

proliferation: a branchlet (or bladelet) formed as irregularly offshoots, smaller than side branches; frequently formed after grazing or erosion of the original branch (or blade)

propagule: branchlet with a special morphology, detaching from the mother plant and each of them producing a new juvenile; typical in *Sphacelaria*

prostrate: lying down on and tightly adhering to the substratum

protrusion: protuberance; bulging part

proximal: nearest to the point of attachment

pseudolateral: a lateral branch derived from a displaced apex

pyramidal: shaped like a pyramid

pyrenoid: an intracellular refractive cytoplasmic body associated with plastids in many algae (e.g. *Ulva*), associated in starch formation in green algae

pyriform: pear-shaped, with the broadest part toward the top end

quadrangular: with four corners

rachis: mainly used in *Caulerpa*; the main axis of the erect frond (assimilator)

radial: radiating (or developing uniformly) from a central point or from an axis

ramelli (or **ramuli**): (last order) branchlets

receptacle: swollen part of a branch bearing reproductive structures

recurved: bent away from the main axis (frequently = bent downwards to the substratum)

reniform: kidney-shaped

repent: creeping along the substrate

reproduction: the formation of new individuals by sexual or non-sexual means

resupinate: thallus horizontally spreading from a vertical wall

reticulate: in the form of a two- or threedimensional net-like structure

reticulum: a two- or threedimensional network

rhizine: an unbranched filament with small diameter and very thick cell wall, resulting in a very small central opening (lumen); strongly refractive on transverse section

rhizoid: a single- or few-celled attachment structure of an alga

rhizome: a creeping (mostly cylindrical) structure from which erect branches arise

rhizophore: an aerial root of a mangrove tree, starting from the basal part of the stem or a branch, bending downwardly and reaching the bottom

rosette: (bladelets) arranged around a central point

rufous: brownish red

sand-dwelling: attached in the sandy substratum

segment: 1. in calcified algae: the large calcified part between the non-calcified joints; 2. in (some) red algae: one central cell and surrounding pericentral cells (if present) and cortex (if present)

segregative cell division: a form of cell division in which a multinucleate protoplast divides into several, rounded daughter protoplasts, which subsequently become surrounded by a wall. The newly formed cells are either released after rupture of the mother cell (*Valonia ventricosa*), remain in situ and form parenchymatic thalli (*Dictyosphaeria*), or rupture old parental walls and form branches (*Struvea*, *Siphonocladus*)

septate: with transverse walls

serrate: saw-edged, with sharp teeth pointing forwards

sessile: not stalked; attached directly to the axis or to a substratum

sinuous: irregularly curving in and out in one plane (a filament or a blade margin)

siphon: aseptate, tubular structure

sorus (sori): a well demarcated surface patch containing a group or cluster of reproductive structures

species: a basic unit of classification; a set of organisms with similar characteristics and which can breed with each other

speckled: with darker (lighter) dots on a lighter (darker) background

spermatangium (-gia): the cell producing the male reproductive cell (spermatium) in red algae

spermatium (-a): non-motile male reproductive cell in red algae

spindle-shaped: thicker centrally and tapering to both ends (= fusiform)

spinose: bearing spines; provided with stiff, sharp-pointed projections

spinulose: bearing small spines

spiralized: coiled

sporangium: a cell producing one or several spores

spore: asexual cell able to germinate into a new plant

sporophyte: the spore-producing phase of a plant

stellate: star-shaped

stenohaline: tolerant only for a narrow range of salinity

stenoionic: tolerant only for a narrow range of ion concentration

stenotherm: tolerant only for a narrow range of temperature

stichidium (-dia): a specialized, generally inflated branch producing tetrasporangia

stipe: stalk; part between the holdfast and the frond

stipitate: provided with a stalk

stolon: a creeping (mostly cylindrical) structure from which erect branches arise

stoloniferous: bearing stolon-like structures

strap-shaped: ribbon-like or girdle-like

stupose: having a tuft of matted filaments

subspherical: almost spherical

subtidal: coastal area under low water level, down to the circalittoral = lower limit of development of seagrasses

subtidal fringe: between mean and spring low tide levels; a narrow zone with some typical organisms

succulent: full of juice or sap

supralittoral: the coastal zone above high tide level

supralittoral fringe: the coastal zone between mean and spring high tide levels

sympodial: branching of an axis where the apex is continually replaced by a lateral from below (alternately left and right of the axis), resulting in a zigzag aspect

syntype: any one of two or more specimens cited in the original description when no holotype was designated or any one of two or more specimens simultaneously designated as type

tapering: gradually narrowing toward a point

taxonomy: the principles and methods for the classification of living organisms

tenacular cell: specialized cell achieving attachment with adjacent cells or filaments

tetrahedral: cells contiguously placed as at the tips of a four-sided pyramid; - crystal: pyramid-shaped crystal

tetrasporangium (-gia): cell in which four spores are formed by meiosis

tetraspore: haploid spore, formed by meiosis (therefore mostly grouped by four) on the diploid tetrasporophyte

tetrasporophyte: diploid plant in red algae originating from the diploid carpospore, in which meiosis will take place resulting in the haploid tetraspores

thallus: the relatively undifferentiated multicellular plant body of a non vascular plant (e.g. an alga)

tomentose: thickly and evenly covered with hairs

trabecular spine: a spine-like projection of cell wall material in the cell

tribuliform: inverted triangular in surface view, with rounded upper angles and a small bulge in the middle of the upper side

trichoblast: a colourless, usually (dichotomously) branched, hair-like appendage, produced near branch apices in Rhodophyta

trichotomous: dividing in three (similar) parts

trifurcate: with three forks or branches

trilobate: presenting three lobes

tristromatic: composed of three cell-layers (visible on cross section)

truncate: cut off rather abruptly at the tip

tubular: apparently a cylindrical figure and hollow

turbinate: obconical; as an inverted cone

turf algae: short, mat-forming, densely intricately seaweeds

type locality: the place where the type specimen of a taxon has been collected

type specimen: specimen after which the original description of an organism is based (remark: this does not mean that this specimen is 'typical')

undulate: being wavy, regularly curving up and down in a three-dimensional way (margin of a blade)

unilateral: along a single side of an axis

unilocular: one-chambered

uniseriate: composed of a single linear row of cells; a filament

unistratose: composed of a single layer

utricle: swollen end of siphons forming a palisade-like surface layer in *Codium* and various Udoteaceae (e.g. *Halimeda*)

vein: series of larger cells (mostly longer as compared to the neighbouring ones) forming longitudinal rows within a smaller-celled tissue

ventral: at the lower side

verticil: whorl

verticillate: in whorls; whorled

vesicular: bladder-like

whorl: structures arranged in a circle or vertical around the axis

xanthophylls: brown accessory pigments in the brown algae

zonate: with the cross walls parallel to each other; in a tetrasporangium resulting in the four tetraspores being in a series of four

zygote: diploid cell, formed after fertilisation of an egg cell

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