous (*franç. bicolore*) adj. color. having two different colors .

bicolorous
(*Barbula bicolor*)



biconvex (*franç. biconvexe*) adj. anatomy – with two opposing convex (outwardly curved) surfaces.

bicostate (*franç. binervuré*) adj. anatomy – with two nerves.

bicuspidate (*franç. bicuspidé*) adj. anatomy – with two points.

bicuspidate
leaves

(*Cephalozia lunulifolia*)



(*Lophocolea bidentata*)

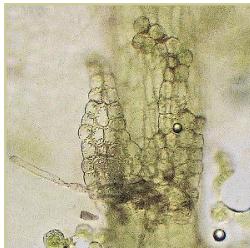


bidentate (*franç. bidenté*) adj. anatomy - with two teeth (different from « double teeth »).

biennial (*franç. bisannuel*) adj. life strategy - cycle of two season's duration (generally less than two years).

bifarious (*franç. bifarié*) adj. anatomy - on two opposite rows, distichous.

bifid (*franç. bifide*) adj. anatomy—deeply divided into two parts.



bifid underleaf
(*Lophocolea minor*)

biflagellate (*franç. biflagellé*) adj. anatomy - with two flagella.

bifurcate (*franç. bifurqué*) adj. anatomy - divided into two equal parts.

bigeminate (*franç. bigéminé*) adj. anatomy - doubly paired, i.e. in fours.

bilobate (*franç. bilobé*) adj. anatomy - divided into two lobes or segments.

binomial (*franç. binôme*) n. nomenclature/taxonomy/systematic—an expression used to designate species. It is

formed of two Latin terms : a generic and a specific term. By convention this binomial is written in italics.

biocenosis (*franç. biocénose*) n. life strategy - association of different organisms living together in a habitat.

biotope (*franç. biotope*) n. habitat/ecosystem - ensemble of physical, chemical and climatical conditions of a habitat. Biotope plus biocenosis form an ecosystem.

bipartite (*franç. bipartite*) adj. anatomy - deeply divided into two parts.

bipinnate (*franç. bipenné*) adj. anatomy - twice pinnately branched.
bipinnate pleurocarp (*Abietinella abietina*)



bipolar (*franç. bipolaire*) adj. chorology - said of a species found at both polar regions.

birch (*franç. bouleau*) n. support - members of the genus *Betula*.

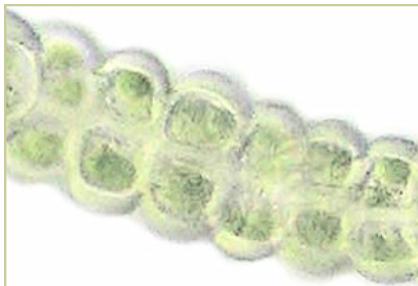
birch forest (*franç. bétulaie*) n.
habitat/ecosystem - forest where *Betula* is the dominant species.

biseriate (*franç. bi-sérié*) adj. anatomy - in two rows.

bisexual (*franç. bi-sexué*) adj. anatomy - monoicous.
see Plate 10

bistratose (*franç. bistrate*) adj. anatomy - having two layers of overlapping cells.

bistratose lamina (*Fissidens dubius*)



black (*franç. noir*) adj. color.

blackish (*franç. noircissant*) adj. color - almost black.

blackish-green (*franç. vert-noirâtre*) adj. color - dark green.

blackthorn (*franç. prunellier*) n. support - *Prunus spinosa*.

blade (*franç. limbe*) adj. anatomy - portion of leaf (*Polytrichum*).

bloom (*franç. pruine*) adj. anatomy - powder covering some capsules or leaves.

bloom (*Saelania glaucescens*)



blue (*franç. bleu*) adj. color.

bog (*franç. tourbière haute, t. ombrrophe*) loc. habitat/ecosystem.

bog moss (*franç. sphaigne*) loc. anatomy - *Sphagnum*.

bordered (*franç. bordé*) adj. anatomy - with a distinct margin (cells are different than other cells of the tissue).

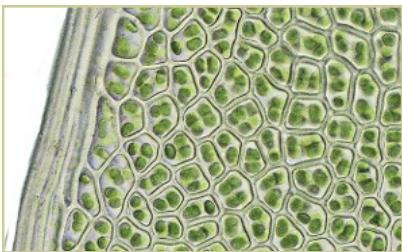
bordered (*Cinclidium stygium*)



border (*franç. lisière*) n. habitat/ecosystem.

border, edge (*franç. bordure*) n. anatomy - margin (cells that are different in shape, size, or color... than the other cells of the structure).

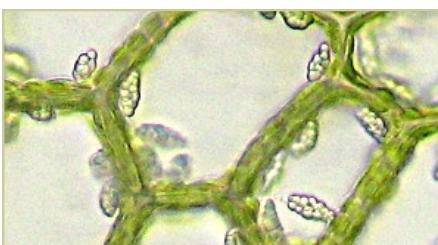
border, edge (*Mnium thomsonii*)



boreal (*franç. boréal*) adj. chorology - in the areas near the northern pole. (temperate region dominated by taiga, coniferous forests).

botryoid (*franç. botryoïde*) adj. anatomy - like a bunch of grapes.

botryoid oil-bodies (*Calypogeia suecica*)



bottle-shaped (*franç. lagéniforme*) adj. anatomy - flask-shaped. **bottle-shaped cells** (*Conocephalum conicum*)



box tree (*franç. buis*) n. support - in genus *Buxus*, boxwood.

bract(s) (*franç. bractée(s)*) n. anatomy - modified leaves surrounding archegonia, antheridia or gemmae -cups. see **(perichaetial) leaves**, **(perigonial) leaves**

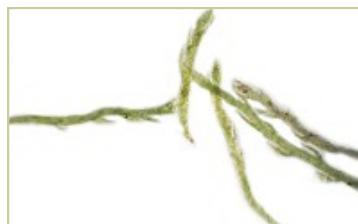
bracteole (*franç. bractéole*) n. anatomy - modified underleaf associated with gametangium (in leafy liverworts).

branch (*franç. branche, rameau*) n. anatomy - lateral subdivision of a stem or an axis.

branch (fascicle) (*franç. faisceau*) see *Sphagnum*

(pendent-) branch (*franç. rameau pendent*) loc. anatomy - branch that hangs down in *Sphagnum*. see *Sphagnum*

(propagule) branch (*franç. rameau propagule*) n. anatomy - modified branch, having a vegetative propagation function by detaching. **propagule branch** (*Pseudotaxiphyllum elegans*)



breadth (*franç. largeur*) n. anatomy - dimension opposite to the length, width.

brittle (*franç. cassant*) adj. anatomy - breaking easily.

broadleaved tree (*franç. feuillu*) n. support.

brood body (*franç. propagule*) n. anatomy - generalized term for propagulum, gemma, bulbil, tuber, reduced branch... see Plate 10

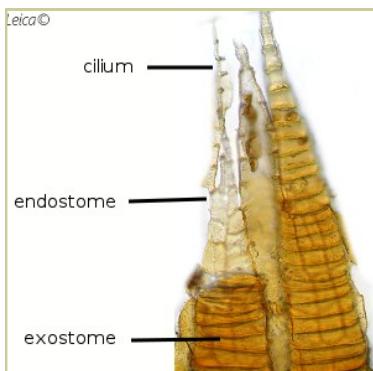
brook, stream (*franç. ruisseau*) n. habitat/ecosystem.

brown (*franç. brun*) adj. color.

brush (*franç. broussaille*) n. habitat/ecosystem - undergrowth of small trees and shrubs.

bryoid (*franç. bryoïde*) adj. anatomy - « perfect » peristome, diplolepidoous peristome including an exostome and an endostome with segments and cilia.

bryoid peristome (*Bryum pallens*)



bryophyte, bryophyte s.l. (*franç. bryophyte*) n. nomenclature/taxonomy/systematic - plant lacking lignified

vascular tissue, with gametophyte generation dominant and sporophyte generation ephemeral, comprising mosses, liverworts and hornworts.

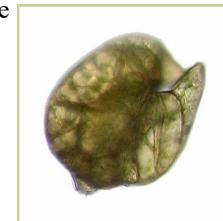
bryophyte association (*franç. association bryophytique*) loc. life strategy - group of bryophytes growing in the same ecological conditions.

bud (*franç. bourgeon*) n. anatomy - . structure produced by the protonema. . outgrowth that will give rise to stem, branch or inflorescence.
bud (*Plagiothecium nemorale*)



buffer zone (*franç. zone tampon*) loc. chorology - zone between two biogeographical or habitat entities.

bulbil (*franç. bulbille*) n. anatomy - vegetative bud-like propagule.



axillary bulbil (*Pohlia andrewsii*)



bulbous, bulbiform (*franç. bulbeux, bulbiforme*) adj. anatomy - bulb-shaped.

bush (*franç. arbuste, buisson*) n. support - shrub.

bushy (*franç. buissonneux*) adj. habit - growing thickly and resembling a bush.

burrow (*franç. terrier*) n. habitat/ecosystem - hole or tunnel dug by an animal.

tufts.

caespitose habit (*Grimmia pulvinata*)



caesious (*franç. gris bleuâtre*) adj. color - bluish grey.

calcareous (*franç. calcaire*) adj. support - mostly or partly composed of calcium carbonate (lime).

calcicole (*franç. calcicole*) adj. life strategy - growing on limy substratum. [ant.calcifuge]

calcifuge (*franç. calcifuge*) adj. life strategy - growing on acidic (or base-poor) substratum(having a pH lower than 7). [ant.calcicole]

calciphile (*franç. calciphile*) adj. life strategy - preferring basic substratum.

calyptra (*franç. calyptra, coiffe*) n. anatomy - membrane that covers the sporophyte, developed from archegonium. see Plate 6

campanulate (*franç. campanulé*) adj. anatomy - bell-shaped.

c. (*franç. c.*) abb. nomenclature/taxonomy/systematic - Latin abbreviation for « *circa* » meaning « about ».

caducous (*franç. caduc*) adj. anatomy - deciduous.

caespitose (*franç. cespiteux*) adj. anatomy - growing in cushions or



campanulate calyptra
(*Grimmia elatior*)

canal (cells) (*franç. cellules du canal*) n. anatomy - in the neck of an archegonium, central row of cells (the sperm uses this channel to join the egg). **archegonium canal** (*Cratoneuron*



canaliculate (*franç. canaliculé*) adj. anatomy - channeled.

cancellate (*franç. cancellé*) adj. anatomy - lattice-like.

canescent (*franç. canescence*) adj. color - whitish or hoary.

canescent (*Racomitrium gr. canescens*)



capillary (*franç. capillaire*) adj. anatomy - thin as a hair.

capitate (*franç. capitonné*) adj. anatomy - rounded and compact like a head.

capitulum (*franç. capitulum*) n. anatomy - in *Sphagnum*, young branches grouped at the top of the stem and having the appearance of a head. **capitulum** (*Sphagnum girgensohni*)



capsule (*franç. capsule*) n. anatomy – part of the sporophyte containing the spores-bag. **see Plate 3**

capsule (*Brachytheciastrum velutinum*)



carinate (*franç. caréné*) adj. anatomy - keeled.

carneous (*franç. carné*) adj. color – flesh-colored.

carpocephalum (*franç. chapeau femelle*) loc. anatomy – in complex thallose liverworts, the sporangial receptacle.

carpocephalum (*Sauteria alpina*)

cartilaginous (*franç. cartilagineux*) adj. anatomy - firm and tough, often hyaline.

castaneous (*franç. châtaignier*) adj. color - chestnut-colored.

catenulate (*franç. caténulé*) adj. anatomy - chain-like.

catenulate branches (*Pterogonium gracile*)



caulescent (*franç. caulescent*) adj. anatomy - with a caulidium, a stem.
[ant. acaulescent]

caulidium (*franç. caulidium*) n. anatomy - stem. see Plate 7

cauline (*franç. caulinaire*) adj. anatomy - relative to a leaf, inserted on the stem.

cauline leaf (*Thuidium tamariscinum*)

caulis (*franç. caule*) n. anatomy - stem. see **caulidium**, Plate 7

caulonema (*franç. caulonéma*) n.

anatomy - second stage of the protonema (chloronema is the first stage), having long cells with slanted crosswalls; stage giving rise to buds.

cave (*franç. caverne, grotte*) n. habitat/ecosystem.

cavernicolous (*franç. cavernicole*) adj. life strategy - preferring caves and cavities.

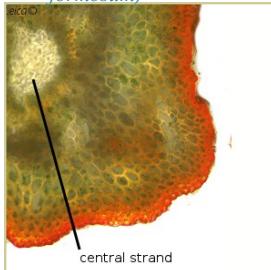
cavernose (*franç. caverneux*) adj. anatomy - with cavities.

CD (*franç. CD*) abb. Protection - Conservation Dependent.

cell (*franç. cellule*) n. anatomy - microscopic element of a living tissue; in bryophytes, having nucleus (containing genetic material), cytoplasm, and organelles, surrounded by cell membrane and cell wall.

cellular (*franç. cellulaire*) adj. anatomy - relative to a cell.

central strand (*franç. cordon central*) loc. anatomy - relative to a stem, column of elongate cells forming a central axis. **central strand** *Polytrichum formosum*



central cells (*franç. cellules guide*)
loc. anatomy - see *guide cells*

cereus, ceraceus (*franç. cireux*)
adj. color - waxy.

cernuous (*franç. pendant*) adj.
anatomy – drooping.

cf. (*franç. cf.*) abb. nomenclature/
taxonomy/systematic - Latin abbreviation « *confer* » meaning « compare
with ».

cfr. (c. fr.) (*franç. cfr. (c. fr.)*) abb.
nomenclature/taxonomy/systematic - Latin
abbreviation « *cum fructibus* »
meaning « with sporophytes ».
cfr. (Grimmia elatior)



chalk (*franç. craie*) n. support - li-
mestone.

channelled (*franç. canaliculé*) adj.
anatomy - hollowed, keeled.

character (*franç. caractère*) n.
anatomy - criterion.

chasmocolous (*franç. chasmo-
phyte*) adj. life strategy - growing in
crevices or cracks.

cherry (*franç. cerisier*) n. support -
some members of genus *Prunus*.

chersophilous (*franç. chersophile*)
n. life strategy – growing on poor
and dry habitats.

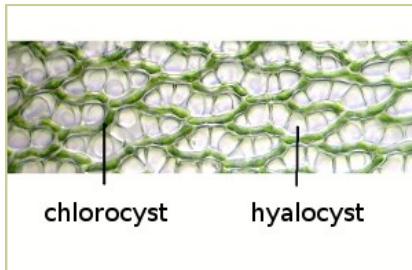
chestnut (*franç. châtaignier*) n.
support - genus *Castanea*.

chionophilous (*franç. chionophile*)
adj. life strategy - growing in habi-
tats with a long cover of snow,
snow-beds.

chledophilous (*franç. vivant dans
les terrains vagues, les habitats
perturbés*) adj. life strategy - growing
in disturbed habitats.

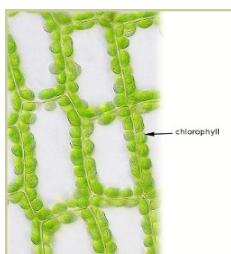
chlorenchyma (*franç. chlorenchy-
me*) n. anatomy - parenchyma cells
with chlorophyll.

chlorocyst (*franç. chlorocyste*) n.
anatomy - in *Sphagnum*, *Leuco-
bryum*, ... chlorophyllose cell
(hyalocyst is a non chlorophyllose
cell).

chlorocyst (*Sphagnum fimbriatum*)**chloronema** (*franç. chloronéma*)

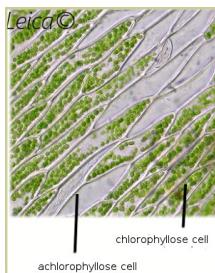
n. anatomy - first stage of the protonema (caulonema is the second stage).

chlorophyll (*franç. chlorophylle*) n.
anatomy - green pigment present in some cells (role in photosynthesis).



chlorophyll
(*Tayloria lingulata*)

chlorophyllose (*franç. chlorophyllien*) adj. anatomy - containing chlorophyll (the color is green, sometimes hidden by other pigments). [ant.achlorophyllose]



chlorophyllose cell
(*Plagiothecium platyphyllum*)

chlorophyllose cell

achlorophyllose cell

chloroplast (*franç. chloroplaste*) n.
anatomy - organelle of the cell that contains chlorophyll.

chorology (*franç. chorologie*) n.
chorology - study of geographical or spatial distribution of species.

chromatography (*franç. chromatographie*) n. anatomy - type of analysis of the chemical constituents.

chromosome (*franç. chromosome*)
n. anatomy - element of a cell nucleus containing genes.

ciliate (*franç. cilié*) adj. anatomy - with cilia, fringed.
ciliate leaf (*Ptilidium pulcherrimum*)



cilium (*franç. cil*) n. anatomy - appendage very fine as a hair.

cineraceous (*franç. cendré*) adj.
color - ash-colored.

circinate (*franç. circiné*) adj.
anatomy - curved, very arched, almost in a circle.

circinate leaves (*Sanionia uncinata*)



circumboreal (*franç. circumbo-réal*) adj. chorology - widespread in the higher latitudes of the Northern Hemisphere.

circumpolar (*franç. circumpolai-re*) adj. chorology - present in the areas located between 75° and 90° north and south latitude.

circumtropical (*franç. circumtro-pical*) adj. chorology - present in tropical areas around the world.

cirrate, cirrose (*franç. cirré*) adj. anatomy - curled, wavy (appendages).

clade (*franç. clade*) n. nomenclature/taxonomy/systematic - group of taxa having a common ancestor.

cladistics (*franç. cladistique*) n. nomenclature/taxonomy/systematic - science of comparison of the taxa according to proportion of measurable characteristics they have in common.

cladocarpous (*franç. cladocarpe*) adj. anatomy - with sporophyte formed at the end of short lateral branches.

cladocarpous moss
(*Cinclidotus fontinaloides*)



class (*franç. classe*) n. nomenclature/taxonomy/systematic - subdivision of a phylum, next major classification level below phylum.

clathrate (*franç. cancellé*) adj. anatomy - perforate.

clavate, claviform (*franç. clavi-forme*) adj. anatomy - club-shaped.

clay (*franç. argile*) adj. support.

clear (*franç. clair*) adj. color - transparent.

clearing (*franç. clairière*) n. habitat/ecosystem - having no forest cover.

cleistocarpous (*franç. cléistocar-pe*) adj. anatomy - relative to a capsule, without operculum or valves, opening by disruption of the tissues of the wall.

[ant.stegocarpous]

cleistocarpous capsule
(*Microbryum rectum*)



cliff (*franç. falaise*) n. habitat/ecosystem.

cliff ledge (*franç. rebord de falaise*) loc. habitat/ecosystem.

.cline (*franç. .cline*) suf. life strategy - suffix meaning «preferring to».

cline (*franç. gradient*) n. anatomy - degree or nuance of a variation.

clone (*franç. clone*) n. anatomy - population produced vegetatively from a single propagulum or spore.

collenchymatous (*franç. collenchymateux*) adj. anatomy - relative to cells, walls thickened at the angles (named trigones in liverworts).

collenchymatous cells
(*Mnium marginatum*)



clump (*franç. touffe*) n. anatomy - cushion-like.



clump
(*Dicranum scoparium*)

cm (*franç. cm*) abb. measure of length - abbreviation of « centimeter ».

coastline (*franç. littoral*) n. habitat/ecosystem.

cochleariform (*franç. cochléaire-forme*) adj. anatomy - concave, spoon-shaped.

coelocaule (*franç. coelocaule*) adj. anatomy - in some leafy liverworts, fleshy organ located at the base of a young sporophyte (a type of perigynium).

.colous (*franç. .cole*) suf. life strategy - suffix meaning "growing."

collum (*franç. col*) n. anatomy - relative to a capsule, neck, base.

see **urna**

colony (*franç. colonie*) n. life form - population. **colony**
(*Weissia controversa*)



coloring (*franç. coloration*) n. color.

color (*franç. couleur, teinte*) adj. color.

color/color

anthracite grey (*franç. gris anthracite*)
bicolorous (*franç. bicolore*)
black (*franç. noir*)
blackish (*franç. noirissant*)
blackish-green (*franç. vert-noirâtre*)
blue (*franç. bleu*)

bright-green (*franç. vert vif*)
 brunneus (*franç. brun*)
 canescent (*franç. canescant*)
 carneous (*franç. carné*)
 castaneous (*franç. châtain*)
 cereus, ceraceous (*franç. cireux*)
 cineraceous (*franç. cendré*)
 clear (*franç. clair*)
 concolorous (*franç. concolore*)
 dark (*franç. foncé, sombre*)
 decolorate (*franç. décoloré*)
 diaphanous (*franç. diaphane*)
 dull (*franç. terne*)
 ferruginous, ferruginous (*franç. ferrugineux*)
 fulvous (*franç. sauve*)
 fuscous (*franç. brun-gris*)
 glaucous (*franç. glauque*)
 glossy (*franç. vernissé*)
 green (*franç. vert*)
 grey (*franç. gris*)
 hyaline (*franç. hyalin*)
 lustrous (*franç. lustré*)
 luteus (*franç. jaune*)
 nitidous (*franç. nitide*)
 olivaceous (*franç. olivacé*)
 opaque (*franç. opaque*)
 pale (*franç. pâle*)
 pale green (*franç. vert pâle*)
 reddish (*franç. rougeâtre*)
 rosaceous (*franç. rosé*)
 rubescent (*franç. rubescant*)
 rufous (*franç. roux*)
 stramineous (*franç. straminé*)
 verdigris (*franç. vert-de-gris*)
 violet (*franç. violet*)
 white (*franç. blanc*)

columella (*franç. columelle*) **n.**
 anatomy – sterile column located in the center of the capsule.

columella (*Schistidium crassipilum*)



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commissural (*franç. commissural*)
adj. anatomy – said of some *Sphagnum* pores, located along the margins of hyalocysts.
 see (*commissural*) pore

commissure (*franç. commissure*)
n. anatomy - in *Sphagnum* tissue, margin of hyalocysts, junction between hyalocysts and chlorocysts.

common (*franç. commun*) **adj.** chorology - relative to a species : widespread.

complanate (*franç. aplani*) **adj.** anatomy - flattened into one plane.
 complanate leaf (*Fissidens dubius*)



complex thallus (*franç. thalle complexe*) **adj.** anatomy - multilayered thallus with differentiated internal structures. see (*complex*) thallus

compound pore (*franç. pore composé*) **loc.** anatomy - opening in thallus surrounded by multiple layers of cells. see (*compound*) pore

compressed (*franç. comprimé*)
adj. anatomy - flattened.

compressed perianth (*Radula complanata*)

concave (*franç. concave*) adj. anatomy - not plane, curved inwards.
[ant.**convex**]

concave leaf (*Nyholmiella obtusifolia*)

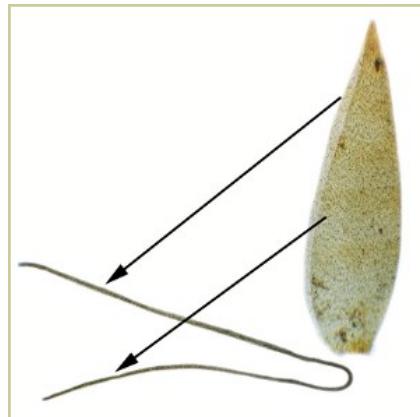


concave leaf (*Pottiopsis caespitosa*)



concolorous (*franç. concolore*) adj. color - of same color.

conduplicate (*franç. condupliqué*)
adj. anatomy - folded, lengthwise.

conduplicate leaf
(*Fontinalis antipyretica*)

conduplicate-bilobate (*franç. condupliqué-bilobé*) adj. anatomy - with two-lobed folded lengthwise.
conduplicate-bilobate leaf
(*Scapania scandica*)



confervoid (*franç. confervoïde*)
adj. anatomy - filamentous, similar to confervae.

confluent (*franç. confluent*) adj. anatomy - merging together.

confluent leaves (*Schistotega pennata*)



congeneric (*franç. congénérique*)
adj. nomenclature/taxonomy/systematic - said of two taxa belonging to the same genus.

conical (*franç. conique*) adj. anatomy - cone-shaped.

conifer (*franç. conifère*) n. support.

connate (*franç. conné*) adj. anatomy - said of two similar fused structures.

connivent (*franç. connivent*) adj. anatomy - converging but non-fusing. **connivent lobes** (*Cephalozia connivens*)



conspecific (*franç. conspécifique*)
adj. nomenclature/taxonomy/systematic - said of taxa belonging to the same species.

