


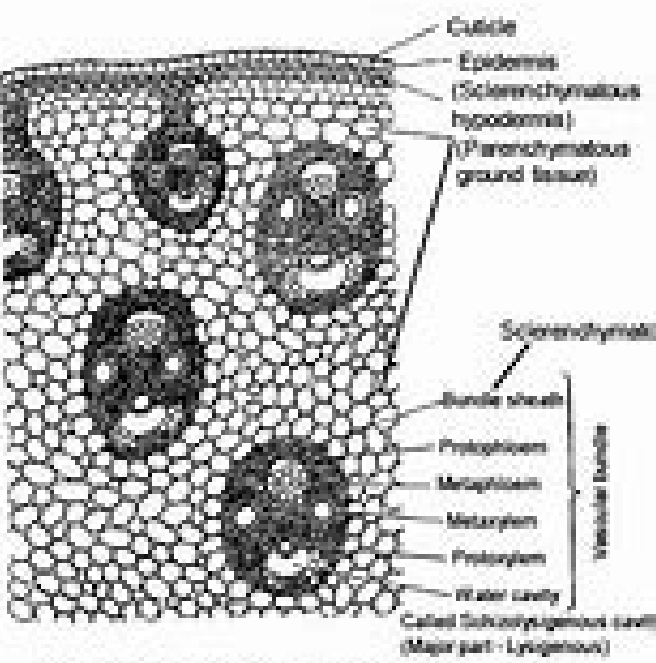
Anatomy of monocot stem pdf

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T.S. of monocot Stem (A part of cellular diagram)

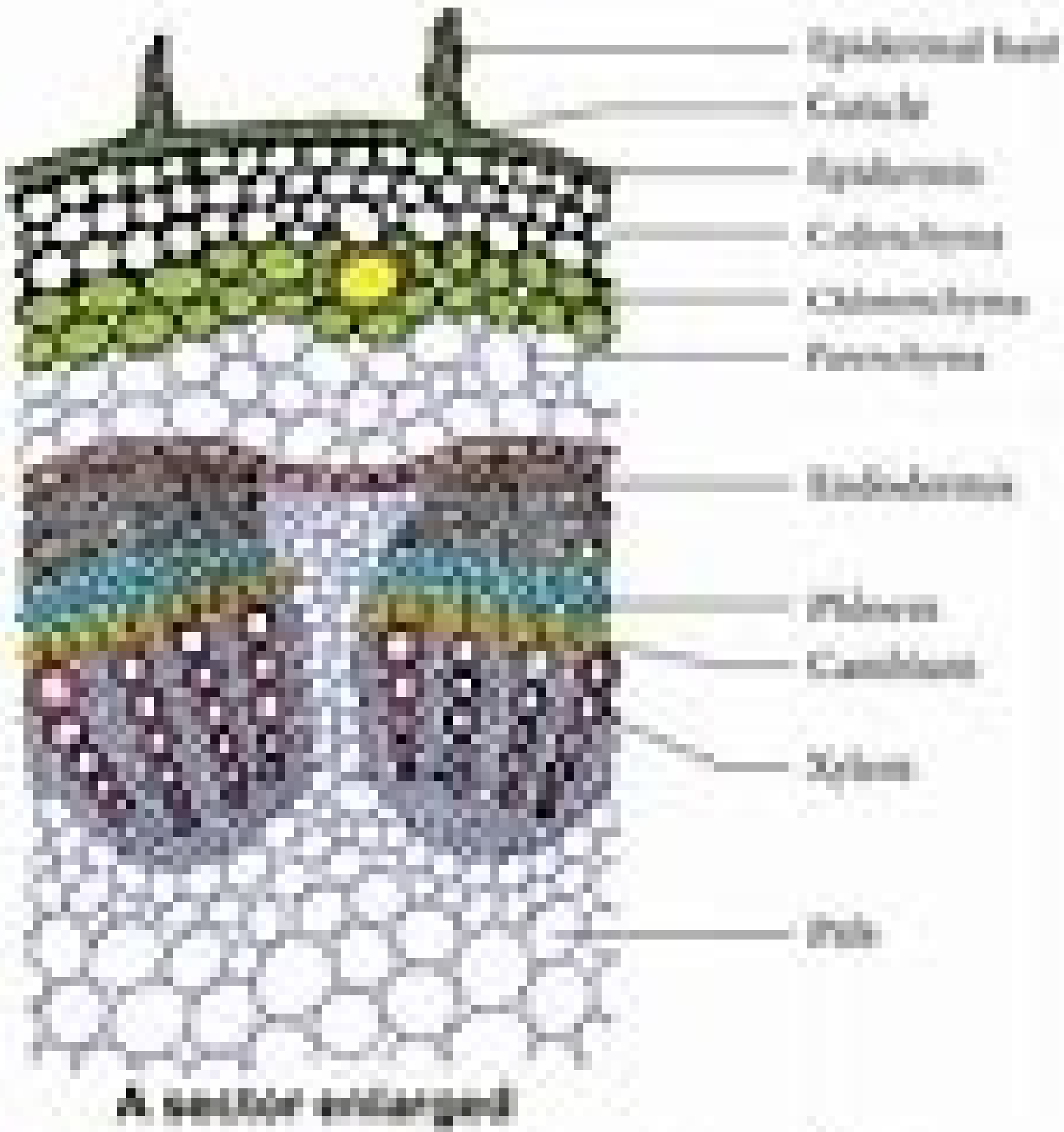
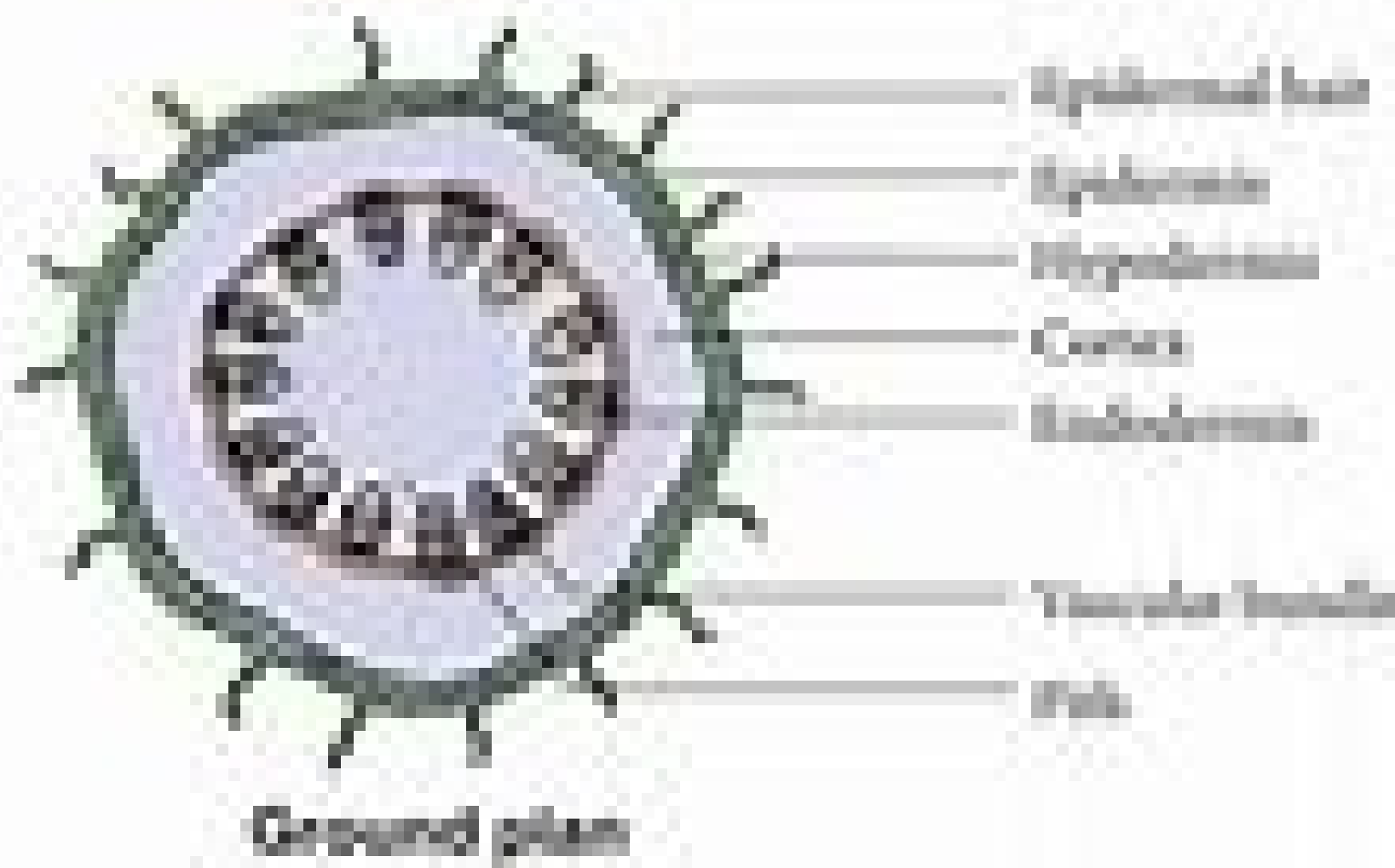
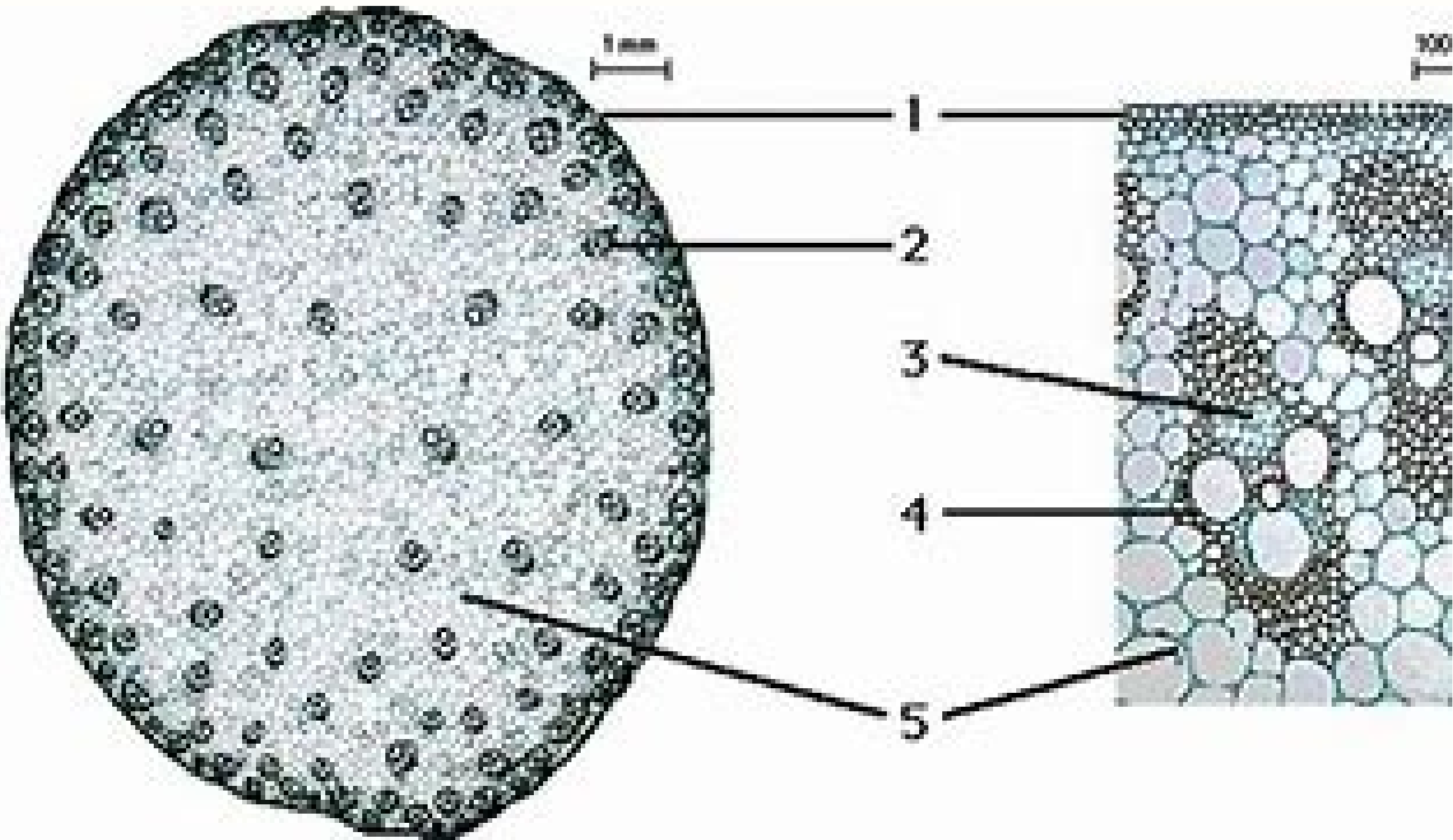
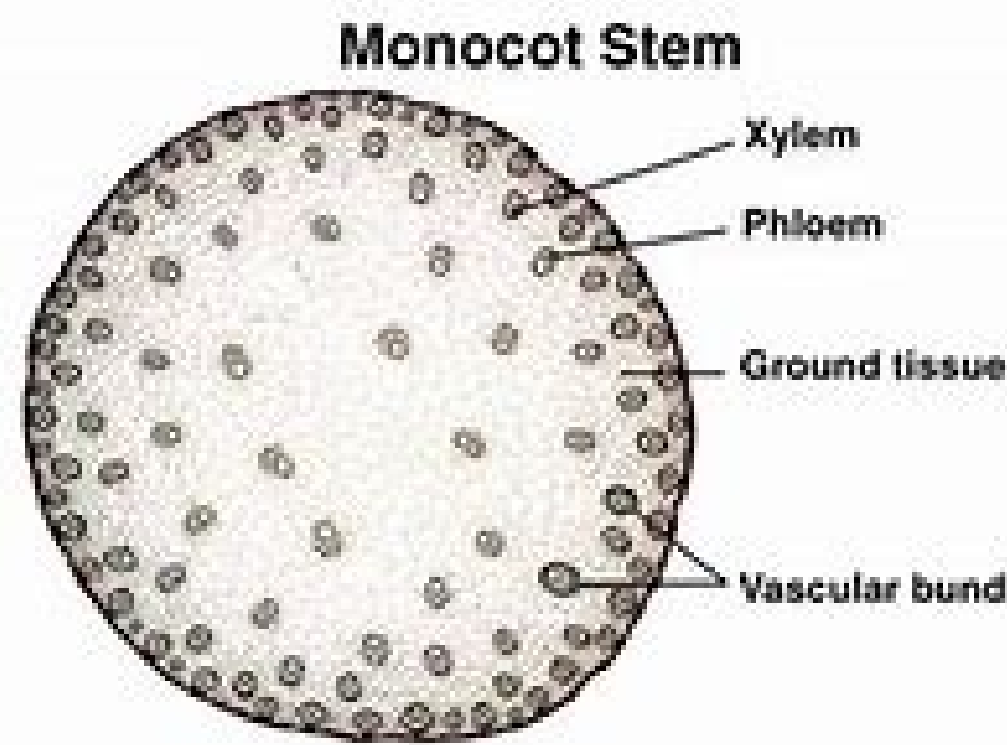


Figure 11.4 Transverse section of Dicot stem



[illegible]

has the lowest number of characters shared with Spirodela, Landoltia, Lemna and Lemna are more closely related, while Spirodela and Wolffella are more closely related, with the exception of a new genus Genus Spirodela and some changes within the family sections, most of the results are consistent with previous studies based exclusively on morphological characteristics made by meticulous botanists. Cladogram modified by