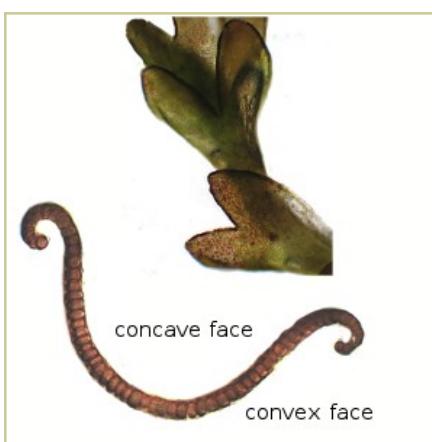
contiguous (*franç. contigu*) adj. anatomy - relative to two adjacent non-merged parts.

contracted (*franç. contracté*) adj. anatomy - abruptly constricted.

contorted (*franç. contourné*) adj. anatomy - twisted.

convex (*franç. convexe*) adj. anatomy - outward-curved surface.

convex/concave face
(*Gymnomitrium convolutum*)



convoluted (*franç. convoluté*) adj. anatomy - inrolled and forming a sheath.

coppice (*franç. taillis*) n. habitat/ecosystem.

cordate (*franç. cordé, cordiforme*) adj. anatomy - heart-shaped.

coriaceous (*franç. coriace*) adj.
anatomy - leathery.

cornfield (*franç. champ de maïs*)
loc. habitat/ecosystem.

corn-oak (*franç. chêne-liège*) n.
support.

cortex (*franç. cortex*) n. anatomy – stem tissue located between the central strand and epidermis.

cortical (*franç. cortical*) adj. anatomy – relating to the cortex cells.

corticulous (*franç. corticole*) adj.
life strategy - growing on tree bark.

cosmopolitan (*franç. cosmopolite*) adj. chorology- present in almost all parts of the world.

costa (*franç. costa, côte*) n. anatomy
- nerve, rib of a leaf or a thallus.
see Plate 8

costate (*franç. nervuré*) adj. anatomy
- with a nerve, a midrib.

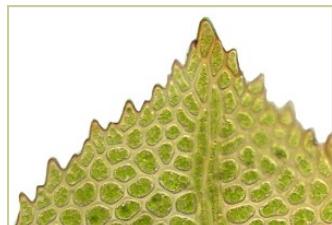
CR (*franç. CR*) abb. protection - Critically Endangered.

crag (*franç. rocher escarpé*) loc.
habitat/ecosystem.

crenate, crenulate (*franç. créné, crénélisé*) adj. anatomy - with rounded teeth.

crenate-dentate (*franç. crénelé-denté*) adj. anatomy - with sharp teeth and rounded teeth.

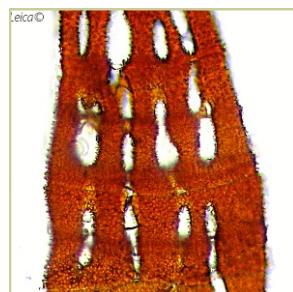
crenate-dentate margin
(*Fissidens osmundooides*)



crenophilous (*franç. crénophile*)
adj. anatomy - dwelling in or near a spring.

crevice (*franç. anfractuosité*) n.
habitat/ecosystem.

cristose (*franç. criblé*) adj. anatomy
- finely perforated. **cristose peristome**
(*Grimmia crinitoleucophaea*)



crisped (*franç. crispé*) adj. anatomy - wavy, variously curled or twisted.

crispate (*franç. crispé, crêpu*) adj.
anatomy - wavy.

crispate aspect (*Anthoceros agrestis*)



cristate (*franç. crêté*) adj. anatomy - with one or more ridges. **cristate** spore (*Microbryum starkeanum*)



cruciate (*franç. cruciforme*) adj. anatomy - cross-shaped.



cruciate pore
(*Preissia quadrata*)

crymocolous (*franç. cryophile*) adj. life strategy - growing in tundra or polar regions.

cryophile (*franç. cryophile*) adj. life strategy - preferring cold habitats.

cryptopore (*franç. cryptopore*) adj. anatomy - relative to a stomate, guard cells are hidden by exothelial cells. [ant.**phaneropore**] **cryptopore** pore (*Orthotrichum alpestre*)



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CS (*franç. TS*) loc. preparation - transverse section, cross section.

cucullate (*franç. cucullé*) adj. anatomy - spoon-shaped.

cucullate apex
(*Trichostomum crispulum*)



cucullate calyptra (*Trematodon ambiguus*)



cultriform (*franç. cultriforme*) adj. anatomy - curved and asymmetric, knife-shaped.

cuneate (*franç. cunéiforme*) adj. anatomy - wedge-shaped.

(gemma) cup (*franç. corbeille à propagules*) loc. anatomy - in some thallose liverworts, outgrowth of the thallus, cup-shaped containing gemmae. **gemmae-cup**
(*Marchantia polymorpha*)



. in the species *Tetraphis pellucida*, group of differentiated leaves forming a cup. **see splash-cup**

cupulate (*franç. cupulé*) adj. anatomy - cup-shaped.

cupuliform (*franç. cupuliforme*) adj. anatomy - cupola-shape.

cushion-forming (*franç. coussinet, en coussin*) n. anatomy - relative to a habit, half-sphere shaped.



c u s h i o n -
f o r m i n g
(*Crossidium
squamiferum*)

cyathiform (*franç. cyathiforme*) adj. anatomy - cupulate, cup-shaped.

cygneous (*franç. cygnoïde*) adj. anatomy - curved like the neck of a swan. **cygneous seta** (*Pohlia drummondii*)



cuspidate (*franç. cuspidé*) adj. anatomy - ending in a rigid point.

cuspidate apex (*Calliergonella cuspidata*)



cuticle (*franç. cuticule*) n. anatomy - extracellular cutinized layer on some thalli, leaves, stems, setae, and capsules; utermost wall of cells on the epidermis.

cutting (*franç. coupe (de tissu)*) n. anatomy/microscopy – leaf section.

(central) cylinder (*franç. cylindre central*) loc. anatomy - relative to a stem, column of elongate cells forming a central axis.

see **axial strand, central strand, central cylinder**

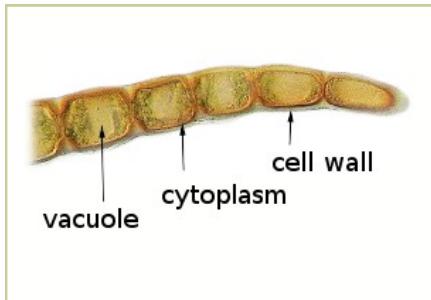
(peristomial) cylinder (*franç. cylindre péristomial*) loc. anatomy - relative to an arthrodontous peristome, the three layers of the amphithecum (OPL + PPL + IPL).

cymbiform (*franç. cymbiforme*) adj. anatomy - boat-shaped.

cypress (*franç. cyprès*) n. support.

cytoplasmic (*franç. cytoplasmique*) adj. anatomy - relative to the cytoplasm.

cytoplasmic membrane
(*Ptilidium pulcherrimum*)



decumbent habit (*Orthothecium rufescens*)



decurrent (franç. *décurrent*) adj.
anatomy - relative to a leaf : extending down the stem, below the insertion point. **decurrent leaf** (*Fuscocephaloziopsis connivens*)



dark (franç. *foncé, sombre*) adj. color.

DD (franç. *DD*) abb. Protection - Data Deficient.

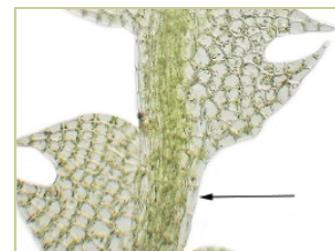
debris (franç. *déblais*) n. habitat/ ecosystem.

deciduous (franç. *décidu*) adj. anatomy - falling off (mosses and leafy liverworts).

[syn. **caducous, fugacious**
[ant. **persistent**]

decolorate (franç. *decoloré*) adj. color - colorless.

decumbent (franç. *décombant*) adj. anatomy - relative to habit, prostrate towards the base but with ascending tips.



decurrent leaf
(*Hedwigia stellata*)



defoliate (franç. *défeuillé*) adj. anatomy - having lost its leaves.

dehiscent (franç. *déhiscent*) adj. anatomy- relative to a capsule, opening by valves or an operculum.

dehiscent capsules (*Schistidium elegantulum*)



delicate, soft (*franç. délicat*) adj. anatomy - slender.

deltoid (*franç. deltoïde*) adj. anatomy - like an equilateral triangle.

dendroid (*franç. dendroïde*) adj. anatomy - tree-like. **dendroid habit** (*Thamnobryum alopecurum*)



dendrophilous (*franç. dendrophile*) adj. life strategy - preferring tree habitats.

dentate (*franç. denté*) adj. anatomy - with teeth.

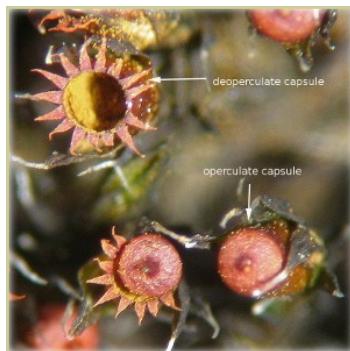
denticulate (*franç. denticulé*) adj. anatomy - with small teeth.

dentate (*Dicranum fuscescens*) (left)
denticulate (*Rhynchostegium riparioides*) (right)



denuded (*franç. dénudé*) adj. anatomy - relative to a stem, without leaves.

deoperculate (*franç. désoperculé*) adj. anatomy - relative to a capsule, lacking an operculum, the lid has fallen. **deoperculate capsule** (*Schistidium helveticum*)

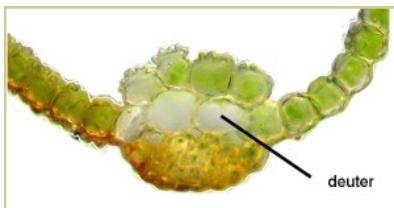


depauperate (*franç. appauvri*) adj. anatomy - not well developed.

det. (*franç. det.*) abb. nomenclature/taxonomy/systematic - Latin abbreviation for « *determinavit* » meaning « determined by ».

deuter cell, guide cell (*franç. cellule-guide*) **loc.** anatomy - large cell with thin walls and large lumina present across the stem of many mosses.

deuter cell (*Tortula atrovirens*)



dextrorse (seta) (*franç. soie dextrorse*) **adj.** anatomy - referring to the seta, twisted to the right, clockwise when looking from the seta apex (capsule base) to the seta base (sporophyte insertion).

[**ant.sinistrorse**]

dextrorse seta (*Crossidium squamiferum*, *Antitrichia curtipendula*)



diagnosis (*franç. diagnostiquer*) **n.** nomenclature/taxonomy/systematic – definition of the characteristics of a species.

diaphanous (*franç. diaphane*) **adj.** color - transparent.

diaphragm (*franç. diaphragme*) **n.** anatomy - see epiphragm

diaspore (*franç. diaspore*) **n.** anatomy - structure for the plant dispersal (asexual or sexual multiplication) : spore, propagulum, gemma...

dichotomous (*franç. dichotomique, dichotome*) **adj.** anatomy - dividing into two equivalent parts.

false dichotomous (*Pellia endiviifolia*)



dicranoid (*franç. dicranoïde*) **adj.** anatomy - said to be a haplolepidous peristome, with 16 forked teeth.

dicranoid peristome

(*Dicranum scoparium*)



didymous (*franç. didyme*) adj. anatomy - divided in two, in pairs.

digitate (*franç. digité*) adj. anatomy - with finger-like lobes.

dimorphous (*franç. dimorphe*) adj. anatomy - occurring in two different forms (leaves...).

dimorphism (*franç. dimorphisme*) n. anatomy – in two different forms.

dioicous (*franç. dioïque*) adj. anatomy - relative to a unisexual plant (archegonia and antheridia on separate plants).

see Plate 10

diploid (*franç. diploïde*) adj. anatomy - 2n, contains sets of chromosomes (organ, tissue, cell, ...).

diplolepidous (*franç. diplolépidé*) adj. anatomy - said to be an arthrodontous peristome, double peristome with two distinct rings of teeth.

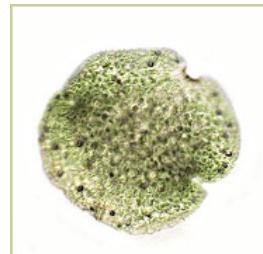
[*ant.haplolepidous*]

diplolepidous peristome
(*Orthotrichum striatum*)



discoid, disciform (*franç. discoïde, disciforme*) adj. anatomy - rounded and flattened, disc-shaped.

disciform
propagule
(*Marchantia*
palcea)

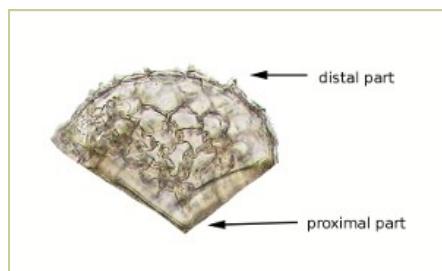


disjunct (*franç. disjoint*) adj. anatomy – of a species, separated from its main geographic distribution.

dispositio (*franç. disposition, arrangement, phyllotaxie*) adj. anatomy – leaf arrangement on the stem.
[*syn.phyllotaxy*]

distal (*franç. distal*) adj. anatomy - located at the top, in a terminal position, in the remote part from the base. [*ant.proximal*]

distal (spore) (*Sphaerocarpos michelii*)



distant (*franç. distant*) adj. anatomy - said of the leaf disposition, spaced.

distinct (*franç. distinct*) adj. anatomy - different.

distichous (*franç. distique*) adj. anatomy - said of leaves, arranged in two opposite rows on the stem.
distichous leaves (*Distichium capillaceum*)



ditch (*franç. fossé*) n. habitat/ecosystem.

divaricate (*franç. divariqué*) adj. anatomy - divergent (about 90° angle).

divergent (*franç. divergent*) adj. anatomy - gradually spreading in opposite directions.

doline (*franç. doline*) n. habitat/ecosystem.

domatium (*franç. domatie*) n. anatomy - little cavity within an organ, sheltering for example *Nostoc* colonies (*Blasia pusilla*) fungi, mites, insects...

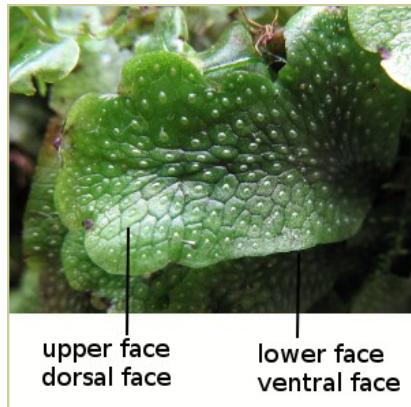
domatium (*Blasia pusilla*)



dorsal (*franç. dorsal*) adj. anatomy - . referring to moss surface or to leafy liverwort, lower face = abaxial face. see **Plate 7**

. referring to a thallose liverwort (prostrate plant), outer face, upper face. [**ant.ventral**]

dorsal face (*Conocephalum conicum*)



dorsiventral (*franç. dorsi-ventral*)

adj. anatomy - relative to a habit : flattened, with distinct dorsal and ventral faces.

dorsiventral (*Radula complanata*)



dry (*franç. sec*) adj.anatomy - dehydrated.

dry /fresh (*Abietinella abietina*)



dull (*franç. terne*) adj. color.
[ant.shiny]

duff (*franç. litière*) n. support - partly decayed organic matter on the forest floor.

(sand) dune (*franç. dune*) n. habitat/ecosystem.

e-

e- (*franç. e-*) pref. anatomy – prefix meaning « without ».

echinulate (*franç. échinulé*) adj. anatomy - with minute spines.

egg (*franç. oeuf*) adj. anatomy - ovum.

ecostate, ribless (*franç. énervé, sans nervure*) adj. anatomy - without nerve, without rib.

ecostate leaf
(*Hedwigia stellata*)



ectohydric (*franç. ectohydrique*)
adj. life strategy - relative to a plant, water is conducted to the tissues externally. [ant.endohydric]

edaphic (*franç. édaphique*) adj. habitat/ecosystem - character relative to soil (pH, humidity...).

edentate (*franç. édenté*) adj. anatomy - without teeth.

e.g. (*franç. e.g.*) abb. nomenclature/taxonomy/systematic - abbreviation for "exempli gratia" meaning « for example ».

elater (*franç. élatère*) n. anatomy - in liverworts, specialized (elongated and with spiral thickenings) cell present among spores in the capsule.

elater (one spiral) (*Frullania dilatata*)



elaterophore (*franç. élatérophore*)
n. anatomy - in liverworts, sterile tissue bearing elaters.

elder (*franç. sureau*) n. support - in genus *Sambucus*.

elimbate (*franç. immarginé*) adj. anatomy - lacking a border or margin.

elliptical (*franç. elliptique*) adj. anatomy - ellipse-shaped.
elliptical leaf (*Mnium stellare*)



elm (*franç. orm*) n. support - in genus *Ulmus*.

elongate (*franç. allongé*) adj. anatomy - stretched out.

emarginate (*franç. échancré, émarginé*) adj. anatomy - notched at the apex. **emarginate** (*Marsupella emarginata*)



emergent (*franç. émergent*) adj. anatomy - relative to a capsule, that slightly exceeds the perichaetial leaves. **emergent capsule** (*Orthotrichum pumilum*)



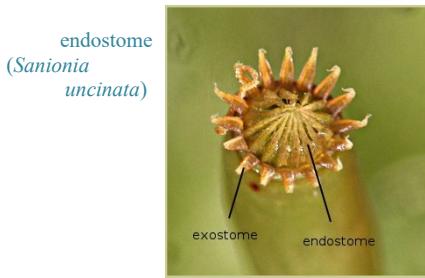
EN (*franç. EN*) abb. protection - Endangered.

endemic (*franç. endémique*) adj. chorology - growing in a well-defined geographical area, generally small.

endogenous (*franç. endogène*) adj. anatomy - deriving from inner cells.
[ant.**exogenous**]

endohydric (*franç. endohydrique*) adj. life strategy - relative to a plant, water is conducted in the tissues internally. [ant.**ectohydric**]

endostome (*franç. endostome*) n. anatomy - in the arthrodontous mosses, inner peristome.



endothecium (*franç. endothecium*) **n.** anatomy - inner part of the embryonic capsule.

enervate (*franç. enerve*) **adj.** anatomy - without nerve.

ensiform (*franç. ensiforme*) **adj.** anatomy - sword-shaped.

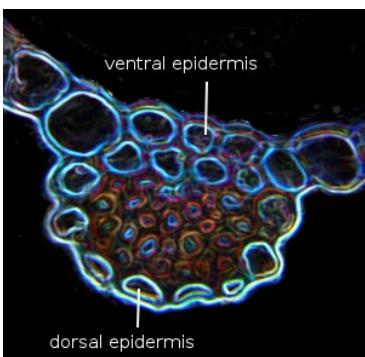
entire (*franç. entier*) **adj.** anatomy - without teeth on margins, smooth.
entire leaf margin (*Marsupella sphacelata*)



ephemeral (*franç. éphémère*) **adj.** life strategy - having a very short life.

epidermis (*franç. épiderme*) **n.** anatomy - layer of superficial cells, outer layer of a stem or a thallus.

(*Ptychostomum boreale*)



epigaeous (*franç. épigé*) **adj.** anatomy - growing on or close to ground.
[*ant.hypogaeous*]

epigonium (*franç. épigone*) **n.** anatomy - protective envelope of embryo before the separation in two parts (basal part, the vaginula and upper part, the calyptra).

epilithic (*franç. épilithique*) **adj.** life strategy - growing on rock.
[*syn.saxicolous, petrocolous*]

epiphragm (*franç. épiphragme*) **n.** anatomy - relative to a Polytrichaceae capsule, circular membrane located between the peristome teeth and formed at apex of columella. [*syn.diaphragm*]
epiphragme (*Atrichum undulatum*)



epiphyllous (*franç. épiphylle*) **adj.** life strategy - growing on living leaves. [*syn.foliicolous*]

epiphytic (*franç. épiphytique*) **adj.** life strategy - growing on another plant but not a parasite.

epithelium (*franç. épithelium*) **adj.** anatomy - in some thallose liverworts, hyaline layer covering outer surface of the thallus.

epitype (*franç. épitype*) n. nomenclature/taxonomy/systematic - the specimen designated as a model (holotype or lectotype or neotype) in the event of ambiguity of the type.

equidistant (*franç. équidistant*) adj. anatomy - at equal distance.

equilateral (*franç. équilatéral*) adj. anatomy - which has equal sides.

eremophilous (*franç. érémorphyle*) adj. life strategy - growing in deserts and steppes.

erect (*franç. érigé, dressé*) adj. anatomy - almost vertical.

erect-spreading (*franç. dressé-étalé*) adj. anatomy - forming an angle about 45° with the stem.

erect-squarrose (*franç. érigé-squarreux*) adj. anatomy - first erect then forming an angle to 90° with the stem. **erect-squarrose leaves** (*Meesia triquetra*)



erose, scraped (*franç. érodé*) adj. anatomy - notched, corroded, gnawed.

et al. or et aliores (*franç. et al. ou et aliores*) loc. publication - abbreviation for « *et alii* » or « *et aliae* » meaning « and others ».

etiolated (*franç. étiolé*) adj. anatomy - becoming pale and drawn out by lack of light.

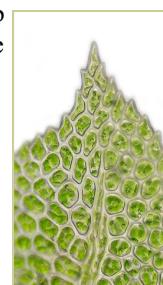
eurycyste (*franç. eurycyste*) n. anatomy - chlorophyllous cell, wide lumen and thin walls (= guide-cells) see Plate 8

eutrophic (*franç. eutrophe*) adj. life strategy - relative to a habitat rich with mineral nutrients.

[ant. oligotrophic]

evergreen (*franç. sempervivente*) adj. anatomy - persistant, green year-round.

evanescent (*franç. evanescent*) adj. anatomy - relative to a rib which ends just before the apex of the leaf.



evanescent nerve
(*Fissidens osmundoides*)

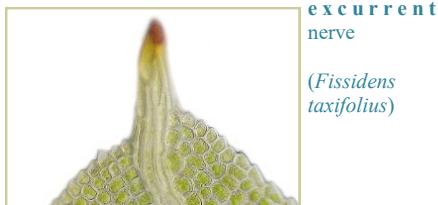
excavate (*franç. évidé*) adj. anatomy - hollowed, concave.

ex (*franç. ex*) abb. nomenclature/taxonomy/systematic - in the case of validation after the formation of the name (*Straminergon stramineum* (Dicks. ex Brid.) Hedenäs).

EX (*franç. EX*) **abb.** protection – Extinct.

ex- (*franç. ex-*) **pref.** anatomy - prefix meaning « sans », « non ».

excurrent (*franç. excurrent*) **adj.** anatomy - relative to a rib, a nerve, beyond the apex of the leaf.



exine (*franç. exine*) **adj.** anatomy - the outer layer of a spore.

exogenous (*franç. exogène*) **adj.** anatomy - emerging at the surface of a cell or an organ, growing or originating from outside an organism.

exosporic (*franç. exosporal*) **adj.** anatomy - spore germination ; the first mitotic division occurs outside spore after rupture of spore wall (typical of most bryophytes).

exostome (*franç. exostome*) **n.** anatomy - relative to an arthrodontous capsule, outer peristome.



exothelial (*franç. exothécial*) **adj.** anatomy - relative to an exothecium.

exothecium (*franç. exothécium*) **n.** anatomy - relative to a capsule, outermost layer.

exothecium (*Schistidium elegantulum*)



exserted (*franç. exsert*) **adj.** anatomy - relative to a capsule, that far exceeds the perichaetial leaves.

exserted capsules
(Orthotrichum anomalum)



exsiccatum, pl. **exsiccata** (*franç. exsiccata*) **n.** anatomy - distributed and labelled reference specimen.

extern (*franç. externe*) **adj.** anatomy - relative to the surface of a leaf, dorsal face, abaxial face.

extinction rate (*franç. taux d'extinction*) **loc.** protection - rate of disappearance of species.

extrorse (*franç. extrorse*) **adj.** anatomy - turned outwards.



face (*franç. face*) **n.** anatomy - side.
see Plate 7

facies (*franç. faciès*) **n.** anatomy - general appearance (habit of a species), or appearance of a plant community dominated by a taxon or a small number of taxa.

facultative (*franç. facultatif*) **adj.** anatomy - not occurring regularly, occurring optionally in response to circumstances rather than by nature.

failing (*franç. manquant*) **adj.** anatomy - not present, not percurrent (nerve).

falcate (*franç. falciforme*) **adj.** anatomy - sickle-shaped.

falcate-secund (*franç. falciforme-seconde*) **adj.** anatomy - sickle-shaped and turned towards only one side of the stem.

falcato-secund
leaves
(*Sanionia uncinata*)



fallow land (*franç. jachère*) **n.** habitat/ecosystem.

family (*franç. famille*) **n.** nomenclature/taxonomy/systematic - subdivision of an order, next major classification level.

farinaceous, farinose (*franç. farineux*) **adj.** anatomy - covered with a white bloom.

fascicle (*franç. faisceau*) **n.** anatomy - cluster of branches, leaves, propagules... **fascicle** (*Sphagnum girgensohnii*)



fasciculate (*franç. fasciculé*) **adj.** anatomy - arranged in fascicles.

fastigiate (*franç. fastigié*) **adj.** anatomy - with branches erect, nearly parallel and nearly the same length.

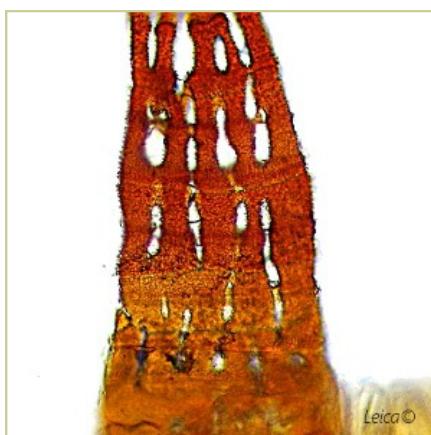
fault (*franç. faille*) n. habitat/ecosystem.

female (*franç. femelle*) adj. anatomy - (inflorescence) bearing the archegonia.

fen (*franç. tourbière basse, bas-marais*) loc. habitat/ecosystem.

fenestrate (*franç. fenêtré, fenes-tré*) adj. anatomy - pierced, perforated with openings like windows.

fenestrate peristome
(*Grimmia crinitoleucophoea*)

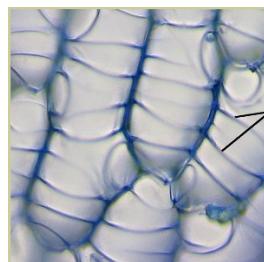


ferruginous, ferruginous (*franç. ferrugineux*) adj. color - rust colored.

fertile (*franç. fertile*) adj. anatomy - producing sex organs (antheridia, archegonia), bearing sporophytes ...". [ant. **sterile**]

fibril (*franç. fibrille*) n. anatomy - in *Sphagnum*, fiber-like wall thickenings like a fine spiral, (on hyalocysts).

fibril
(*Sphagnum centrale*)



fibrillose (*franç. fibrillé*) adj. anatomy - with fibrils.

field (*franç. champ*) n. habitat/ecosystem.

fig tree (*franç. figuier*) loc. support - in genus *Ficus*.

fir (*franç. sapin*) n. support - in genus *Abies*.

fire place (*franç. place à feu*) loc. habitat/ecosystem.

flank (*franç. flanc*) n. anatomy - in some thallose liverworts, zone between the median groove and the margin of the thallus.

fleshy (*franç. charnu*) adj. anatomy - soft and thick.

filament (*franç. filament*) n. anatomy - thin appendage. chlorophyllose **filaments**

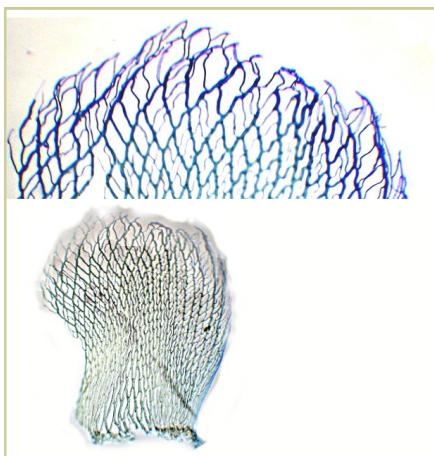


filamentous (*franç. filamenteux*)
adj. anatomy - thread-like.

filiform (*franç. filiforme*) adj. anatomy - slender and elongate, thin as a thread.

fimbriate (*franç. fimbrié*) adj. anatomy - fringed.

marginal cells **fimbriate**
(*Sphagnum fimbriatum*)



fimicolous (*franç. fimicole*) adj. life strategy - growing on manure, on dung.

fistulate (*franç. fistuleux*) adj. anatomy - cylindrical and hollowed.

flabellate (*franç. flabelliforme*) adj. anatomy – fan-shaped.

flagelliform branch (*franç. rameau flagelliforme*) adj. anatomy – . whip-like structure of the antherozoids.
. branch bearing vestigial leaves.

flagelliform branch (*Alleniella complanata*)



flagelliform branch (*Bazzania flaccida*)



fluted (*franç. cannelé*) adj. anatomy - furrowed, having grooves or ridges.

flaccid (*franç. flasque*) adj. anatomy – soft, limp and flexible.

flexuose (*franç. flexueux*) adj. anatomy - twisted, wavy.

flora (*franç. flore*) n. inventory - vegetation (of a country, a continent, ...).

flora (*franç. flore*) n. nomenclature/taxonomy/systematic - book of botanic determination.

floristic list (*franç. relevé floristique*) loc. inventaire - list of species present on a site.

flowerbed (*franç. plate-bande*) n. habitat/ecosystem.

fo. (*franç. fo.*) abb. nomenclature/taxonomy/systematic - abbreviation meaning « forma ».

folded (*franç. plié*) n. anatomy - pleated, plicate.

folicolous (*franç. foliicole*) adj. life strategy - growing on leaves.

[syn. *epiphyllous*]

foliose (*franç. foliacé, feuillé*) adj. anatomy - leaf-like, leafy.

foot (*franç. pied*) n. anatomy - basal part or base of sporophyte imbedded in the gametophyte. In the genus *Sphagnum*, the foot of the sporophyte is attached into the pseudopodium which is part of the gametophyte. **foot** (*Sphagnum squarrosum*)



footpath (*franç. sentier pédestre*) loc. habitat/ecosystem.

forest (*franç. forêt, boisement*) n. habitat/ecosystem.

fount (*franç. source*) n. habitat/ecosystem.

fountain (*franç. fontaine*) n. habitat/ecosystem.

fovea (*franç. fovéa*) n. anatomy - of a spore, ornamentation, depression like a golf-ball.

foveolate (*franç. fovéolé*) adj. anatomy - pitted.

fresh (*franç. frais*) adj. anatomy - fresh state: in the presence of sufficient moisture (opposite: dry state, in a hot and dry atmosphere).

fresh (left)/**dry** (right)
(*Anomodon viticulosus*)



frieze (*franç. frisé*) adj. anatomy - as an endive salad.

frieze thallus
(*Anthoceros agrestis*)



fringe (*franç. frange*) n. anatomy - margin lined with cilia.

frondose (*franç. frondiculé*) adj. anatomy - relative to habit, densely branched, fern-like.

frondose habit (*Thuidium tamariscinum*)



fructification (*franç. fructification*) n. anatomy - analogy to vascular plants, synonymous term with « sporophyte », considered by some authors as unsuitable.

fruit (*franç. fruit*) n. anatomy— inappropriate term by some authors, meaning sporophyte.

fugacious (*franç. fugace*) adj. anatomy - fleeting.

fulvous (*franç. fauve*) adj. color - reddish yellow.

♀ (*franç. ♀*) symb. anatomy - sign meaning « female », i.e. bearing archegonia.

funiform (*franç. funiforme*) adj. anatomy - like a rope.

furcate (*franç. fourchu*) adj. anatomy - divided into two or more similar parts.

furfuraceous (*franç. furfuracé*) adj. anatomy - covered with scales.

furrow (*franç. sillon*) n. anatomy - groove. **furrow** (*Riccia sorocarpa*)



furrowed, sulcate (*franç. sillonné*)
adj. anatomy - grooved.

furrowed capsule
(sporose)
(*Plagiopus oederianus*)



(resorption) furrow (*franç. sillon de résorption*) n. anatomy – groove due to the partial resorption of the marginal cells. [see resorption](#)

fuscosus (*franç. brun-gris*) adj. color - dark brown and somber color.

fusiform (*franç. fusiforme*) adj. anatomy – elongated, spindle-shaped.



galeate (*franç. galéiforme*) adj. anatomy - helmet-shaped.

galeate lobe
(*Frullania tamarisci*)



gametangium (*franç. gamétange*)
n. anatomy - organ bearing gametes:
antheridia and/or archegonia.

gametangiophore (*franç. gamétangiophore*) n. anatomy - specialized branch bearing gametangia (archegoniophore or antheridiophore).

gamete (*franç. gaméte*) n. anatomy - reproductive cell, sex cell: antherozoid, ovum.

gametophore (*franç. gamétophore*) n. anatomy - structure bearing gametes.

gametophyte (*franç. gamétophyte*)
n. anatomy - leafy or thalloid plant
bearing antheridia/archegonia
(haploid stage). see Plate 2

garden (*franç. jardin*) n. habitat/
ecosystem.

gelatinose, gelatinous (*franç.
gelatineux*) adj. anatomy - jelly
consistency.

geminate (*franç. géminé*) adj. anato-
my - doubled, per pair.

geminate hairs (*Metzgeria temperata*)



geminate teeth (*Mnium marginatum*)



gemma (*franç. gemma, gemmule*)
n. anatomy - asexual propagule.
see Plate 9



gemmae-cup (*franç. cupule*) n.
anatomy - small cup containing pro-
pagules, gemmae.

gemmae-cup (*Lunularia cruciata*)



gemmae-cup (*Tetraphis pellucida*)



gemmate (*franç. gemmiforme*) adj.
anatomy – bud-like.

gemmaferous, gemmiparous
(*franç. gemmifère*) adj. anatomy – bearing gemmae.

geniculate (*franç. géniculé*) adj.
anatomy - bent like a knee. **geniculate**
pseudoelaters (*Anthoceros agrestis*)



genus (*franç. genre*) n. nomenclature/taxonomy/systematic - subdivision of a family.

gibbosity (*franç. gibbosité*) n. anatomy - bump, bulge.

gibbous (*franç. gibbeux*) adj. anatomy - bulging on one side.

gibbous capsule (*Diphyscium foliosum*)



glabrescent (*franç. glabrescent*)
adj. anatomy - almost hairless.

glabrous (*franç. glabre, lisse*) adj.
anatomy – smooth, without ornate-
tations, without papillae.

glacier (*franç. glacier*) n. habitat/ecosystem.

glandular (*franç. glanduleux*) adj.
anatomy - with one or more glands.

glaucous (*franç. glauque*) adj. color.

globose (*franç. globuleux*) adj. anatomy - round, spherical.

glossy (*franç. vernissé*) adj. color – shiny color.

gorge (*franç. gorge*) n. habitat/ecosystem.

granulose (*franç. granuleux*) adj.
anatomy - minutely roughened.

gravestone (*franç. pierre tombale*)
loc. support..

gregarious (*franç. gréginaire*) adj.
strategy-live - growing together but
not densely (tufts, mats...).

green (*franç. vert*) adj. color.

(pale) green (*franç. vert pâle*) adj.

bright) green (*franç. vert vif*) adj.
color.

greenhouse (*franç. serre*) n. habitat/ecosystem.

grey (*franç. gris*) adj. color.

ground (*franç. sol, terre*) n. habitat/ecosystem.

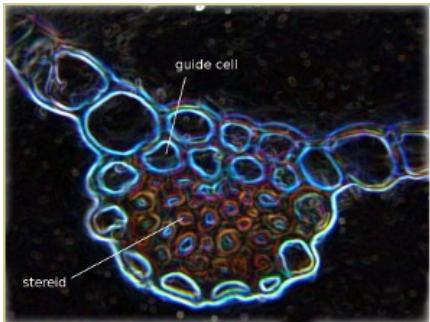
grove (*franç. bosquet*) n. habitat/ecosystem.

guards cells (*franç. cellules de garde*) loc. anatomy - specialized cells bordering a capsule stoma.
guards-cells (*Oriothrichum affine*)

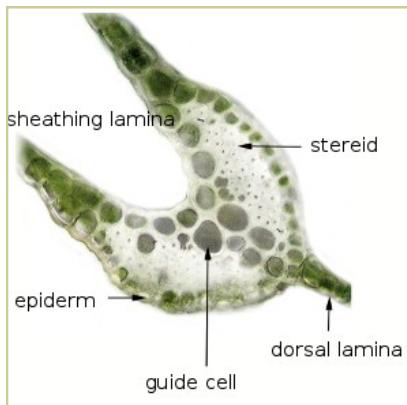


guide cell (*franç. cellule-guide*)
 loc. anatomy - large cell with thin walls and large lumina present across the stem of many mosses used for conduction.

guide-cell (*Ptychostomum boreale*)



guide cell (*Fissidens taxifolius*)



guttulate (*franç. guttulé*) adj. anatomy - having cell lumen rounded like drops of oil.

gymnostomous (*franç. gymnostome*) adj. anatomy - relative to a capsule, without peristome.

gymnostomous (*Grimmia anodon*)



gynoecium (*franç. gynécie*) n. anatomy - « female inflorescence », female gametocarp (archegonia, paraphyses and the surrounding bracts).

gypsum (*franç. gypse*) n. support -

gyrate (*franç. vrillé*) adj. anatomy - circinate, spiral-like.



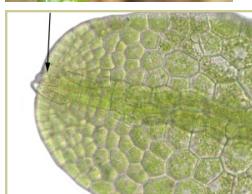
habit (*franç. port*) n. anatomy - general appearance, aspect.

habitat (*franç. habitat*) n. habitat/ ecosystem - environment, ecological station of a species.

hair (*franç. poil*) adj. anatomy - bristle.



hair
(*Cirriphyllum piliferum*)



hair
(*Radula complanata*)

hairless (*franç. nu, glabre*) adj. anatomy - glabrous, without hair.

haired (*franç. chevelu*) adj. anatomy - covered with long hairs.

hair-point (*franç. poil, arête*) n. anatomy - .see, awn, arista

halophytic (*franç. halophyte*) n. life strategy – plant growing on salty or alkaline soil.

haploid (*franç. haploïde*) adj. anatomy - 1n, one set of chromosomes.

hanging branch (*franç. branche pendante*) loc. anatomy - in *Sphagnum*, pendent branches.

hanging branch (*Sphagnum girgensohni*)



haplolepidous (*franç. haplolépidé*) adj. anatomy – relative to a peristome : simple, having only one row of teeth. [ant.diplolepidous]
haplolepidous peristome (*Schistidium helveticum*)



hastate (*franç. hasté*) adj. anatomy - spear-shaped.

haustorium (*franç. haustorium*) n. anatomy - structure located at the base of the sporophyte that penetrates the gametophyte. This structure allows the transport of organic nutrients and is important for the development of capsule, spores....

hawthorn (*franç. aubépine*) n.
support - in genus *Crataegus*.

hazel (*franç. noisetier*) n. support - in genus *Corylus*.

heath, heathland (*franç. lande*) n.
habitat/ecosystem.

heather moor (*franç. lande tourbeuse*) loc. habitat/ecosystem.

hedge (*franç. haie*) n. habitat/
ecosystem.

helical, helicoid (*franç. hélicoïdal*)
adj. anatomy - twisted like spiral,
helix.
elater : helical band (*Frullania dilatata*)



helical habitus (*Tortula inermis*)

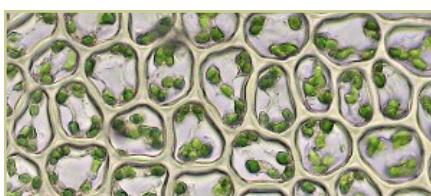


heliophilous (*franç. héliophile*) adj.
life strategy - growing in a full sun-light habitat. [syn. photophilous]

hepatic (*franç. hépatique*) n. nomenclature/taxonomy/systematic - plant belonging to the phylum Marchantiophyta, liverwort.

herbarium (*franç. herbier*) n. nomenclature/taxonomy/systematic - collection of dry plant specimens.

heterogeneous (*franç. hétérogène*)
adj. anatomy - composed of dissimilar parts. [ant.homogeneous]
heterogeneous cells (*Mnium marginatum*)



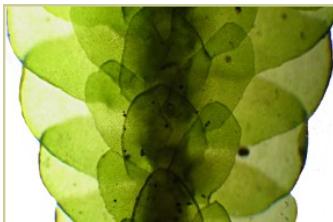
heteroicous (*franç. hétéroïque*) adj.
anatomy - polyoicous, with several types of gametangia on the same plant. see Plate 10

heterolepidous (*franç. hétérolépidé*) adj. anatomy - relative to a peristome : simple or double (one or two pairs of teeth), form of arthrodontous peristome.

heteromallous (*franç. hétérotrope*) adj. anatomy - pointing in all directions. [ant.homomallous]

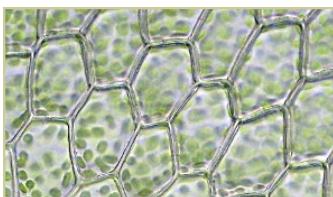
heteromorphous (*franç. hétéromorphe*) adj. anatomy - dimorphic, having different shapes.

heterophylloous (franç. *hétérophylle*) adj. anatomy - having different leaves (size, shape...) on the same axis. [ant.*isophylloous*]



heterophylloous
leaves
(*Porella*)

hexagonal (franç. *hexagonal*) adj. anatomy - with six-sides nearly equal. **hexagonal cells** (*Rhizomnium punctatum*)



hillock, mound (franç. *butte*) n. habitat/ecosystem.

hillside (franç. *flanc de coteau*) loc. habitat/ecosystem.

hirsute (franç. *hirsute*) adj. anatomy - hairy.

hispid (franç. *hispide*) adj. anatomy - covered with stiff hairs.

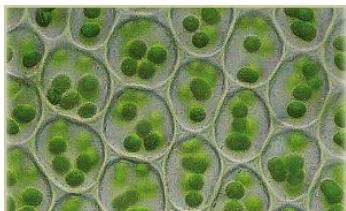
Holarctic (franç. *holarctique*) adj. chorology - species present in terrestrial areas north of the Tropic of Cancer, Nearctic and Palearctic regions combined.

hollow (franç. *gouille, dépression*) n. habitat/ecosystem.

holm oak (franç. *chêne-vert*) n. support - *Quercus ilex*.

holotype (franç. *holotype*) n. nomenclature/taxonomy/systematic - single specimen used for the typification of a species.

homogeneous (franç. *homogène*) adj. anatomy - composed of similar parts. [ant.*heterogeneous*] **homogeneous cells** (*Minium stellare*)



homomallous (franç. *homotrophe, homomalle*) adj. anatomy - pointing in the same direction.



homomallous
leaves
(*Kiaeria starkei*)

hooked, uncinate (franç. *crochu, unciné*) adj. anatomy - hook-shaped.

horn (franç. *corne*) n. anatomy - elongated and pointed protuberance.

hornbeam (franç. *charme*) n. support - in genus *Carpinus*.

hornwort (*franç. anthocérote*) **n.** nomenclature/taxonomy/systematic - plant belonging to the phylum Anthocerotophyta.

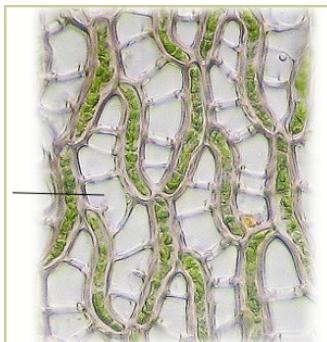
host (*franç. hôte*) **n.** support - plant or animal that provides support for another organism.

humicole (*franç. humicolous*) **adj.** life strategy – plant growing on humus.

humus (*franç. humus*) **n.** support - organic component of soil.

hyaline (*franç. hyalin*) **adj.** color - colorless, transparent.

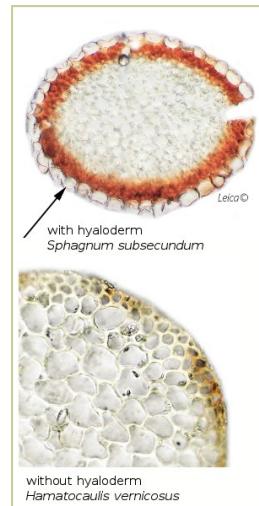
hyalocyst, hyalocyt (*franç. hyalocyste*) **n.** anatomy - in *Sphagnum*, large and hyaline cell (often used in water storage). [ant.*chlorocyst*]



hyalocyst
(*Sphagnum rubellum*)

hyaloderm, hyalodermis (*franç. hyaloderme*) **n.** anatomy - a cortex composed of large, hyaline cells.

. with hyaloderm:
(*Sphagnum subsecundum*)
. without hyaloderm:
(*Hamatocaulis vernicosus*)

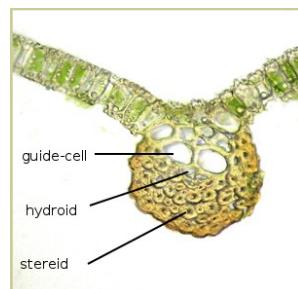


hybrid (*franç. hybride*) **adj.** life strategy - the offspring of two plants of different species or varieties.

hydric (*franç. hydrique*) **adj.** life strategy - wet.

hydrochory (*franç. hydrochorie*) **n.** life strategy - mode of dispersal by water.

hydroid (*franç. hydroïde*) **n.** anatomy - conductive cell, elongated and with thin and concave walls, present in the central strand or in the costa of some bryophytes.



hydrophilous (*franç. hydrophile*)
adj. life strategy - growing on wet, submerged or aquatic habitats.

hydrophobic (*franç. hydrophobe*)
n. life strategy - which doesn't absorb water, resisting wetting.

hydrophyte (*franç. hydrophytic*) n.
life strategy - plant, always immersed or partly submerged.

hygroscopic (*franç. hygroscopique*) adj. life strategy – aspect, appearance changing with humidity.

hygrophile (*franç. hygrophile*) adj.
life strategy – growing in wet habitats, not in water.

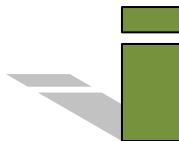
hypnoid (*franç. hypnoïde*) adj. anatomy –
. referring to a peristome : complete, with endostome and exostome;
. relative to a habit : like a *Hypnum* (pleurocarpous moss). **hypnoid** peristome (*Hypnum cupressiforme*)



hypodermal (*franç. hypodermique*) n. anatomy - located under the epidermis.

hypogaeous (*franç. hypogé*) adj.
anatomy - growing below the surface of the soil. [ant.**epigaeous**]

hypophysis (*franç. hypophyse*) n.
anatomy - referring to a capsule : sterile neck located at the base of the capsule, between seta and urn.
[syn.apophysis]
hypophysis (*Polytrichum formosum*)



ibid. (*franç. ibid.*) abb. publication - abbreviation for « *ibidem* » meaning « in the same book ».

idioblast (*franç. idioblast*) n. anatomy - specialized cell, ocellus, oil cell.
see also **ocellus**

i.e. (*franç. i.e.*) abb. nomenclature/taxonomy/systematic - abbreviation for « *id est.* » meaning « that is ».

imbricate (*franç. imbriqué*) adj.
anatomy - closely appressed and overlapping.

imbricate leaves
(*Gymnomitrion coralliooides*)



immersed (*franç. immergé*) adj.
anatomy - . referring to a moss or
leafy liverwort capsule, exceeded
by the perichaetial leaves.
. referring to thallose liverworts,
included in the thallus.
. referring a pore, cryptopore
immersed sporophyte (*Hedwigia stellata*)



immersed sporophyte (*Riccia subbifurca*)



CHAVOUTIER, L., 2017 – Bryophytes sl. : Mosses, liverworts and hornworts. Illustrated glossary. Unpublished. 132 p.

imperfect (*franç. imparfait*) adj.
anatomy - referring to a peristome,
incomplete.

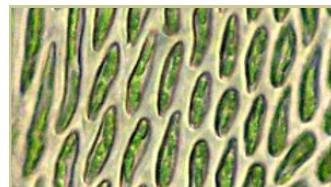
incised (*franç. incisé*) adj. anatomy -
nicked, cut.

inclined (*franç. incliné*) adj. anatomy
- oblique position.

included (*franç. inclus*) adj. anatomy
- enclosed. **see also** immersed

incrassate (*franç. épaisse*) adj. ana-
tomy - thick-walled.

incrassate cells (*Pterogonium gracile*)



incubous (leaf insertion) (*franç.
insertion incube*) adj. anatomy - in
leafy liverworts: observing the
upper side of a stem, the base of
insertion is hidden while the more
distal part is clearly visible.
[ant.succubous]



incubous
*Calypogeia
fissa*)



incubous
*(Lepidozia
reptans)*

incurved (*franç. incurvé*) adj. anatomy - curved upwards and inwards.

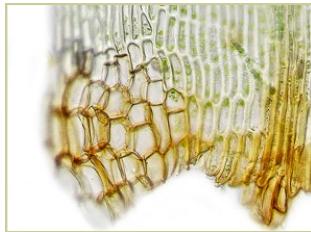
indehiscent (*franç. indéhiscent*) adj. anatomy - relative to a capsule, without distinct opening.

indigenous (*franç. indigène*) adj. chorology - plant naturally present in a geographical area.

[ant.adventive, introduced]

inflated (*franç. enflé*) adj. anatomy - swollen, swelled.

inflated auricle (*Blindia caespiticia*)



inflexed (*franç. infléchi*) adj. anatomy - bending slightly upwards and inwards.

inflorescence (*franç. inflorescence*) n. anatomy - term sometimes considered inappropriate, some authors retain it : structure composed of gametangia and the (perichaetal and/or perigonial) leaves.

infrageneric (*franç. infragénérique*) adj. nomenclature/taxonomy/systematic - within a genus.

infraspecific (*franç. infraspécifique*) adj. nomenclature/taxonomy/systematic - within a species.

infundibuliform (*franç. infundibuliforme*) adj. anatomy - funnel-shaped.

initial cell (*franç. cellule initiale*) loc. anatomy - specialized cell that divides repeatedly and will produce leaves or other tissues.

initial cell (*Metzgeria temperata*)



inner (*franç. interne*) adj. anatomy - referring to a leaf face (side) : ventral face = upper face = adaxial face. see Plate 7

inner peristome (*franç. péristome interne*) adj. anatomy - see endostome

inner (peristomial layer) (*franç. couche péristomiale interne*) loc. anatomy - IPL.
see (inner) peristomial layer

innovation (*franç. innovation*) n. anatomy - young branch, new shoot.

inoperculate (*franç. inoperculé*) adj. anatomy - said of a capsule that has no (or lost) operculum.

Sphagnum squarrosum



inrolled (*franç. enroulé*) adj. anatomy - rolled inwards.

insertion (*franç. insertion*) n. anatomy - line of attachment.

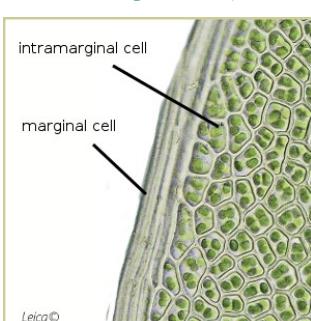
insertion (*Plagiothecium nemorale*)



interwoven (*franç. entremêlé*) adj. anatomy - mixed.

intramarginal (*franç. intramarginal*) adj. anatomy - referring to cells, near the margin, internal position relative to the outermost row.

intramarginal cells (*Mnium thomsonii*)



intricate (*franç. intricate*) adj. anatomy - tangled.

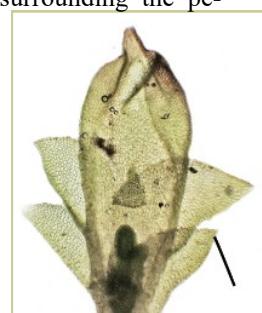
introrse (*franç. introrse*) adj. anatomy - turned inwards or towards.

inverse (*franç. inverse*) adj. anatomy - in the opposite direction.

involute (*franç. involucré*) n. anatomy - structure of thallus (tube-like) which protects archegonia ; row of leaves modified in an inflorescence ; term sometimes used to name perigonial and perichaetal leaves. **involute** (*Anthoceros agrestis*)



involucral bract(s) (*franç. bractée(s) involucrale(s)*) loc. anatomy - modified leaves surrounding the perianth.



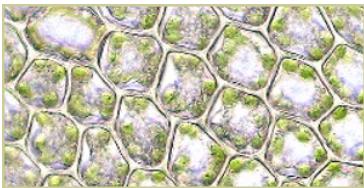
involucral bracts (*Solenostoma hyalinum*)

involute (*franç. involuté*) adj. anatomy - rolled inwards, upwards, towards the adaxial face

IPL (*franç. IPL*) abb. anatomy - abbreviation meaning « inner peristomial layer ».
see (inner) peristomial layer

irregular (*franç. irrégulier*) adj. anatomy - unequal, asymmetrical.

isodiametric (*franç. isodiamétrique*) **adj.** anatomy - nearly as broad as long, typically referring to a cell.
isodiametric cells (*Plagiomnium medium*)



isophyllous (*franç. isophylle*) **adj.** anatomy – stem leaves and branch leaves are similar.
[**ant.anisophyllous**]

isotype (*franç. isotype*) **n.** nomenclature/taxonomy/systematic - duplicate specimen of type specimen (holotype).

IUCN (*franç. UICN*) **abb.** protection - International Union for Conservation of Nature.



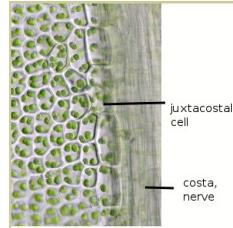
julaceous (*franç. julacé*) **adj.** anatomy – like a catkin, referring to leaves that form a cylinder. **julaceous branches** (*Pterygynandrum filiforme majus*)



juniper (*franç. genévrier*) **n.** support. in genus *Juniperus*.

juxtacostal (*franç. juxtacostal*) **adj.** anatomy - referring to cells, adjacent to costa.

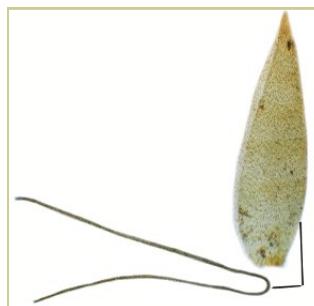
juxtacostal cells
(*Mnium thomsonii*)



keel (*franç. carène*) **n.** anatomy - sharp fold of a leaf.

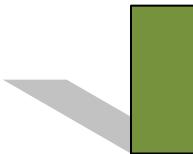
keeled, carinate (*franç. caréné*) **adj.** anatomy - sharply folded like the keel of a boat.

keeled leaf (*Fontinalis antipyretica*)



kindom (*franç. règne*) **n.** nomenclature/taxonomy/systematic-highest major category in biological taxonomy.

KOH (*franç. KOH*) chemical formula
chemical reagent - potassium hydroxide, commonly known as potash.



lacerate (*franç. lacéré*) adj. anatomy - with the margins torn.

laciniate (*franç. lacinié*) adj. anatomy - deeply divided into thin straps.

lacuna (*franç. cavité*) n. anatomy - empty space, hole. *see cavity*

lacunose (*franç. lacuneux*) adj. anatomy - relative to a thallus, spongy, with holes.

lagoon (*franç. lagune*) n. habitat/ ecosystem.

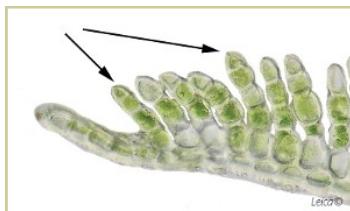
lamella (*franç. lamelle*) n. anatomy - chlorophyllous slat. **lamellae**
(ventral face) (*Atrichum undulatum*)



(dorsal face) (*Campylopus pilifer*)



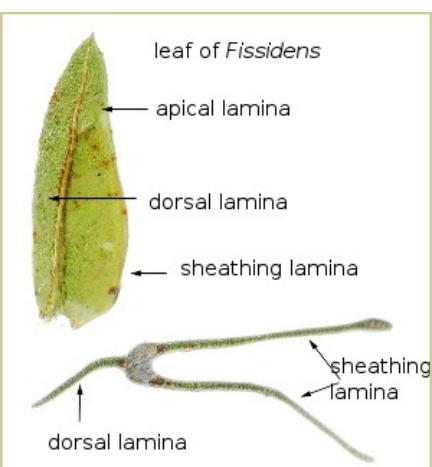
(ventral face) (*Polytrichum formosum*)



lamina (*franç. lame*) n. anatomy - part of the thallus or part of the leaf not including the nerve (costa) and the margin. *see Plate 7*

(apical) lamina (*franç. lame apicale, lame ventrale*) loc. anatomy - in *Fissidens*, part of the leaf located above the sheath and the dorsal lamina.

(dorsal) lamina (*franç. lame dorsale*) loc. anatomy - in *Fissidens*, part of the leaf opposite to the sheath and below the apical lamina. **dorsal lamina** (*Fissidens taxifolius*) ventral, sheath and dorsal lamina (*Fissidens dubius*)



(sheathing) lamina, vaginant lamina (*franç. lame vraie = gaine*)

n. anatomy - in *Fissidens*, pocket of the leaf that forms a sheath and overlaps next leaf, double-layered portion.

lanceolate (*franç. lancéolé*) adj. anatomy - lance-shaped, with largest width below middle.

lanuginose (*franç. lanugineux*) adj. anatomy - wolly.

larch (*franç. mélèze*) n. support. in genus *Larix*.

lateral (*franç. latéral*) adj. anatomy - on the side.

lawn (*franç. pelouse*) n. habitat/ecosystem.

lax (*franç. lâche*) adj. anatomy - relative to a tissue, formed of large diameter and thin-walled cells.



lax cells (*Tayloria lingulata*)

layer (*franç. strate, couche*) n. anatomy - stratum.

(bush) layer (*franç. strate arbustive*) loc. habitat/ecosystem - habitat stratum composed of shrubs.

(vegetation) layer (*franç. strate de végétation*) loc. habitat/ecosystem - layer with plants.

LC (*franç. LC*) abb. protection - Least Concern.

leaf (*franç. feuille*) n. anatomy - common term for phyllidium, chlorophyllose outgrowth from the stem. see Plate 7

(cauline) leaf (*franç. feuille caulinaire*) loc. anatomy - leaf inserted on the stem. see cauline (leaf)

(perichaetal) leaf (leaves) (*franç. feuille(s) périchétiale(s)*) loc. anatomy - specialized leaves surrounding archegonia.

perichaetal leaves (*Hedwigia stellata*)



(perigonial) leaf (leaves) (*franç. feuille(s) périgoniale(s)*) loc. anatomy - specialized leaves surrounding antheridia.

perigonial leaves (*Rhizomnium punctatum*)



(branch) leaf (*franç. feuille raméale*) loc. anatomy - leaf inserted on a branch. [see also caulin](#) (leaves)

(vegetative) leaf (*franç. feuille végétative*) loc. anatomy - leaf which doesn't surround sexual organs.
vegetative leaf (*Plagiomnium affine*)



leaf trace (*franç. trace de l'insertion foliaire*) loc. anatomy - (in a stem cut) extension of hydroids between the central strand and the costa.

lectotype (*franç. lectotype*) n. nomenclature/taxonomy/systematic - specimen designated as nomenclatural type among several original specimens of a taxon.

leg. (*franç. leg.*) abb. herbier - abbreviation for « legit » meaning « who has collected it ».

leiodont (*franç. léiodonte*) adj. anatomy - relative to a peristome, without winged crests in the ventral face (some Polytrichaceae).
[\[ant.pterygodont\]](#)

lenticular (*franç. lenticulaire*) adj. anatomy - lens-shaped.

lenticular propagule
(Marchantia polymorpha)



leptoid (*franç. leptoïde*) n. anatomy - food conductive cell with thin walls and large lumen in some mosses.

leucocyst (*franç. leucocyste*) n. anatomy - in *Sphagnum*, large, empty, hyaline cell. [\[syn. hyalocyst\]](#)

lid, operculum, (*franç. opercule*) n. anatomy - relative to a sporophyte, operculum that blocks the capsule mouth (lid is dehiscent to the spore). [see operculum](#)

life cycle (*franç. cycle biologique*) loc. anatomy - series of stages needed for its complete development.

life form (*franç. forme de vie*) loc. anatomy - overall organization of growth form, branching pattern, and general assemblage of individuals or population as modified by environment, morphological characters.

lignicolous (*franç. lignicole*) adj. life strategy - growing on lignin, on wood.

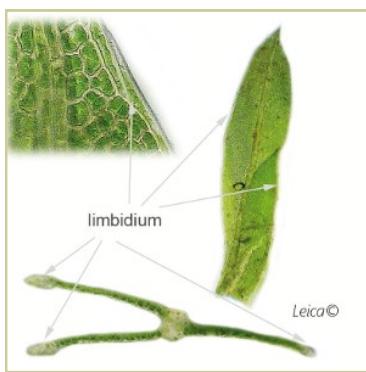
ligulate (*franç. ligulé*) adj. anatomy - strap-shaped.

limb (*franç. limbe*) n. anatomy - upper part of a leaf when leaf base is differentiated. limb (*Polytrichum formosum*)



limbate (*franç. limbidié*) adj. anatomy - in *Fissidens*, with a limbidium.

limbidium (*franç. limbidium*) n. anatomy - in *Fissidens*, differentiated margin, often multistratose. limbidium (*Fissidens crassipes*)



lime tree (*franç. tilleul*) n. support - in genus *Tilia*.

limestone (*franç. calcaire*) n. support.

limicolous (*franç. limicole*) adj. life strategy - growing in mud.

limnophilous (*franç. limnophile*) adj. life strategy - growing standing water, fresh water, marshes, ponds.

linear (*franç. linéaire*) adj. anatomy - narrow and long with parallel edges.

lingulate (*franç. linguliforme*) adj. anatomy - tongue-shaped. lingulate leaves (*Syntrichia ruralis*)



(*Atrichum undulatum*)

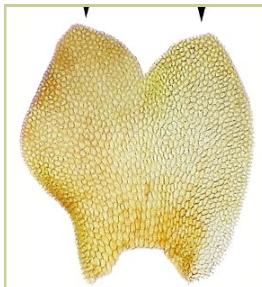


lithophytic (*franç. lithophyte*) n. life strategy - growing on stony or rocky ground.

liverwort (*franç. hépatique*) n. nomenclature/taxonomy/systematic - plant of the Division/Phylum Marchantiophyta.

loam (*franç. limon*) n. support.

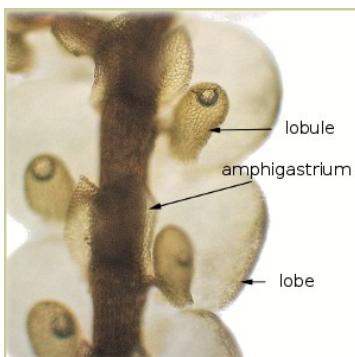
lobe (*franç. lobe*) **n.** anatomy - division of a leaf, a thallus, or organ.
two lobes (*Marsupella sphacelata*)



lobate (*franç. lobé*) **adj.** anatomy - divided, having lobes.

lobule (*franç. lobule*) **n.** anatomy - small lobe, in leafy liverworts it is the smaller lobe of an unequally divided leaf fold.

lobule (*Frullania tamarisci*)



locality (*franç. localité*) **n.** chorology - geographic position, location.

loess (*franç. loess*) **n.** support.

longevity (*franç. longévité*) **n.** life strategy - long lifetime of a species, life expectancy.

lower (*franç. inférieur*) **adj.** anatomy - relative to a leaf surface, abaxial face, outer face **see Plate 7**

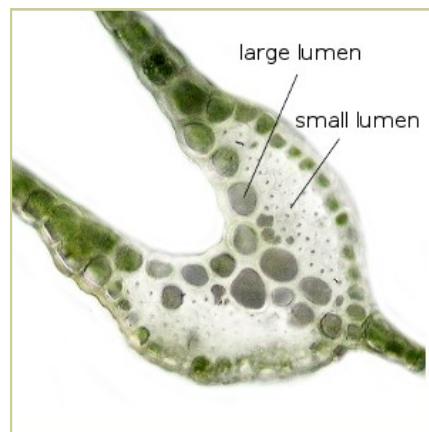
- . relative to a thallose liverwort, ventral face **see also dorsal/ventral face**
- . relative to a leaf zone, lower third.

length (*franç. longueur*) **n.** anatomy - dimension opposed to the width.

lorate (*franç. lorifolié*) **n.** anatomy - thong or strap shaped.
[syn. ligulate]

lucifugous (*franç. lucifuge*) **adj.** life strategy - avoiding light, growing in dark caves.

lumen (*franç. lumen*) **n.** anatomy - cell cavity. **lumen** (*Fissidens taxifolius*)



lunate (*franç. lunulé, croissant en*) **adj.** anatomy - crescent shaped.

lurid (*franç. livide*) **adj.** color - having a brown color tinged with red, as in a flame seen through smoke.

lustrous (*franç. lustré*) adj. color - shiny.

luteus (*franç. jaune*) adj. color - saffron yellow.

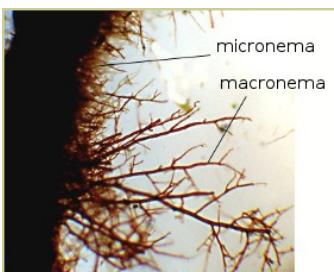
luticolous (*franç. luticole*) adj. life strategy – growing in mud or muddy places.



macro- (*franç. macro-*) pref. anatomy - prefix meaning « large », « long », « great ».

macronema (*franç. macronéma*) n. anatomy - large, branched rhizoid produced around branch primordia and base of buds. [ant.**micronema**

macronema
(*Rhizomnium pseudopunctatum*)



male (*franç. mâle*) n. anatomy - in bryophytes, said of a thallus or a leafy plant capable of bearing antheridia. **see Plate 4**

♂ (*franç. ♂*) symb. anatomy - symbol meaning « male »,

mamilla (*franç. mamille*) n. anatomy - nipple-shaped protuberance, strongly bulging cell surface. **mamilla** (*Cheilotrichia chloropus*)



mamillose (*franç. mamilleux*) adj. anatomy – with mammillae.

mamillose leaf (*Cheilotrichia chloropus*)



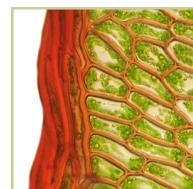
manure (*franç. fumier*) n. support - organic matter, mostly derived from animal feces.

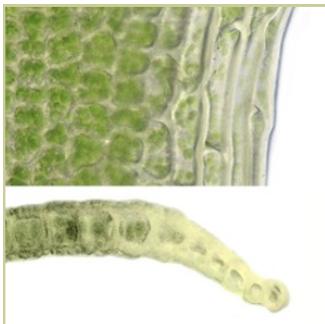
maple (*franç. érable*) n. support. in genus *Acer*.

marcescent (*franç. marcescent*) adj. anatomy - withering without falling off.

margin (*franç. marge*) n. anatomy – relative to a leaf : edge of the structure (often differentiated cells).

margin
(*Cinclidium stygium*)



margin (*Tortula subulata*)

marginal (*franç. marginal*) adj.
anatomy - located in the margin.

marl (*franç. marne*) n. support.

marsh (*franç. marais*) n. habitat/
ecosystem.

(salt) marsh (*franç. marais salant*)
loc. habitat/ecosystem.

marshland (*franç. zone marécageuse*) loc. habitat/ecosystem.

marsupium (*franç. marsupium*) n.
anatomy - in some leafy liverworts,
fleshy pouch that encloses the sporophyte.

marsupium (*Geocalyx graveolens*)



mat (*franç. tapis*) n. life strategy -
relative to habit, interwoven stems,
in horizontal growth. **mat**

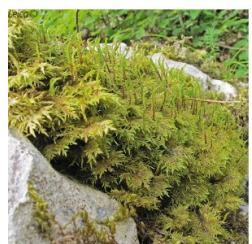
Isothecium myurum



*Plagiomnium
undulatum*



*Hylocomium
splendens*



meadow (*franç. pré, prairie*) n.
habitat/ecosystem.

(wet) meadow (*franç. prairie
humide*) n. habitat/ecosystem.

(swampy) meadow (*franç. prairie
marécageuse*) loc. habitat/ecosystem.

median (*franç. médian*) adj.
. anatomy – middle, central
. statistics - denoting value or quantity
lying at midpoint of frequency
distribution.

mediterranean (*franç. méditerranéen*) adj. chorology - areas around the Mediterranean Sea.

medulla (*franç. médulle*) n. anatomy - the central part of a stem or a seta.

meiosis (*franç. méiose*) n. anatomy - cell division process, « $2n$ » to « n ».

basal) membrane (*franç. membrane basale*) n. anatomy - short cylinder at the base of a peristome (single peristome) or at the base of endostome and supporting segments and cilia (double peristome). **basal membrane** (*Tortula subulata*)



membranaceous (*franç. microstomé*) n. anatomy - transparent and thin.

mesic (*franç. mésique*) adj. habitat/ecosystem - describes an ecosystem neither very dry nor very wet.

mesophilous (*franç. mésophile*) adj. life strategy - preferring moist habitats.

mesophyte (*franç. mésophyte*) adj. life strategy - plant growing in moderately humid habitats.

mesotrophic (*franç. mésotrophe*) adj. habitat/ecosystem - moderately rich in dissolved nutrients, often near to neutrality, neither basic nor acid.

messicole (*franç. messicole*) adj. life strategy - growing in the harvested fields.

mica-schist (*franç. micaschiste*) n. support.

micro- (*franç. micro-*) pref. anatomy - prefix meaning « very little ».

micrometer, micron (*franç. micron*) n. measure - unit of length, one-thousandth of a millimeter (μm).

micronema (*franç. micronéma*) n. anatomy - small, fine, sparsely branched rhizoid produced on stem between leaves. [ant.**macronema**] **micronema** (*Plagiomnium ellipticum*)



microphyllous (*franç. microphylle*) n. anatomy - having leaves smaller than normal leaves.

microstomous (*franç. microstome*) **n.** anatomy - relative to a capsule, with a small, narrow mouth.

microstomous capsule (*Ulotrichum coarctata*)



midrib (*franç. nervure médiane*) **n.** anatomy - single costa of a leaf or a rib of a thallus.

µm (*franç. µm*) **abb.** measure - abbreviation of « micrometer » or « micron », unit of length, one-thousandth of a millimeter.

minerotrophic (*franç. minérotrophe*) **adj.** habitat/ecosystem - powered by groundwater and runoff waters often richer in minerals than rain water.

minute (*franç. minuscule*) **n.** anatomy - very small.

mire (*franç. marécage*) **n.** habitat/ecosystem.

(sloping) mire/fen (*franç. tourbière de pente*) **loc.** habitat/ecosystem.

(spring) mire (*franç. tourbière de source*) **loc.** habitat/ecosystem.

(transition(al)) mire (*franç. tour-*

-bière de transition) **loc.** habitat/ecosystem.

mitosis (*franç. mitose*) **n.** anatomy - cell division process, without changing the level of ploidy.

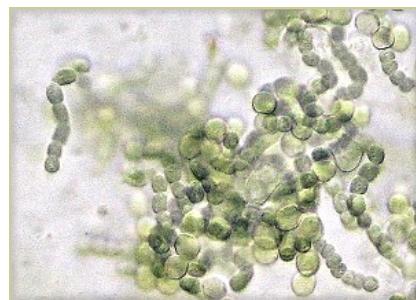
mitriform, mitrate (*franç. mitriforme*) **adj.** anatomy - similar to a bishop's mitre. **mitriform-lobate**

(*Grimmia elatior*)



moist (*franç. humide*) **adj.** anatomy - hydrated.

moniliform (*franç. moniliforme*) **adj.** anatomy - similar to a string of beads. **moniliform** (*Nostoc*) (*Blasia pusilla*)



monoicous (*franç. monoïque*) **adj.** anatomy - with antheridia and archegonia on the same plant, bisexual. (including autoicous, synoicous, paroicous). **[ant.dioicous]**

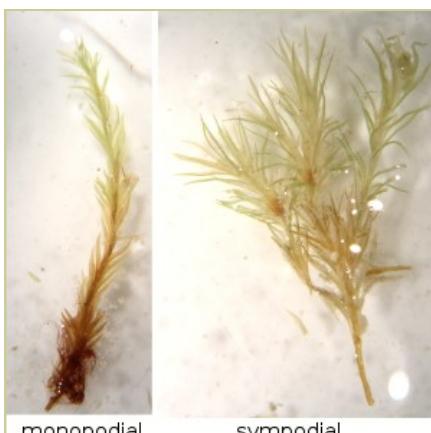
see Plate 10

monoicous species (*Pellia epiphylla*)



monomorphic (*franç. monomorphe*, *monomorphous*) **adj.** anatomy - of a single form.

monopodial (*franç. monopodial*)
adj. anatomy - form of growth, wherein the plant develops on a single continuous axis, the same initial cell continues its development at each cycle. **monopodial** growth/*sympodial* growth (*Eucladium verticillatum*)



moraine (*franç. moraine*) **n.** habitat/ecosystem.

morphology (*franç. morphologie*)
n. anatomy - form or appearance of a plant.

morphose (*franç. morphose*) **n.** anatomy - manner of morphological transformation which is not due to heredity.

mortar (*franç. mortier*) **n.** support.

moss (*franç. mousse*) **n.** nomenclature/taxonomy/systematic - plant belonging to the division Bryophyta (or the class Bryopsida).

mountain (*franç. montagne*) **n.** habitat/ecosystem.

mucilage cavity (*franç. cavité mucigène*) **loc.** anatomy - specialized internal cavity that contains mucilages and sometimes also cyanobacteria.

mucilage papilla (*franç. papille mucigène*) **loc.** anatomy. papille that contains mucilages.

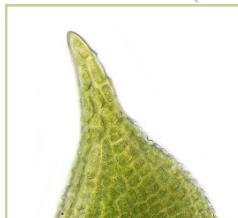
mucilage cell (*Reboulia hemisphaerica*)



mucro (*franç. mucron*) n. anatomy - short point, clearly marked.

mucronate (*franç. mucroné*) adj. anatomy - ending in a mucro.

mucronate leaf (*Barbula unguiculata*)



mud (*franç. boue, vase*) n. support - soft, sticky matter resulting from the mixing of earth and water, causing water to lose its clarity.

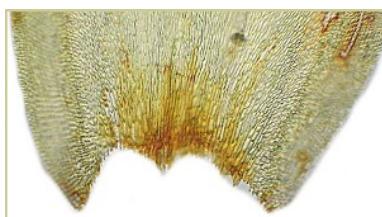
mudflat (*franç. vasière*) n. habitat/ ecosystem.

multi- (*franç. multi-*) pref. anatomy - prefix meaning « several ».

multicellular (*franç. spore multicellulaire*) adj. anatomy - with many cells.

multicostate (*franç. multinervuré*) adj. anatomy - with several nerves.

multicostate leaf (*Antitrichia curtipendula*)



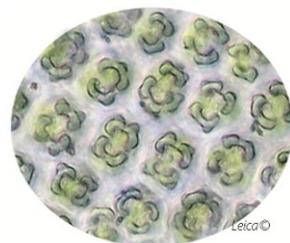
multifid (*franç. multifide*) adj. anatomy - divided several times.

multifid
(*Riccardia multifida*)



multipapillose (*franç. multipapilleux*) adj. anatomy - with several papillae per cell.

multipapillose cells (*Syntrichia calcicola*)



multistratose (*franç. multistriate*) adj. anatomy - with several layers.

muricate (*franç. muriqué*) adj. anatomy - with a rough surface, with many small asperities (like bumps on the tongue).

muticous (*franç. mutique*) adj. anatomy - without awn, hair-point or mucro. **muticous leaf** (*Grimmia unicolor*)





1n (*franç. n*) **abb.** genetic - haploid chromosome number, specific to gametes.

narrow (*franç. étroit*) **adj.** anatomy - thin, little width.

naked (*franç. nu*) **adj.** anatomy - without ornate decorations, without hairs or without perichaetial leaves.

natural area (*franç. aire naturelle*) **loc.** chorology - the area where the species is considered to be native.

naturalized (*franç. naturalisé*) **adj.** protection - introduced species which naturally reproduces in its new territory; also, area lacking current disturbance.

NE (*franç. NE*) **abb.** protection - Not Evaluated.

nematodontous (*franç. nematodonte*) **adj.** anatomy - said of a moss peristome, the teeth are formed of whole cells and not fragments of cells. These teeth are not hygroscopic. [ant.**arthrodontous**]

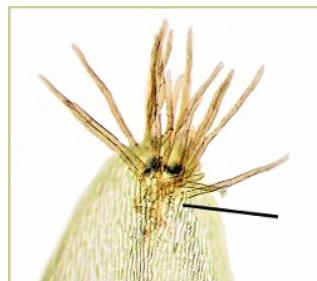


nematodontous
(*Tetraphis pellucida*)

nematodontous (*Atrichum undulatum*)



nematogon (*franç. nématogone*) **adj.** anatomy - initial cell that will produce a rhizoid. **nematogon cell** (*Straminergon stramineum*)



nematogonous (*franç. nématogone*) **adj.** anatomy - filamentous.

neotropic (*franç. néotropique*) **adj.** chorology - of geographic regions including Central America, Antilles, a large part of the northern part of South America and the Galapagos Islands.

neotype (*franç. néotype*) **n.** nomenclature/taxonomy/systematic - specimen designated as the type of a taxon in the absence of any original material.

nerve (*franç. nervure, costa*) **n.**

anatomy - relative to a leaf, thickened and differentiated band that separates the leaf in the longitudinal sense. [see Plate 8](#)

network (*franç. réseau*) n. anatomy - reticulation.



network
(*Conocephalum salebrosum*)

- in terminology, codified set of terms used for the denomination of species.

normal (*franç. normal*) adj. anatomy - usual.

Nostoc (*franç. nostoc*) n. anatomy - Genus of cyanobacteria.

nostocs colony (*Blasia pusilla*)



Nostoc



(ecological) niche (*franç. niche écologique*) loc. habitat/ecosystem - role of a species in its ecosystem.

nitidous (*franç. nitide*) adj. color - bright shiny appearance.

nitrocline (*nitrocline*) adj. life strategy - depth in the water column where nitrate concentration differences are $> 0.5 \mu\text{g L}^{-1}$ depth $^{-1}$.

nitrophilous (*franç. nitrophile*) adj. life strategy - preferring substrates rich in nitrogen compounds.

nodose (*franç. noueux*) adj. anatomy - relative to endostomial cilia, with knob-like.

nodulose (*franç. noduleux*) adj. anatomy - with small, knob-like thickenings

nomenclature (*franç. nomenclature-re*) n. nomenclature/taxonomy/

NT (*franç. NT*) abb. protection - Near Threatened.



oak (*franç. chêne*) n. support - in genus *Quercus*.

oak forest (*franç. chênaie*) n. habitat/ecosystem - forest where *Quercus* is dominant.

ob- (*franç. ob-*) pref. anatomy - prefix meaning inversely, reversed, upside down (obcordate, obconical, obovoid ..).

obconical (*franç. obconique*) adj. anatomy - like a cone but upside down, with attachment at pointed end.

obcordate (*franç. obcordé*) adj. anatomy - like a heart but upside down.

obcordate apex (*Tortula obcordata*)



oblade (cell) (*franç. plus large que long*) adj. anatomy - wider than long.

oblique (*franç. oblique*) adj. anatomy - inclined.

oblong (*franç. oblong*) adj. anatomy - rounded at both ends, longer than broad and wider in the middle.

obovate (*franç. obovale*) adj. anatomy - like an egg but upside down (said of a plane surface).

obvoid (*franç. obovoïde*) adj. anatomy - like an egg but upside down (said of a solid).

obsolete (*franç. obsolète*) adj. anatomy - most missing.

obscure (*franç. indistinct*) adj.

anatomy - difficult to distinguish, indistinct.

obtuse (*franç. obtus*) adj. anatomy - rounded.

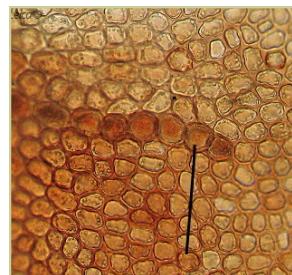
obtuse apex
(*Schistidium sordidum*)



oceanic (*franç. océanique*) adj. chorology - relative to parts of the West of temperate Europe, often used to refer to climate influenced by the ocean.

ocellus (*franç. ocelle*) n. anatomy - in liverworts, differentiated cell, large size, which includes one or more large oil bodies. **ocellus**

(*Frullania tamarisci*)

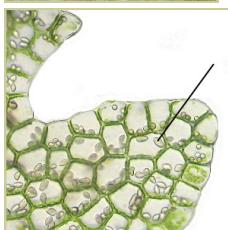
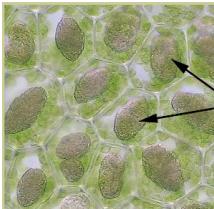


ochrea (*franç. ochréa*) n. anatomy - relative to a moss, membranous sheath at the base of the seta, *vaginula*.

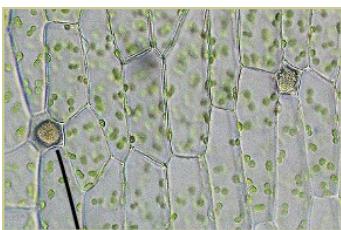
o c h r e a
(*Orthotrichum patens*)



oil body (*franç. oléocorps*) **n.** anatomy - in some liverworts, in a cell, structure limited by a membrane and containing particular terpenes.



oil-cell (*franç. oléocellule*) **n.** anatomy – in thallose liverworts, idio-blastic cell with single large oil body. **oil cel** (*Ricciocarpus natans*)



oligo- (*franç. oligo-*) **pref.** anatomy – prefix meaning « few ».

oligotrophic (*franç. oligotrophe*) **adj.** life strategy - referring to a soil, mineral-poor, poor in nutrients so having little fertility.

olivaceous (*franç. olivacé*) **adj.** color - olive green.

ombrophilous (*franç. ombrophile*) **adj.** life strategy – referring a plant, tolerant of wet conditions, *i.e.* much rain.

oogamy (*franç. oogamie*) **n.** anatomy - mode of fertilization, the female gamete is motionless, the male gamete moves.

op. cit. (*franç. op. cit.*) **abb.** publication - abbreviation for « *opus citatum* » meaning « mentioned, cited above ».

opaque (*franç. opaque*) **adj.** color - not transparent.

open-field (*franç. plein champ*) **loc.** habitat/ecosystem.

operculate (*franç. operculé*) **adj.** anatomy - with a lid.
see also deoperculate

operculum (*franç. opercule*) **n.** anatomy - relative to a sporophyte, lid that blocks the capsule mouth (lid is dehiscent to reveal the spores). **operculum** (*Brachytheciastrum velutinum*)



OPL (*franç. OPL*) **abb.** anatomy - referring to a peristome, « outer peristomial layer ».

opposite (*franç. opposé*) **adj.** anatomy - referring to an arrangement of the leaves, in pairs on either side of a stem.

opposite leaves (*Southbya nigrella*)



.opsida (*franç. .opsida*) **suf.** nomenclature/taxonomy/systematic - suffix applied to a class (Bryopsida, Sphagnopsida...).

orbicular (*franç. orbiculaire*) **adj.** anatomy - circular.

orchard (*franç. verger*) **n.** habitat/ecosystem.

order (*franç. ordre*) **n.** nomenclature/taxonomy/systematic – subdivision of a class.

orifice (*franç. orifice*) **n.** anatomy - opening.

orophyte (*franç. orophyte*) **n.** life strategy - plant of the mountains.

ostiole (*franç. ostiole*) **n.** anatomy - small opening.

outer peristome (*franç. péristome externe*) **adj.** anatomy – see exostome

ovum (*franç. oosphère*) **n.** anatomy - female gamete.

outcrop (*franç. affleurement*) **n.** habitat/ecosystem.

overhang (*franç. surplomb*) **n.** habitat/ecosystem.

ovoid (*franç. ovoïde*) **adj.** anatomy - shaped like an egg.



pachydermous (*franç. pachyderme*) **n.** anatomy- thick-walled cells (stem, capsule).

pachyphyllous (*franç. pachyphylle*) **adj.** anatomy - with thick leaves.

paired, binate (*franç. apparié*) **adj.** anatomy - in group of two.

paleaceous (*franç. paléacé*) **adj.** anatomy – having the consistency of straw.

pallid (*franç. pâle*) **adj.** color - deficient in color.

palmate (*franç. palmé*) **adj.** anatomy - relative to thallose liverwort, with finger-like lobes, radiating from center.

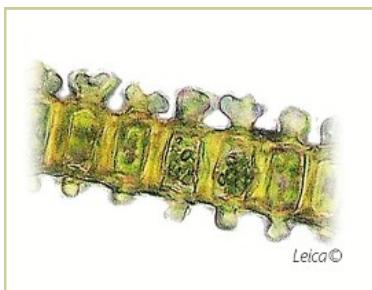
palmate thallus (*Riccardia palmata*)



paludicolous (franç. *paludicole*)
adj. life strategy - growing in marshes, in swamps.

panduriform (franç. *panduriforme*) adj. anatomy - shaped like a violin case.

papilla (franç. *papille*) n. anatomy - cell ornamentation, small protuberance. **papilla** (*Hedwigia ciliata*)



(C-shaped) papilla (franç. *papille en C*) n. anatomy - top view, crescent -shaped papilla.

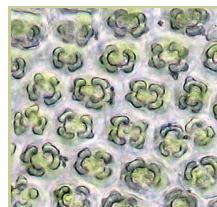
(slime) papilla (franç. *papille mucigène*) loc. anatomy - epidermal cell secreting mucilage.

papillose (franç. *papilleux*) adj. anatomy - with one or several papillae per cell.

papillose cells (*Aulacomnium palustre*)



papillose tissue (*Syntrichia calcicola*)



papyraceous (franç. *papyracé*) adj. anatomy - fine and dry, paper-like.

paraphyllum (franç. *paraphylle*) n. anatomy - accessory leaf, scale or filament scattered on the stems or branches (in some leafy liverworts or pleurocarpous mosses).

paraphyllum (*Thuidium delicatulum*)



paraphysis (franç. *paraphys(e)s*) n. anatomy - sterile hyaline or yellowish hair intermixed with antheridia and archegonia.

paraphysis (*Rhizomnium punctatum*)

paratype (*franç. paratype*) **n.** nomenclature/taxonomy/systematic - specimen cited in the original description, having a different origin from the type specimen.

parenchyma (*franç. parenchyme*) **n.** anatomy - functionnal tissue made up of usually short and isodiametric cells.

parenchymatous (*franç. parenchymateux*) **adj.** anatomy - relative to a cell, isodiametric and thin-walled. [ant. *prosenchymatous*]

parenchymatous tissue (*Mnium stellare*)



monoicous (*franç. paroïque*) **adj.**

anatomy - monoicous plant with antheridia and archegonia on the same inflorescence but non mixed, located in different bracts.
see Plate 10

patent (*franç. patent*) **adj.** anatomy - spreading at an angle greater than 45° (from stem or branch).

pasture (*franç. pâturage*) **n.** habitat/ecosystem.

path (*franç. sentier*) **n.** habitat/ecosystem.

pavement (*franç. dalle rocheuse, pavage*) **n.** habitat/ecosystem.

peat (*franç. tourbe*) **n.** support - accumulation of partially decayed vegetation or organic matter that is unique to natural areas called peatlands, bogs, or mires.

peatland (s.l.) (*franç. tourbière*) **n.** habitat/ecosystem - natural area with accumulation of partly decomposed vegetable matter.

peaty (*franç. tourbeux*) **adj.** habitat/ecosystem- containing peat.

peat-forming (*franç. turfigène*) **adj.** habitat/ecosystem - producing peat.

pebble (*franç. caillou*) **n.** support - small usually rounded stone especially when worn by the action of water.

pectinate (*franç. pectiné*) **adj.** anatomy - like a comb.

pedicellate (*franç. pédicellé*) adj. anatomy - born on a pedicel or a stalk, or a seta.

pedicellate propagule

(*Hyophila involuta*)



pegged (*franç. tuberculé*) adj. anatomy - tuberculate, with peg-like projections. [syn. **tuberculate**]

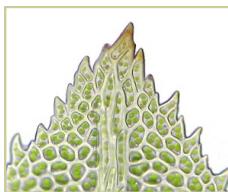
pellucid (*franç. pellucide*) adj. anatomy - transparent, translucent.

peltate (*franç. pelté*) adj. anatomy - shield-shaped, flat and fixed by a central stalk.

pendent (*franç. pendant*) adj. anatomy - relative to a habit, hanging down.

percurrent (*franç. percurrent*) adj. anatomy - relative to a nerve, extending to apex but not beyond.

percurrent nerve



(*Fissidens dubius*)



(*Barbula bolleana*)

perennial (*franç. perenne*) adj. life strategy - surviving multiple years of life.

perfect (*franç. parfait*) adj. anatomy - relative to a peristome, complete, diplolepitous peristome (endostome with segments and cilia), bryoid. see **bryoid**

perforate (*franç. perforé*) adj. anatomy - holed, riddled.
see **cribose**, **fenestrated**

perianth (*franç. périanthe*) n. anatomy - in leafy liverworts, envelope of foliar origin that surrounds the archegonium. **perianth** (*Sphaerocarpos michelii*)



(*Jungermannia hyalina*)



perichaetial (leaves) (*franç. feuilles périchétiales*) adj. anatomy - modified leaves surrounding the female organs.

see **(perichaetial) leaves**

perichaetial (leaves) (franç. feuilles périchétiales) adj. anatomy - modified leaves surrounding the female organs.



(perichaetial) leaves
(*Andreaea frigida*)

perichaetium (franç. périché-tium) n. anatomy - female inflorescence, gynoecium.



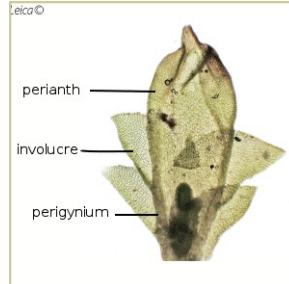
perigonal leaf perigonium

perigonial (leaves) (franç. feuilles pégoniales) adj. anatomy - differentiated leaves that surround antheridia. **perigonial leaf** (*Jungermannia atrovirens*)



perigynium (franç. périgyne) n. anatomy - in some leafy liverworts, tubular structure +/- fleshy which surrounds archegonium and subsequently the sporophyte.

involute with perigynium (*Solenostoma hyalinum*)



peristome (franç. péristome) n. anatomy - circular structure (one or two rows of teeth) present at the mouth of a moss capsule. **peristome** (*Tortula subulata Dicranum scoparium*)



(double) peristome (franç. double péristome) loc. anatomy - diplopelidous peristome, including an exostome and an endostome.

double peristome (*Hypnum cupressiforme*) (*Orthotrichum striatum*)



(outer) peristome (*franç. péristome externe*) loc. anatomy - exostome.
see exostome

(inner) peristome (*franç. inner péristome interne*) loc. anatomy - endostome. see endostome

(single) peristome (*franç. péristome simple*) loc. anatomy - peristome with a single row of teeth.



single peristome
(*Schistidium trichodon*)

(outer) peristomial layer (*franç. couche péristomiale externe*) loc. anatomy - OPL, in the arthrodontous mosses, the outermost part of the peristomial cylinder (constituting of the external part of the peristome).

(inner) peristomial layer (*franç. couche péristomiale interne*) loc. anatomy - IPL, in the arthrodontous mosses, the innermost part of the peristomial cylinder (constituting of the internal part of the peristome).

(primary) peristomial layer (*franç. couche péristomiale primaire*) loc. anatomy - PPL, in the arthrodontous mosses, the median part of the peristomial cylinder (which contributes to the formation

of the inner part of the exostome and the outer part of the endostome.

persistent (*franç. persistant*) adj. anatomy - not falling, not deciduous.

petrocolous (*franç. pétricole*) adj. life strategy – growing on stone or rocks.

petrophilous (*franç. pétrophile*) adj. life strategy - preferring stones habitats.

phaneropore (*franç. phanéropore*) adj. anatomy - relative to a stoma, guard cells are at the same level as adjacent exothelial cells.

phaneropore pore
(*Orthotrichum affine*)



phenotype (*franç. phénotype*) adj. nomenclature/taxonomy/systematic - appearance characters of a species resulting from the interaction of genotype and the environmental conditions.

.phile (*franç. .phile*) suf. life strategy - suffix meaning « that likes », « that prefers ».

phorophyte (*franç. phorophyte*) n. support - plant bearing epiphytic species.

photophilous (*franç. photophile*) adj. life strategy - loving well-lit habitats.

photophyte (*franç. photophyte*) n.
life strategy - plant of well-lit habitats.

photosynthate (*franç. photosynthèse*) n. life strategy - synthesised of organic matter from the energy of the sun.

phototropism (*franç. phototropisme*) n. life strategy - growth form, orientation of the plant depends to the light factor.

phyllidium (*franç. phyllidium*) n.
anatomy - leaf of a bryophyte, non-vascular leaf.
see Plate 7

phyllotaxy (*franç. phyllotaxie*) n.
nomenclature/taxonomy/systematic - spiral arrangement of leaves on a stem.

phylogeny (*franç. phylogénie*) n.
nomenclature/taxonomy/systematic - evolutionary history of a group of organisms.

phylum (*franç. phylum*) n. nomenclature/taxonomy/systematic - division of a kingdom.

.phyta (*franç. .phyta*) suf. nomenclature/taxonomy/systematic - suffix applied to a phylum of the plant kingdom (e.g. Bryophyta).

.phytic (*franç. .phyte*) suf. anatomy - suffix meaning « plant ».

Phytosociological nomenclature (suffixes)

- etum : Association
- ion : Alliance
- etalia : Order
- etea : Class
- etosum : Subassociation
- enion : Suballiance
- enalia: Suborder
- enea : Subclass

pilose (*franç. pileux*) adj. anatomy - covered with long hairs.



pilose calyptra
(*Polytrichum piliferum*)

piliferous (*franç. pilifère*) adj. anatomy - ending with a hair. **piliferous leaves**



(*Syntrichia ruralis*)

(*Grimmia ovalis*)



pine (*franç. pin*) n. support - in genus *Pinus*.

pinnate (*franç. penné*) adj. anatomy – relative to a habit, feathery, in bryophytes, having branches arranged on either side of the stem.



pioneer (*franç. pionnier*) adj. life strategy - relative to a plant, first colonizer of a disturbed habitats or an uncolonized area.

piriform (*franç. pyriforme*) adj. anatomy – pear-shaped.

pit (*franç. pore*) adj. anatomy - pore.

plain (*franç. plaine*) n. habitat/ ecosystem.

plane (*franç. plan*) adj. anatomy - relative to a leaf margin, flat, non curved.



plasmodesma (*franç. plamodesme*) n. anatomy - narrow thread allowing intercellular communication.

plant life-form (*franç. type biologique*) loc. life strategy - growth form.

plesiomorphous (*franç. plésiomorphe*) adj. anatomy - nearly identical in form.

pleurocarpous (*franç. pleurocarpe*) adj. anatomy – moss on which the sporophyte is produced on a short lateral branch. **pleurocarpous moss** (*Thamnobryum alopecurum*)



plicate (*franç. plissé*) adj. anatomy - marked by longitudinal furrows or pleats.



plum (*franç. prunier*) n. support - in genus *Prunus*.

plumose (*franç. plumeux*) adj. anatomy - regularly pinnate, appearance of a feather.

pluri- (*franç. pluri-*) pref. anatomy - prefix meaning « several ».

pluripapillose (*franç. pluripapilleux*) adj. anatomy - relative to a cell, which has several papillae.
see multipapillose

pluriseriate (*franç. plurisérié*) adj. anatomy - arranged in several rows.

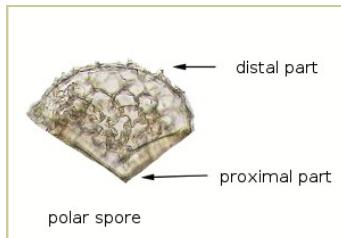
pluristratose (*franç. pluristrate*) adj. anatomy - having several layers of cells.

pneumathode (*franç. pneumato-de*) n. anatomy - air pore.

polar(spore) (*franç. spore polaire*) adj. anatomy - with a proximal face different from the distal face.

[ant. **apolar spore**]

polar spore (*Sphaerocarpos michelii*)



poly- (*franç. poly-*) pref. anatomy - prefix meaning « many », « numerous ».

polycarpic (*franç. polycarpe*) adj. anatomy - that has several sporophytes per perichaetium or perianth.

polygamous (*franç. polygame*) n. life strategy - heteroicous, having some male branches, some female, and some both.

polymorphous (*franç. polymorphe*) adj. anatomy - with a variability of forms.

polyoicous (*franç. polyoïque*) adj. anatomy - that can have several forms of distribution of the gametangia in the same species.

polikiloidric (*franç. polikiloidrique*) n. life strategy - entering dormancy during dry periods and resuming metabolic activity very rapidly during rehydration.

polyploid (*franç. polyploïde*) adj. anatomy - organism with chromosome number greater than $2x$ (triploid, tetraploid, hexaploid...), always an exact multiple of x .

polysety (*franç. polysète*) adj. anatomy - relative to a moss, having several setae so several sporophytes in the same inflorescence.
see polycarpous

polytrichoid (*franç. polytrichoïde*) adj. anatomy - having a habit of a *Polytrichum*.

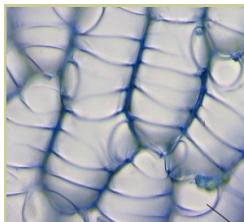
pomiform (*franç. pomiforme*) adj. anatomy - apple-shaped.

pond (*franç. mare, étang*) n. habitat/ ecosystem.

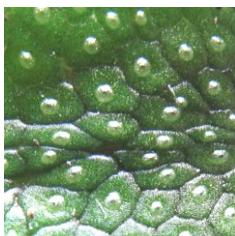
poplar (*franç. peuplier*) n. support - in genus *Populus*.

population (*franç. peuplement*) **n.**
life strategy - group of individuals of
the same species inhabiting the
same area.

pore (*franç. pore*) **n.** anatomy – ope-
ning, aperture. **pore**



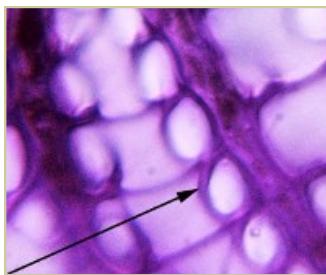
(*Sphagnum
centrale*)



(*Conocephalum
salebrosum*)

(ringed) pore (*franç. pore annelé*)
loc. anatomy - pore circled.

ringed pore (*Sphagnum subsecundum*)



(commissural) pore (*franç. pore
commissural*) **loc. anatomy** - pore
located along the junctures, such as
adjoining walls of hyaline and
photosynthetic cells of *Sphagnum*.

commissural pore
(*Sphagnum subsecundum*)



(compound) pore (*franç. pore
composé*) **loc. anatomy** - in some thal-
lose liverworts, epidermal pore
with a cylindric wall.

compound pore



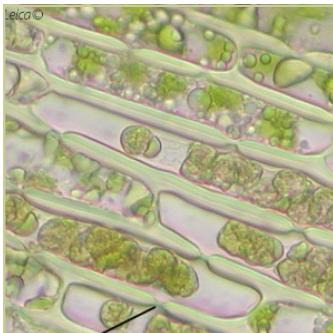
(*Marchantia
polymorpha
ruderalis*)

(air) pore (*franç. pore épidermique*) **loc. anatomy** - small orifice in
the upper epidermis.

(simple) pore (*franç. pore simple*)
n. anatomy - in thallose liverworts,
epidermal pore surrounded only by
cells directly extending the epider-
mis. **simple pore** (*Conocephalum salebro-
sum*)



porose (*franç. porose*) adj. anatomy - perforate by pores.
porose tissue (*Dicranum bonjeanii*)



posterior (*franç. postérieur*) adj. anatomy - ventral (face), adaxial (face). [ant. anterior]

postical (*franç. postical*) adj. anatomy - ventral (upper) surface of a stem or thallus. [ant. antical]

potamocolous (*franç. vivant dans les rivières*) n. life strategy - growing in rivers, streams.

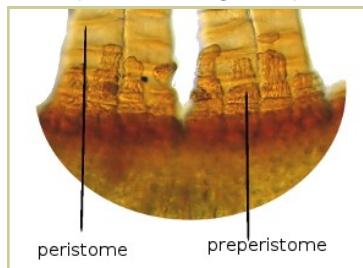
pottiod (*franç. pottioïde*) adj. anatomy - referring to habit, like a member of Pottiaceae.

PPL (*franç. PPL*) abb. anatomy - abbreviation meaning « primary peristomial layer ».

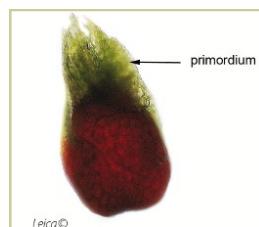
see **(primary) peristomial layer**

preperistome (*franç. prépéristome=prostome*) n. anatomy - rudimentary structure outside to the peristome, usually adherent to the teeth.
[**syn. prostome**]

preperistome (*Orthotrichum cupulatum*)



primordium (*franç. primordium*)
n. anatomy - first stage of differentiation of the leaf or other organ.
leaf **primordium** (*Pohlia drummondii*)



procumbent (*franç. couché*) adj. anatomy - prostrate. **procumbent habit**

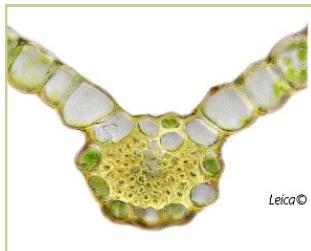


(*Plagiognathum affine*)

prolate (cell) (*franç. plus long que large*) adj. anatomy - longer than wide. [ant. oblate]

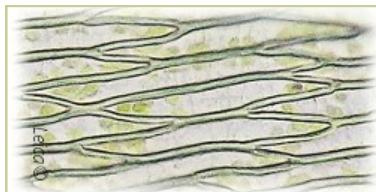
proliferous (*franç. prolifère*) adj. anatomy - growth continues by development of new leafy stems or innovations.

prominent (*franç. proéminent*)
adj. anatomy – conspicuous, clearly visible. **prominent nerve**



(*Tayloria acuminata*)

prosenchymatous tissue
(*Rhynchostegiella tenuicaulis*)

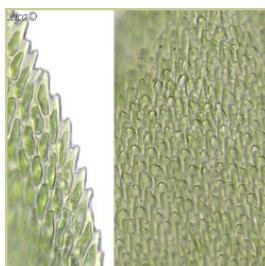


propagulum (*franç. propagule*) n.
anatomy - structure specialized in vegetative reproduction.
see Plate 9

propaguliferous (*franç. gemmifère*) adj. anatomy - bearing propagules.

pro parte (*franç. pro partie*) loc.
nomenclature/taxonomy/systematic - part.

prorate (*franç. proré*) adj. anatomy – relative to a cell, having a papilla or a mamilla located at the distal end. **prorate cells**



(*Pterygynandrum filiforme*)

prosenchyma (*franç. prosenchy-me*) n. anatomy – tissue made up of prosenchymatous cells.
[ant. **parenchyma**]

prostome (*franç. prostome*) n.
anatomy - rudimentary structure outside the peristome, usually adherent to the teeth. [syn. **preperistome**] see **preperistome**

prostrate (*franç. prostré*) adj.
anatomy - relative to habit, lying flat on the substratum, creeping.
prostrate habit (*Radula complanata*)



prosenchymatous (*franç. prosen-chymateux*) adj. anatomy – relative to cells, narrow, elongated tapering and overlapping at ends.
[ant. **parenchymatous**]

protandrous (*franç. protandre*)
adj. anatomy - monoicous, on the same plant the maturity of antheridia come before that of archegonia (self-fertilization is minimized).
[ant. **protogynous**]

(bryophyte) conservation /conservation des bryophytes

CR (franç. CR) Critically Endangered.

DD (franç. DD) Data Deficient.

EN (franç. EN) Endangered.

EX (franç. EX) Extinct.

LC (franç. LC) Least Concerned.

NE (franç. LE) Not Evaluated

NT (franç. NT) Near Threatened.

IUCN (franç. UICN) International Union for Conservation of Nature.

VU (franç. VU) Vulnerable.

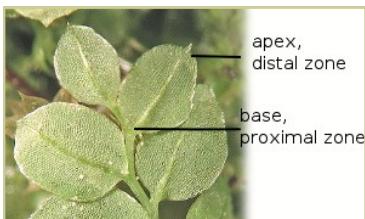
protologue (franç. protologue) n. nomenclature/taxonomy/systematic - the first description of a taxon.

protonema (franç. protonéma) n. anatomy - filamentous or thalloid structure produced by spore (or propagulum) germination.

protonema (*Pogonatum aloides*)



proximal (franç. proximal) adj. anatomy - located at the base near the point of attachment. see also polar spore. **proximal zone of leaf** (*Cyrtomnium hymenophylloides*)



pruinose, pruinate (franç. pruineux) adj. anatomy - covered with bluish or whitish powdery granules or bloom.

psammophile (franç. psammophile) adj. life strategy - growing on or in the sand.

pseudo- (franç. pseudo-) pref. anatomy - prefix meaning « false ».

pseudoautoicous (franç. pseudautoïque) adj. anatomy - dioicus, but with male plant growing (epiphytically) on a female plant.

pseudodistichous (franç. pseudodistique) adj. anatomy - highly compressed, with leaves in spiral arrangement, but appearing to lie in two rows.

pseudoelater (franç. pseudoélatère) n. anatomy - in some hornworts, false elater, generally multicellular. **pseudoelater** (*Anthoceros agrestis*)



pseudoparaphyllum (franç. pseudoparaphylle) n. anatomy - in some pleurocarpous mosses, rudimentary leaf present at a branch base.

pseudoperianth (*franç. pseudopérianthe*) **n.** *anatomy* - in some thallose liverworts, tissue produced by the thallus that surrounds archegonia, and subsequent sporophytes.

pseudoperianth



(*Preissia quadrata*)

pseudopodium (*franç. pseudopode*) **n.** *anatomy* - in *Andreaea* and *Sphagnum*, false seta produced by the gametophyte (seta is part of the sporophyte)

pseudopodium
(*Andreaea frigida*)

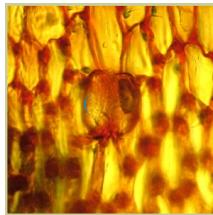


. extension of the stem bearing gemmae.

pseudopore (*franç. pseudopore*) **n.** *anatomy* - in some *Sphagnum*, rudimentary pore not perforated.

pseudostoma (*franç. pseudostome*) **n.** *anatomy* - vestigial stoma with two guard cells but no pore.

pseudostoma
Sphagnum
squarrosum)



pseudothallose (*franç. pseudothalloïde*) **n.** *anatomy* - said of a gametophyte resembling a thallus.

pterygodont (*franç. pterygodonte*) **adj.** *anatomy* - in some Polytrichaceae, type of nematodontous peristome, teeth provided with a ridge or a wing longitudinally.
[ant. leiodont]

pubescent (*franç. pubescent*) **adj.** *anatomy* - covered with short and fine hairs. **pubescent thallus**

(*Apometzgeria*
pubescens)



puddle (*franç. flaque*) **n.** *habitat/ ecosystem.*

puginiform (*franç. puginiforme*) **adj.** *anatomy* - dagger-shaped.

pulvinate (*franç. pulviné, pulviniforme*) **adj.** *anatomy* - cushion-shaped.

pungent (*franç. piquant*) **adj.** *anatomy* - ending in a rigid, sharp point.

pungent stem
Calliergonella
cuspidata)



pustulose (*franç. pustuleux*) adj.
anatomy - covered with blisters or
pimples. **pustulose thallus**



(*Exormotheca
pustulosa*)

pyrenoid (*franç. pyrenoïde*) n.
anatomy - in hornworts, refractive
inclusion in a chloroplast ; proteinaceous
organelle that concentrates CO₂.



quadrat (*franç. carré*) adj. anatomy
- square.

quadrifid (*franç. quadrifide*) adj.
anatomy - divided into four segments.

quadrilobate (*franç. quadrilobé*)
adj. anatomy - having four lobes.
leaf **quadrilobate** to **trilobate**
(*Barbilophozia barbata*)



quag mire, quakingbog (*franç.
tremblant*) n. habitat/ecosystem - in a
bog floating mat, soft boggy area
of land that gives way underfoot.

quarry (*franç. carrière*) n. habitat/
ecosystem.

quinquefarious (*franç. quinquefa-
rié*) adj. anatomy - arranged in five
rows.

quinquefarious
(*Sphagnum
quinquefarium*)



radially symmetric (*franç. symé-
trie radiale*) loc. anatomy - symmetri-
cal around a central axis.

radicle (*franç. radicule*) n. anatomy -
rhizoid (archaic term).

radiculose (*franç. radiculeux*) adj.
anatomy - covered with many rhi-
zoids.

rameal (*franç. raméal*) adj. anatomy
- referring to a leaf, inserted on a
branch. **see also (cauline) leaf**

rank (*franç. rang*) n. anatomy - vertical row.

ravine (*franç. ravin*) n. habitat/ ecosystem.

receptacle (*franç. receptacle*) n. anatomy - disc located on the thallus or on a stipe and bearing sex organs. female and male **receptacles** (*Marchantia polymorpha*)



recurved (*franç. récurvé*) adj. anatomy - curved backwards, downwards. [ant.**incurved**]

reduced (*franç. réduit*) adj. anatomy - incomplete, rudimentary.

reddish (*franç. rougeâtre*) adj. color - having red tinge.

reed bed (*franç. roselière*) n. habitat/ ecosystem.

reflexed (*franç. réfléchi*) adj. anatomy - curved abruptly downwards. [ant.**inflexed**]

relictual (*franç. relictuel*) adj. life strategy - relative to a plant that survives in a favourable but limited space.

remote (*franç. distant*) adj. anatomy - distant.

reniform (*franç. réniforme*) adj. anatomy - kidney-shaped.

repand (*franç. à marge légèrement ondulée*) adj. anatomy - with a slightly wavy margin.

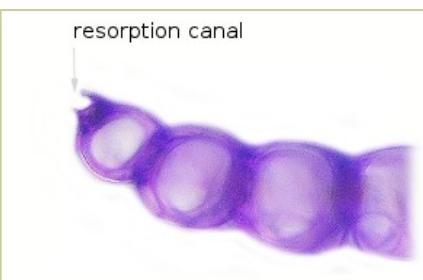
repent (*franç. rampant*) adj. anatomy - referring to habit, creeping, prostrate. **repent habit** (*Homalothecium sericeum*)



(sexual) reproduction (*franç. reproduction sexuée*) loc. anatomy - reproduction with fusion of gametes (males and females).

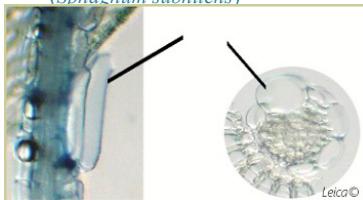
resinous (*franç. résineux*) n. support.

resorption (*franç. resorption*) n. anatomy - in some *Sphagnum* species, disappearance the outer wall of the marginal cell of the leaf. **resorption canal** (*Sphagnum centrale*)



reticulate (*franç. réticulé*) adj. anatomy - forming a network.

retort cell (*franç. ampulla*) n. anatomy - in some species of *Sphagnum*, cortical cells, flask-shaped, ending in a pore. **retort cell** (*Sphagnum subnitens*)

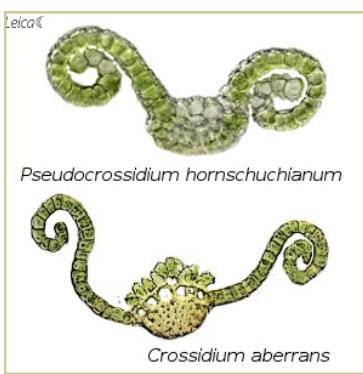


retrorse (*franç. rétrorse*) adj. anatomy - folded or curved backwards or downwards. [ant.**antorse**]

retuse (*franç. retus*) adj. anatomy - relative to a leaf apex : narrowly notched, truncate and round.

revolute (*franç. tombant comme une bague*) adj. anatomy- falling off like a ring, referring to annulus.

revolute (*franç. révolué*) adj. anatomy - rolled outwards, towards the abaxial, dorsal, external face. [ant.**involute**] **revolute margin**



rheophilous (*franç. rhéophile*) adj. life strategy - growing in flowing creeks and rivers.

rhizoid (*franç. rhizoïde*) n. anatomy - filament that affixes to substratum (multicellular in mosses, unicellular in liverworts).



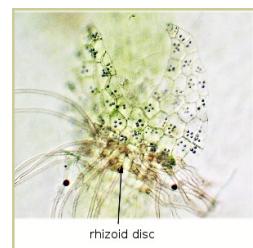
rhizoids
(*Pohlia melanodon*)



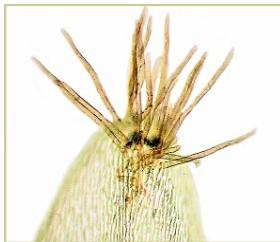
rhizoid
(*Bryum radiculosum*)

rhizoid disc (*franç. disque à rhizoïdes*) loc. anatomy - in leafy liverworts, at the base of an underleaf, pad of tissue bearing rhizoids.

rhizoid disc (*Calypogeia azurea*)



rhizoid initial (*franç. initiale de rhizoïde*) loc. anatomy – cell that generating a rhizoid.



rhizoid initial
(*Straminergon stramineum*)

rhizomatous (*franç. rhizomateux*)
adj. anatomy - having a rhizome.

rhizome (*franç. rhizome*) n. anatomy - perennial underground stem which emits aerial stems. **rhizome**



(*Haplomitrium hookeri*)

rhombic (*franç. rhombique*) adj. anatomy - diamond-shaped.

rib (*franç. nervure*) n. anatomy - costa, nerve.

(double) rib (*franç. double nervure*) n. anatomy - two ribs side by side.

rill (*franç. ruisseau*) n. habitat/ecosystem.

rim (*franç. ourlet*) n. habitat/ecosystem - outer edge, border, margin, or brink of something.

ringed (*franç. cerclé*) adj. anatomy - in some *Sphagnum* species, relative to a pore, surrounded by a circle, a ring. **see also (ringed) pore**

riparian (*franç. riverain*) adj. life strategy - growing along a river.

river (*franç. rivière*) n. habitat/ecosystem.

river ecosystem (*franç. écosystème fluvial*) loc. habitat/ecosystem.

river bed (*franç. lit de rivière*) loc. habitat/ecosystem.

rock, boulder (*franç. rocher*) n. support.

rock stack (*franç. banc rocheux, récif*) loc., n. habitat/ecosystem.

rock face (*franç. paroi rocheuse*) loc. habitat/ecosystem.

rotund (*franç. arrondi*) adj. anatomy - round, obtuse.

roof (*franç. toit*) n. habitat/ecosystem.

root (*franç. racine*) n. support .

root nodule (*franç. nodosité*) n. anatomy - outgrowth on root that houses nitrogen-fixing bacteria.

rosaceous (*franç. rosé*) adj. color - having a dusty purplish pink color.

rosette (*franç. rosette*) n. anatomy - referring to habit, cluster of leaves at the same level, thalli radiately spreading.

spreading, **rosette** (*Riccia sorocarpa*)



rosette (*Rhodobryum ontariense*)



roseus (*franç. rosé*) adj. color - rosy or pink.

rostellate (*franç. rostellé*) adj. anatomy - with a short beak.

rostrum (*franç. rostre*) n. anatomy - relative to a capsule, beak of the operculum. **rostrum**



(*Kindbergia
praelonga*)

rostrate (*franç. rostré*) adj. anatomy - with a long beak.

rosulate (*franç. rosulé*) adj. anatomy - relative to a habit, forming a rosette (growing on one level).

rotting stump (*franç. souche dé-composée*) loc. habitat/ecosystem.

rotten wood (*franç. bois pourri*) loc. support - decaying tree, log, or stump.

row (*franç. rangée*) n. anatomy - line, alignment.

rubescent (*franç. rubescence*) adj. color - reddening.

rubrous (*franç. rouge*) adj. color.

ruderal (*franç. ruderal*) adj. life strategy - relative to a place strongly influenced by human activities.

rudimentary (*franç. rudimentaire*) adj. anatomy - vestigial, poorly developed.

rufescent (*franç. rufescence*) adj. color - tinged with red or reddish brown.

rufous (*franç. rufous*) adj. color - reddish brown.

runoff (*franç. ruissellement*) n. habitat/ecosystem - draining away of water from land surface.

rupestral (*franç. rupestre*) adj. life strategy - growing on the rocks.

rut (*franç. ornière*) n. habitat/ecosystem.



sabulicolous (*franç. sabulicole*) adj. life strategy - growing in gravel or sand.

saccate (*franç. sacciforme*) adj. anatomy - bag shaped.

sacculus (*franç. saccule*) n. anatomy - small bag-like, utricle.

sagittate (*franç. sagitté*) adj. anatomy - arrow-head shaped.

sample (*franç. échantillon*) n. anatomy - specimen.

sand (*franç. sable*) n. support .

sandstone (*franç. grès*) n. support.

sand pit (*franç. sablière*) n. habitat/ ecosystem.

saprolignicolous (*franç. saproli-gnicole*) adj. life strategy - growing on decaying wood.

saprophyte (*franç. saprophyte*) n. life strategy - plant that grows on dead organic matter.

saprophytic (*franç. saprophyti-que*) adj. life strategy - growing on dead organic matter.

saxicolous (*franç. saxicole*) adj. life strategy - growing on rocks.
[syn.epilithic, rupestral]

scabrous (*franç. scabre*) adj. anatomy - rough.

scale (*franç. écaille*) n. anatomy - in leafy liverworts, fine membran, often scarious.

(dorsal) scale (*franç. écaille dor-sale*) loc. anatomy - referring to a thallose liverwort, colorful or hyaline membrane located at the dorsal surface, most often related to the reproductive structures.

dorsal scale (*Moerckia flotoviana*)



(ventral) scale (*franç. écaille ven-trale*) loc. anatomy - in thallose liverworts, scale located on the ventral surface of the thallus. **ventral scale** (*Marchantia palcea*)



scalpelliform (*franç. scalpelliforme*) adj. anatomy - asymmetrical and resembling a scalpel blade.

scarious (*franç. scarieux*) adj. anatomy - membranous.

scarce (*franç. rare*) adj. chorology – few localities are known.

sciophilous, skiophilous (*franç. sciophile*) adj. life strategy - preferring shady habitats.

sciophyte (*franç. sciaphyte*) n. life strategy - plant growing in shady habitats.

sciophytic (*franç. sciophile*) adj.. life strategy - growing in shady habitats.

scleroderm (*franç. scléroderme*) n. anatomy - internal tissue made of cells with thickened walls and small lumen.

scree (*franç. éboulis, pierrier*) n. habitat/ecosystem.

scrobiculate (*franç. scrobiculé*) adj. anatomy - with numerous depressions, pitted.

scrubland (*franç. garrigue*) n. habitat/ecosystem.

s.d. (*franç. s.d.*) abb. nomenclature/taxonomy/systematic - abbreviation for « *sine die* » meaning « without date ».

secund (*franç. second*) adj. anatomy -

oriented on the same side.

see **uncinate**

section (*franç. section*) n. anatomy - cut.

(cross) section (*franç. section transversale*) loc. anatomy - a cut perpendicular to the principal axis of the organ.

(longitudinal) section (*franç. coupe longitudinale*) n. anatomy - a cut made lengthwise.

(transverse) section (*franç. coupe transversale*) n. anatomy - a cut made across, widthwise, in particular for the observation of the rib.

sedge swamp (*franç. caricaie*) n. habitat/ecosystem.

seepage (*franç. suintement*) n. habitat/ecosystem.

segment (*franç. segment*) n. anatomy - relative to a capsule, division of the inner peristome (endostome), similar to a tooth.

SEM (*franç. SEM*) abb. microscopie Scanning Electron Microscopy.

sensu (*franç. sensu*) pref. nomenclature/taxonomy/systematic - prefix meaning « in the sense of ».

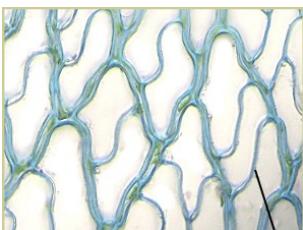
sensu lato (*franç. sensu lato*) loc. nomenclature/taxonomy/systematic - in the broad sense.

sensu stricto (*franç. sensu stricto*) loc. nomenclature/taxonomy/systematic - in the narrow sense.

septate (*franç. septé, cloisonné*)
adj. anatomy - with separating partitions in cells. **septate** propagulum (*Orthotrichum lyelli*)



septum (*franç. septum*) n. anatomy - in some *Sphagnum*, partition in a cell, wall.
septum (*Sphagnum fimbriatum*)



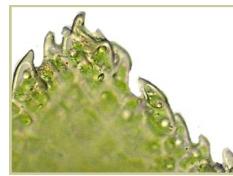
seriate (*franç. sérié*) adj. anatomy - arranged in rows (uni, bi-, tri- or multiseriate).

sericeous (*franç. séricé*) adj. anatomy - having a silky appearance.
sericeous (*Homalothecium sericeum*)



serrulate *franç. serrulé* adj. anatomy - minutely toothed.

serrulate margin
(*Dichodontium pellucidum*)



serrulate margin
(*Dicranodontium asperulum*)



sessile (*franç. sessile*) adj. anatomy - without seta, without stalk.
sessile capsule

(*Cryphaea heteromalla*)



seta (*franç. soie*) n. anatomy – stalk of a sporophyte. **seta**

(*Dicranum scoparium*)



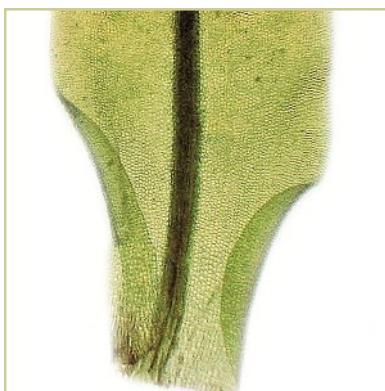
setaceous (*franç. sétacé, sétiforme*) adj. anatomy - long, fine, like a bristle.

shady (*franç. ombragé*) adj. habitat/ecosyste - having full shade.

shaly rocks (*franç. schisteux*) adj. support.

sheath (*franç. gaine*) n. anatomy - tissue that surrounds the base of stem or seta or capsule, (in *Fissidens* : vaginant lamina).
see also (dorsal) lamina

sheathing (*franç. engainant, embrassant*) adj. anatomy - surrounding a stem, seta, capsule or other structure. **sheathing base**
(*Hyophila involuta*)



sheet metal (*franç. tôle*) n. support -

shoot (*franç. pousser*) n. anatomy - stem, leaves and other structures.

shoulder (*franç. constriction, épaulement*) n. anatomy - place where abrupt narrowing is present.

shore (*franç. rivage, rive, littoral, côte, bord*) n. habitat/ecosystem.

shrub (*franç. arbrisseau*) n. habitat/ecosystem - woody plant with several main stems arising from base and

smaller than a tree.

sigmoid (*franç. sigmoïde*) adj. anatomy - S-shaped.

siliceous (*franç. siliceux*) adj. habitat/ecosystem - acidic, having high-silica content (usually poor in bases).

silicicolous (*franç. silicicole*) adj. life strategy - growing on siliceous rocks or sandstone.

single (peristome) (*franç. péristome à un rang*) adj. see haplolepidous

simple (*franç. simple*) adj. anatomy - relative to a stem, to a thallus, which is not branched.
see (simple) thallus

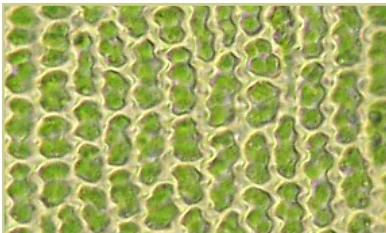
simple pore (*franç. pore simple*) loc. anatomy - air pore surrounded by only 1 layer of superficial (surface) cells. see (simple) pore

sinistrorse (*franç. sinistrorse*) adj. anatomy - referring to the seta : twisted to the left, counterclockwise, when looking from the seta apex (capsule base) to the seta base (sporophyte insertion).
[ant.dextrorse]

sinistrorse
(*Weissia brachycarpa*)



sinuose (*franç. sinueux*) adj. anatomy - wavy. **sinuose walls** (*Racomitrium affine*)



sinus (*franç. sinus*) n. anatomy - indentation between two lobes. **sinus**



(*Marsupella sphacelata*)

skiophilous, sciophilous (*franç. sciophile*) adj. life strategy - preferring shaded habitats.

s.l. (*franç. s.l.*) abb. nomenclature/taxonomy/systematic – abbreviation for « *sensu lato* » meaning « in the broad sense ».

slate (*franç. ardoise*) n. support - fine -grained usually bluish gray rock that splits into thin, flat layers or plates, formed by metamorphosis of clay, shale, etc.

sleeve (*franç. manchon*) n. life strategy - dense mat that surrounds the

base of tree trunks essentially in alluvial forests.

sleeve
(*Anomodon viticulosus*)



slime cell, mucilage cell (*franç. cellule mucigène*) n. anatomy - cell secreting or containing mucilage. **slime cells** (*Reboulia hemisphaerica*)



slime (*franç. mucilage*) n. anatomy - gelatinous secretion (with power of water retention).

slope (*franç. pente, talus*) n. habitat/ecosystem - incline.

s.n. (*franç. s.n.*) abb. herbier - Latin abbreviation for « *sine numero* » meaning « without number ».

snowbed (*franç. combe à neige*) n. habitat/ecosystem.

soil (*franç. sol*) n. habitat/ecosystem/support - complex mixture of minerals, water, air, organic matter, and organisms.

(top) soil (*franç. sol arable*) loc. support.

(gravelly) soil (*franç. sol graveleux*) loc. support.

(loose) soil (*franç. sol meuble*) loc. support.

(bare) soil (*franç. sol nu*) loc. support.

(peaty) soil (*franç. sol tourbeux*) loc. support.

sorb (*franç. sorbier*) n. support - in genus *Sorbus*.

subspecies (*franç. sous-espèce*) n. nomenclature/taxonomy/systematic - subdivision of a species.

sp. (*franç. sp.*) abb. nomenclature/taxonomy/systematic – Latin abbreviation meaning « species ».

spatulate (*franç. spatulé*) adj. anatomy - spatula shape, narrower in the basal part than near the apex.

spatulate leaf (*Syntrichia montana*)



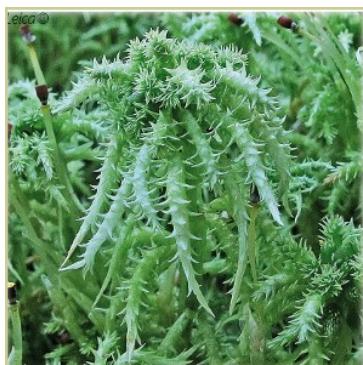
specimen (*franç. spécimen*) n. anatomy - example, part, individual.

species (*franç. espèce*) n. nomenclature/taxonomy/systematic - subdivision of a genus and basic unit of classification.

sphagnoid (*franç. sphagnoïde*) adj. anatomy - a cellular tissue consisting of a network of chlorocysts and hyalocysts, resembling that in *Sphagnum*. **sphagnoid tissue** (*Paraleucobryum longifolium*)



sphagnum, peat-moss (*franç. sphaigne*) n. nomenclature/taxonomy/systematic - plant belonging to the phylum Bryophyta and the class Sphagnopsida. (*Sphagnum squarrosum*)



spherical (*franç. sphérique*) adj. anatomy - globe-shaped.

spinulose (*franç. spinuleux*) adj. anatomy - with small spines.

spinulose spores
(*Microbryum davallianum*)



spinose, spiny (*franç. épineux*) adj. anatomy - with sharp teeth, or with high or sharp papillae or mamillae.

spiral (*franç. spiralé*) adj. anatomy - snail-shaped, helix-shaped, (aspect of some plant in dry state). **spiral** (*Syntrichia inermis*)



splash-cup (*franç. cupule à propagules*) loc. anatomy - cup-shaped structure (dispersion of propagules by water splash). **splash-cup**



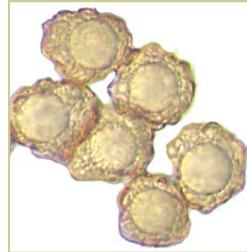
(*Tetraphis pellucida*)

sporadic (*franç. sporadique*) adj. life strategy - appearing irregularly.

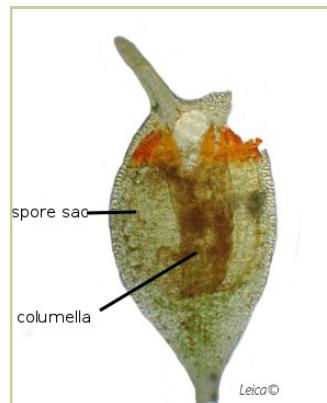
sporangium (*franç. sporange*) n. anatomy – spore sac.

spore (*franç. spore*) n. anatomy - reproductive element, usually haploid, produced in the capsule (result of meiosis). **spore**

(*Microbryum starkeanum*)



spore-sac (*franç. sporosac, sac sporifère*) n. anatomy - cavity located in the urn of capsule and contains spores. **spore-sac** (*Seligeria pusilla*)



sporogonium (*franç. sporogone*) n. anatomy - sporophyte of moss or liverwort. see **sporophyte**

sporophyte (*franç. sporophyte*) n. anatomy - diploid generation of the bryophytes, the spore-bearing generation, consisting of foot, seta and capsule (not the calyptra). see **Plate 2**

sporose (*franç. sporose*) **n.** anatomy - maturity of the spores. **sporose** left (*Schistidium helveticum*) right (*Pylaisia polyantha*)



spp. (*franç. spp.*) **abb.** nomenclature/taxonomy/systematic - meaning more than one species.

spreading, patulous (*franç. étalé*) **adj.** anatomy - relative to a habit of leaves or branches, more or less horizontal and perpendicular to the axis (an angle of 45° or more with the axis). **spreading leaves** (*Rhytidadelphus triquetrus*)



spreading branch (*franç. rameau étalé*) **adj.** anatomy - in *Sphagnum*, branch more or less horizontal, or arched. **see also hanging branch**

spruce (*franç. épicea*) **n.** support - in genus *Picea*.

spruce forest (*franç. pessière*) **n.** habitat/ecosystem - forest with *Picea* as dominant genus.

squamose (*franç. squameux*) **adj.** anatomy - covered with scales.

squamulose (*franç. squamuleux*) **adj.** anatomy - covered with minute scales.

squarrose (*franç. squarreux*) **adj.** anatomy - spread at 90°.

squarrose leaves (*Sphagnum squarrosum*)



squarrose-recurved (*franç. squarreux-récurvé*) **adj.** anatomy - with a right-angle and curved downwards.

s.s. (*franç. s.s.*) **abb.** nomenclature/taxonomy/systematic - Latin abbreviation for « *sensu stricto* » meaning « in the narrow sense ».

ssp. (*franç. ssp.*) **abb.** nomenclature/taxonomy/systematic - abbreviation meaning « subspecies ».

stegocarpous (*franç. stégocarpe*) **adj.** anatomy - relative to a capsule, the operculum is dehiscent, majority of cases in moss species.

stegocarpous capsule (*Schistidium elegantulum*)



stellate (*franç. étoilé*) adj. anatomy - star-shaped.

stellate papillae
(*Hedwigia stellata*)



stellate appearance
(*Pseudocrossidium hornschuchianum*)



stem (*franç. tige*) n. anatomy - inappropriate term in bryology, but widely used for « cauldium ».

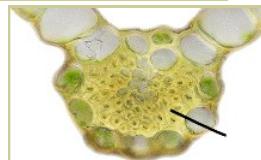
steroid (*franç. stéréide*) n. anatomy - long, slender and thick-walled cell (steroid has a narrow lumen), found in some costae and stems.

steroids

(*Atrichum undulatum*,



(*Tayloria acuminata*)



sterome (*franç. stéréome*) n. anatomy - entire system of steroids.

sterile (*franç. sterile*) adj. anatomy - without structures of reproduction or multiplication (sexual or asexual). [ant. fertile]

stipe (*franç. stipe*) n. anatomy - . in thallose liverworts, false stem bearing male or female receptacles . in dendroid or frondose mosses, stem similar to a trunk.

stipe (*Thamnobryum alopecurum*)

stipe bearing archegoniophore (*Marchantia polymorpha montivagans*)



stipitate (*franç. stipité*) adj. anatomy - with a stipe, a stalk.

stolon (*franç. stolon*) n. anatomy - slender, very elongated stem (or branch) with rudimentary leaves.

stolon

(*Plagiochila poreloides*)



stoloniferous *franç. stolonifère*)

adj. anatomy - with stolons.

stoma (*franç. stomate*) n. anatomy - minute opening (pore) surrounded with two guard cells. **stoma**



(*Anthoceros caucasicus*)

stone (*franç. pierre*) n. support

stone-pit, quarry, stone pit (*franç. carrière de pierres*) loc. habitat/ecosystem.

stramineous (*franç. straminé*) adj. color - straw-colored.

strangulate (*franç. étranglé*) adj. anatomy - constricted under the mouth (some dry capsules).

stratose (*franç. stratifié*) adj. anatomy - in several layers.

stria (*franç. strie*) n. anatomy - small, fine longitudinal line, ridge.

striate (*franç. strié*) adj. anatomy - with streaks.

striolate (*franç. striolé*) adj. anatomy - with minute streaks.

struma (*franç. strume*) n. anatomy - goiter-shaped bulge, e.g. at base of *Oncophorus* capsule.

strumous, strumose (*franç. stru-*

-meux) adj. anatomy - having on one side a goiter-shaped bulge.
strumose
(*Oncophorus virens*)

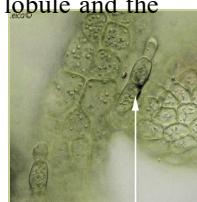


stubble (*franç. chaume*) n. support - basal part of herbaceous plants and especially cereal grass remain protruding from soil after cutting.

stump (*franç. souche*) n. support - remains of base of tree after most of tree has fallen.

stylus (*franç. stylet*) n. anatomy - in some leafy liverworts, little appendage (column) of one or more cells present between the lobule and the stem.

stylus
(*Cololejeunea calcarea*)

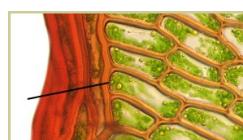


sub- (*franç. sub-*) pref. anatomy - prefix meaning « almost », « nearly », « under ».

subarctic (*franç. subarctique*) adj. chorology - of the regions localised immediately at the south of the Arctic.

submarginal (*franç. submarginal*) adj. anatomy - near the margin.

submarginal
(*Cinclidium stygium*)



substereid (*franç. substéréide*) **n.**
anatomy - cell resembling a stereid
(but thinner cell wall).

substratum (*franç. substrat*) **adj.**
support - substrate; underlying structure.

sabulate (*franç. subulé*) **adj.** anatomy
- tapering to a fine point.

succubous (*franç. succube*) **adj.**
anatomy - in leafy liverworts, observing the upper side of a stem, the base of insertion is clearly visible while the more distal part is hidden. [ant. *incubous*]



succubous
(*Barbilophozia*
hatcheri)



succubous
(*Plagiochila*
asplenoides)

superficial (*franç. superficiel*) **adj.**
anatomy - on the surface.

Supports/supports

alder (*franç. aulne*)
ash (*franç. frêne*)
aspen (*franç. tremble*)

bare soil (*franç. sol nu*)
bark (*franç. écorce*)
beech (*franç. hêtre*)
birch (*franç. bouleau*)
blackthorn (*franç. prunellier*)
boulder (*franç. gros rocher*)
box tree (*franç. buis*)
branch (*franç. branche*)
broadleaved tree (*franç. feuillu*)
bush (*franç. arbuste*)
bush (*franç. buisson*)
calcareous (*franç. calcaire*)
chalk (*franç. craie*)
cherry (*franç. cerisier*)
chestnut (*franç. châtaignier*)
clay (*franç. argile*)
conifer (*franç. confère*)
cork oak (*franç. chêne-liège*)
cypress (*franç. cyprès*)
duff (*franç. litière*)
elder (*franç. sureau*)
elm (*franç. orme*)
fig tree (*franç. figuier*)
fir (*franç. sapin*)
gravelly ground (*franç. sol graveleux*)
gravestone (*franç. pierre tombale*)
gypsum (*franç. gypse*)
hawthorn (*franç. aubépine*)
hazel (*franç. noisetier*)
holm oak (*franç. chêne-vert*)
hornbeam (*franç. charme*)
host (*franç. hôte*)
humus (*franç. humus*)
juniper (*franç. genévrier*)
larch (*franç. mélèze*)
lime tree (*franç. tilleul*)
limestone (*franç. calcaire*)
limon (*franç. limon*)
loess (*franç. loess*)
loose soil (*franç. sol meuble*)
manure (*franç. fumier*)
maple (*franç. érable*)
marl (*franç. marne*)
mica-shist (*franç. micaschiste*)
mortar (*franç. mortier*)
mud (*franç. boue, vase*)
oak (*franç. chêne*)
peat (*franç. tourbe*)
peaty soil (*franç. sol tourbeux*)
pebble (*franç. caillou*)

pine (*franç. pin*)
 plum (*franç. prunier*)
 poplar (*franç. peuplier*)
 resinous (*franç. résineux*)
 rock (*franç. rocher*)
 root (*franç. racine*)
 rotten wood (*franç. bois pourri*)
 sand (*franç. sable*)
 sandstone (*franç. grès*)
 shaly rock (*franç. roche schisteuse*)
 sheet metal (*franç. tôle*)
 slate (*franç. ardoise*)
 sorb (*franç. sorbier*)
 spruce (*franç. épicéa*)
 stone (*franç. pierre*)
 stubble (*franç. chaume*)
 stump (*franç. souche*)
 substratum (*franç. substrat*)
 topsoil (*franç. sol arable*)
 travertine (*franç. travertin*)
 tree (*franç. arbre*)
 trunk (*franç. tronc d'arbre*)
 tufa (*franç. tuf*)
 twig (*franç. brindille*)
 wall (*franç. mur, cloison*)
 walnut (*franç. noyer*)
 willow (*franç. saule*)
 windfall (*franç. chablis*)
 wood (*franç. bois*)

sylvicolous (*franç. sylvicole*) adj.
life strategy - growing in forests.

swamp (*franç. marécage, marais*)
n. habitat/ecosystem -

symbiosis (*franç. symbiose*) n. life strategy - close association between two or more different species, including mutualism, commensalism, amensalism, or parasitism.

sympodial (*franç. sympodial*) adj.
anatomy - form of growth, the plant develops a succession of secondary stems.
see monopodial

synoecium (*franç. synécie*) n. anatomy - synoicous inflorescence, including archegonia, antheridia and the surrounding bracts.

synoicous (*franç. synoïque*) adj.
anatomy - with antheridia and archegonia mixed in the same inflorescence. see Plate 10

systylious (*franç. synstylé*) adj.
anatomy - relative to a capsule, at dehiscence the operculum remains attached to the columella, e.g. in *Schistidium*. systylious (*Schistidium crassipilum*)



syntype (*franç. syntype*) n. nomenclature/taxonomy/systematic - one of the original set of samples of the taxon used to describe and name it.

systematic (*franç. systématique*)
n. nomenclature/taxonomy/systematic - classification of taxa.



tall-herb community (*franç. mé-gaphorbiaie*) n. habitat/ecosystem .

tapering (*franç. en diminuant vers le sommet*) **adj.** anatomy - narrowing towards one end, one tip.

tapetum (*franç. assise tapétale*) **loc.** anatomy - nutritive cell layer lining the inside of the capsule.

taxon (*franç. taxon*) **n.** nomenclature/taxonomy/systematic - organism, entity described, regardless of its rank and its actual value.

taxonomy (*franç. taxonomie, taxinomie*) **n.** nomenclature/taxonomy/systematic - science of classification of organisms.

temperate (*franç. tempéré*) **adj.** chorology - regions between the tropics and the polar circles.

terete (*franç. cylindrique*) **adj.** anatomy - in cross-section, round, cylindrical.

terminal (*franç. terminal*) **adj.** anatomy - at the top, in the distal part of a plant. **terminal bud** (*Sphagnum teres*)



terpenoid (*franç. terpenoïde*) **n.** anatomy - organic compound present in many bryophytes.

terrestrial (*franç. terrestre*) **adj.** habitat/ecosystem - pertaining to land.

terricolous (*franç. terricole*) **adj.** life strategy - growing on soil.

terril (*franç. terril*) **n.** habitat/ecosystem.

tessellated (*franç. mosaïqué, tessellé*) **adj.** anatomy - like a mosaic, checkered.

(basal membrane)

tessellated
(*Tortula subulata*)



Leica®

tetrad (*franç. tétrade*) **n.** anatomy - group of four spores (formed from a spore mother cell).

tetrad
(spores)
Sphaerocarpos michelii



tetrahedral (*franç. tétraédrique*) **adj.** anatomy - pyramid-shape.

tetraploid (*franç. tétraploïde*) **adj.** anatomy - plant, organism with 4n chromosomes.

thallus (*franç. thalle*) **n.** anatomy - form of the gametophyte : blade non-differentiated into stem and leaves.

thallus (*Conocephalum conicum*)



(complex) thallus (*franç. thalle complexe*) loc. anatomy - thallus multistratose with marked differentiation of tissues. **complex thallus** (*Conocephalum salebrosum*)



(simple) thallus (*franç. thalle simple*) n. anatomy - undifferentiated thallus, unistratose or multistratose. **simple thallus** (*Metzgeria furcata*)



thallose, thalloid (*franç. thalloïde*) adj. anatomy - appearance of a thallus. **thallose plant** (*Blasia pusilla*)



theca (*franç. thèque*) n. anatomy - urn. **see urn**

thermophilous (*franç. thermophile*) adj. life strategy - preferring warm places.

thin (*franç. grêle, gracile, fin*) adj. anatomy - fine.

tight (*franç. serré*) adj. anatomy - dense.

thicket (*franç. fourré*) n. habitat/ecosystem - dense group of bushes or trees.

tissue (*franç. tissu*) n. anatomy - mass of cells making up an organ.

tiled roof (*franç. toit de tuiles*) loc. habitat/ecosystem.

tmema (*franç. cellule d'abscission*) loc. anatomy - abscission cell at base of a gemma (breaking to set free the gemma) or parts of a protonema. **tmema** (*Aulacomnium androgynum*)

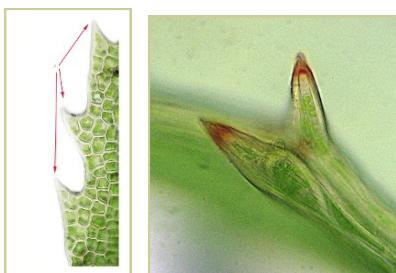


tomentose (*franç. tomenteux*) adj. anatomy - woolly, fluffy, felted.

tomentum (*franç. tomentum*) **n.**
anatomy - felting (abundant rhizoids) covering some stems.
tomentum (*Dicranum scoparium*)



tooth (*franç. dent*) **n.** anatomy -
. relative to peristome, division
. relative to leaf margin, small point. teeth (*Timmia bavarica*) (left)
double teeth (*Mnium marginatum*) (right)



torquate (*franç. tordu*) **adj.** anatomy - twisted.

torrent (*franç. torrent*) **n.** habitat/ ecosystem.

tortuose (*franç. tortueux*) **adj.** anatomy - winding.

tree line (*franç. limite des arbres*)
loc. habitat/ecosystem - edge of habitat at which trees are capable of growing, bordering high elevations and frigid environments; timberline.

trabecula (*franç. trabécule*) **n.**
anatomy - relative to ornamentation of the peristome tooth: horizontal appendage, lateral ridge.
trabecula (*Funaria hygrometrica*)



trabeculate (*franç. trabéculé*) **adj.**
anatomy - having trabeculae, cross-barred.

track (*franç. piste*) **n.** habitat/ ecosystem.

transverse (*franç. transversal*) **adj.**
anatomy - perpendicular to the long axis.

travertine (*franç. travertin*) **n.** support - form of limestone deposited by mineral springs.

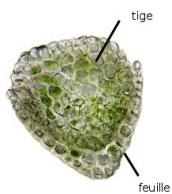
tree (*franç. arbre*) **n.** support - upright woody perennial plant with branches.

tri- (*franç. tri-*) **pref.** anatomy - prefix meaning « three ».

tridentate (*franç. tridenté*) **adj.**
anatomy - with three teeth.

trifarious (*franç. trifarié*) adj. anatomy - arranged in three rows.

[syn.*tristichous*]



trifarious
(*Seligeria trifaria*)

trilete spore
(*Riccia beyrichiana*)

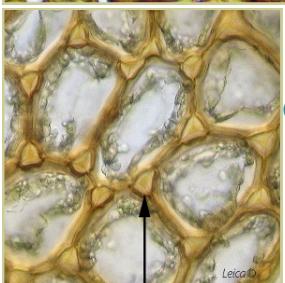
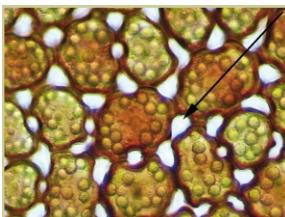


trifid (*franç. trifide*) adj. anatomy - deeply divided into three parts or lobes.

trigone (*franç. trigone*) n. anatomy - in some liverworts, thickenings (generally triangular) in corners of cells. Presence, size and shape are used for specimen identification.

trigone

(*Frullania jackii*)



(*Mylia anomala*)

trilobate (*franç. trilobé*) adj. anatomy - three-lobed.

trilobate leaf
(*Tritomaria quinquedentata*)



tripinnate (*franç. tripenné*) adj. anatomy - three pinnately branched.

tripinnate pleurocarp

(*Thuidium tamariscinum*)



triplet (*franç. triplet*) n. anatomy - group of three, in some *Sphagnum*, group of three pores at the junction of three cells. **triplet** (*Sphagnum subnitens*)



trilete (*franç. triléte*) adj. anatomy - relative to a spore, polar, with a convex distal face and a proximal face with a triradiated ridge.

tristichous (*franç. tristique*) adj. anatomy - arranged in three rows.

[syn.*trifarious*]

tristichous (*Meesia triquetra*)

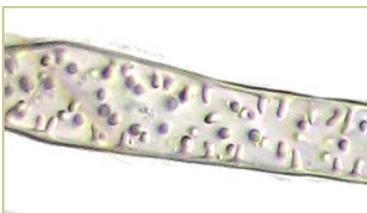


tristratose (*franç. tristrate*) adj.
anatomy - three layers of cells.

trunk (*franç. tronc d'arbre*) n.
support.

truncate (*franç. tronqué*) adj. anatomy - abruptly cut transversely at apex.

tubericle (*franç. tubercule*) n. anatomy - small outgrowth, small round protuberance. tubercles on the rhizoid (*Marchantia polymorpha*)



tuberculate (*franç. tuberculé*) adj.
anatomy- with tubercles, with peg-like projections. [syn. pegged]

tubiform, tubular, tubate (*franç. tubiforme, tubulaire*) adj. anatomy - cylinder-shape, trumpet like.

tufa (*franç. tuf*) n. support - porous rock composed of calcium carbonate and formed by precipitation from water.

tuft (*franç. touffe*) n. anatomy - relative to habit, clump with erect shoots. **tuft**

(*Tortella tortuosa*)



tussock, hummock (*franç. touradon*) n. habitat/ecosystem.

tumid (*franç. gonflé*) adj. anatomy - swollen, inflated.

turbinate (*franç. turbiné*) adj. anatomy - obconic.

turf (*franç. gazon*) n.

. habitat/ecosystem - grass and the surface layer of earth held together by its roots,

. habit - growth form of bryophytes with erect shoots close together.

turf (*Bryum argenteum*)



turgescent (*franç. turgescent*) adj.
anatomy - swollen after hydration.

turgid (*franç. turgide*) adj. anatomy
- swollen, distended.

twig (*franç. brindille*) n. support

twin (*franç. double*) adj. anatomy -
something containing or consisting
of two matching or corresponding
parts.

twist (*franç. torsion*) n. anatomy -
torsion.

type (*franç. type*) n. nomenclature/
taxonomy/systematic - specimen attached
to a scientific name from
which a species has been described.



ubiquitous (*franç. ubiquiste*) adj.
habitat/ecosystem - present in many
types of distinct habitats, everywhere.

IUCN (*franç. UICN*) abb. protection -
International Union for Conservation
of Nature.

umbel (*franç. ombelle*) n. anatomy—
umbrella-shaped, having stalks which extend from a common center.

umbella (*Marchantia polymorpha ruderalis*)



umbilicate (*franç. ombiliqué*) adj.
anatomy - peltate, attached near the
center.

umbonate (*franç. convexe*) adj.
anatomy - having or resembling a
knob or knoblike protuberance.

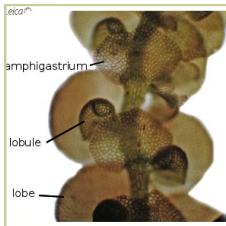
unbroken (*franç. continu*) adj. anatomy - uninterrupted, continuous.

uncinate (*franç. unciné*) adj. anatomy - hook-shaped. leaf **uncinate**



underbrush (*franç. sous-bois*) n.
habitat/ecosystem.

underleaf (*franç. amphigastre*) n.
anatomy - in some leafy liverworts :
leaf located on the ventral face,
generally smaller and different in
shape from that of the other leaves,
amphigastrium.



underleaf

(*Frullania jackii*)



(*Calypogeia neesiana*)

undulate (*franç. ondulé*) adj. anatomy - wavy. **undulate leaves**



(*Neckera
crispa*)

unequal (*franç. inégal*) adj. anatomy - of different size, asymmetric.

unguiculate (*franç. onguiculé*) adj. anatomy - ending in a point, a hook.

uni- (*franç. uni-*) pref. anatomy - prefix meaning « one ».

unpublished data (*franç. donnée inédite*) loc. nomenclature/taxonomy/systematic.

unicellular (*franç. unicellulaire*) adj. anatomy - with a single cell.

unilateral (*franç. unilatéral*) adj. anatomy – one-sided.

unipapillose (*franç. unipapilleux*) adj. anatomy - with a single papilla.

uniseriate (*franç. unisérié*) adj. anatomy - in one row.

unistratose (*franç. unistratifié*) adj. anatomy - one cell layer.

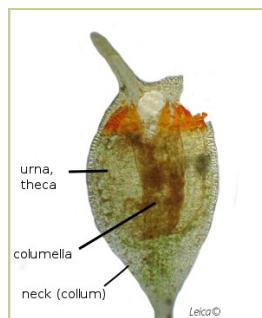
upland (*franç. hauteurs, plateau, montagne*) n. habitat/ecosystem - area of high or hilly land.

upper (*franç. supérieur*) adj. anatomy –

- . relative to a moss leaf, face oriented towards the axis of the stem (= ventral, adaxial)
- . relative to a liverwort thallus, dorsal face
- . referring a zone of the leaf (upper leaf), the distal third of a leaf.
see Plate 7

urceolate (*franç. urcéolé*) adj. anatomy - relative to a capsule : narrowed below the mouth.

urn (*franç. urne*) n. anatomy – spore-bearing portion of the capsule (= theca). **urn**



utricle (*franç. utricule*) n. anatomy - vesicle-shaped appendage.



vacuole (*franç. vacuole*) n. anatomy - small cavity, space or vesicle within cytoplasm of a cell, enclosed by a membrane and typically containing fluid.

valve (*franç. valve*) n. anatomy - relative to some capsules, (especially liverworts, *Andreaea*) one of the parts of the capsule after dehiscence. **valve**

(*Andreaea frigida*)



(*Lophocolea heterophylla*)



vaginate (*franç. vaginé*) adj. anatomy - sheathing.

vaginula (*franç. vaginule*) n. anatomy - sheath surrounding base of seta. **vaginula** (*Orthotrichum stramineum*)



valley (*franç. vallée*) n. habitat/ ecosystem.

(small) valley (*franç. vallon*) n. habitat/ecosystem.

var. (*franç. var.*) abb. nomenclature/ taxonomy/systematic - abbreviation meaning « variety ».

variety (*franç. variété*) n. nomenclature/taxonomy/systematic - the lowest level of classification.

vegetative leaf(ves) (*franç. feuilles végétatives*) loc. anatomy -leaves except those surrounding sexual organs. **vegetative leaf**

(*Syntrichia intermedia*)



vegetative branchlet (*franç. rameau propagule*) n. anatomy - modified branch, having a vegetative propagation function by detaching.

velutinous (*franç. velutineux*) adj. anatomy - silky.

venter (*franç. ventre*) n. anatomy - relative to an archegonium, cavity containing the female gamete (egg.) **venter**



(*Marchantia polymorpha*)

ventral (*franç. ventral*) adj. anatomy . relative to a leaf (face), side placed inside, looking at the stem = inner face = upper face = adaxial face [see Plate 7](#). . in some thallose liverworts, next to the substrate = lower surface . relative to a position (lobe), located near the support.

ventricose (*franç. bombé*) adj. anatomy - convex, stomach-like.

verdigris (*franç. vert-de-gris*) adj. color.

vermicular (*franç. vermiculaire*) adj. anatomy - long and narrow like a worm.

vermicular
propagule
(*Pohlia proligera*)



verrucose (*franç. verruqueux*) adj. anatomy - covered with small protuberances.

vesicular (*franç. vésiculaire*) n. anatomy - with blisters.

vesiculose (*franç. vésiculeux*) adj. anatomy - bladder-like.

vestibule (*franç. vestibule*) n. anatomy - small cavity prior a hollow organ.

viability (*franç. viabilité*) n. life strategy - durability, ability to survive, germinate, or resume growth.

villose (*franç. velu*) adj. anatomy - hairy.

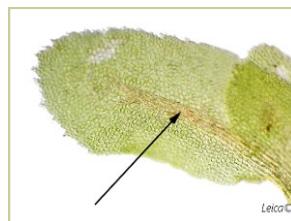
villus (*franç. villosité*) n. anatomy - referring to some paraphyllia, long hair.

vineyard (*franç. vignoble*) n. habitat/ecosystem.

violet (*franç. violet*) adj. color.

vitta (*franç. vitta*) n. anatomy - in some leafy liverworts, a band resembling a rib (only one cell layer thick). **vitta**

(*Diplophyllum albicans*)



VU (*franç. VU*) **abb.** protection - Vulnerable.



wall (*franç. mur, cloison*) **n.**
. support./ continuous brick or stone structure.
. anatomy - partition.

walnut (*franç. noyer*) **n.** support - in genus *Juglans*.

wart (*franç. verrue*) **n.** anatomy - protuberance.

water (*franç. eau*) **n.** loc. habitat/ecosystem.

(spring) water (*franç. eau de source*) **loc.** habitat/ecosystem - water from a spring.

(standing) water (*franç. eau dormante*) **loc.** habitat/ecosystem - lake, pond, pool, puddle.

(free) water (*franç. eau libre*) **loc.** habitat/ecosystem.

(fresh) water (*franç. eau douce*) **loc.** habitat/ecosystem.

waterfall (*franç. cascade*) **n.** habitat/ecosystem.

watercourse (*franç. cours d'eau*) **n.** habitat/ecosystem.

water sac (*franç. lobule à eau*) **n.** anatomy - in some leafy liverworts, inflated or inrolled flap creating lobule, usually filled by water.

weft (*franç. trame, tapis lâche*) **n.** forme de vie - loose growth, and ascending shoots. **weft**
(*Thuidium tamariscinum*)



wetland (*franç. zone humide*) **loc.** habitat/ecosystem.

wetland drainage (*franç. assèchement, drainage des marais*) **loc.** habitat/ecosystem.

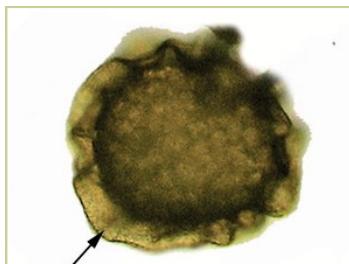
willow (*franç. saule*) **n.** support - in genus *Salix*.

wheatfield (*franç. champ de blé*) **loc.** habitat/ecosystem.

windfall (*franç. chablis*) **n.** support .

wing (*franç. aile*) **n.** anatomy - membranous extension of a leaf, a spore...

wing of a spore (*Asterella gracilis*)



white (*franç. blanc*) adj. color.
[ant.**black**]

widespread (*franç. répandu*) adj.
chorology - plant common over a wide area.

wooded bog (*franç. tourbière boisée*) loc. habitat/ecosystem.

woods/forest (*franç. bois*) n. support
- substrate of lignified tissues from trees.

woods/forest (*franç. bois*) n. habitat/
ecosystem.

woodland (*franç. forêt claire*) loc.
habitat/ecosystem.

xeromorphic (*franç. xéromorphe*)
adj. life strategy - adapted for dryness.

xerophilous (*franç. xérophile*) adj.
life strategy - growing in dry places.

xerophyte (*franç. xéophyte*) n.
life strategy - plant of dry places.



zygomorphic (*franç. zygomorphe*)
adj. anatomy - bilaterally symmetrical.
[ant.**actinomorphic**]

zygote (*franç. zygote*) n. anatomy - diploid cell produced by the fusion of two gametes.



xeric (*franç. xérique*) adj. habitat/
ecosystem - referring to habitat, very dry.

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LINKS

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