Les, D.H., Crawfords, M.J., Landolt, E., Gabel, J.D. and R.T. Kimball, 2002] "Phylogeny and systematic of Lemnaceae, the family of ducks." Systematic botany 27 (2): 221-240. Look at the chemical structure of the flavonoids because of their degree of reduction, Landolt (1986) considers the two mindforms genres Wolffia and Wolffella to be the newly evolved propagations in the philosophy of this family. Wolffia has the least characters shared with the supposed ancestor Spirodela and is located farther in an evolutionary tree (cladogram). The new genus Landoltia is morphologically intermediate between Lemna and Spirodela. According to D.H. LES & D.J. Crawford (Novon 9: 530-533, 1999), it represents an isolated clade distinct from Lemna that Spirodela. DNA comparisons of all members of the lemnaeace of Les, et al. (Systemic botany 27 (2): 221-240, 2002) Indicates that all five genera represent distinct clades. With the exception of Landolt and some changes in the sections, the 38th rate in the study of Les et al. (2002) are remarkably consistent with those as morphologically distinct from Landolt. The tanning algae now placed in the Arum (Araceae) family Amorphophallus titantium Most authors agree that the tanning algae are an early offspring of the Aroid Link (Araceae) and are represented in fossil finds since late Cretaceous by the genus Limnobiophyllum. Although the latter genus is related to Pistia, the oldest fossils attributable to Pistia date back to the late Oligocene/early Miocene. Because of its morphological resemblance, Pistia stratioides was considered a close relative (cousin) of the Lemnaceae. The morphological analysis of the fossil arsenic of the paleocene Limnobiophyllum scutatum di Stockey et al. (1997) indicates that the most track wood forms a monophylitic group within the Araceae; However, more recent cladistic DNA tests have shown different results. Phylogenetic studies by G.W. Rothwell et al. (2004) and L.I. Cabrera et al. (2008) indicate that Pistia and Lemnaceae belong to distant clades, suggesting at least two independent origins of the form of water growth floating within the arum family (Araceae). Cladogram From Cabrera et al. (2008) More Amorphophallus titanium Images Therefore, Pistia cannot be considered as a morphological intermediate between duckweed and other ruminants. Maintaining Lemnaceae and Araceae as separate families would make the arum family paraphyletic, with a common ancestor but not all its descendants (i.e. duck seaweed are excluded). Their cladograms are based on sequences of the intergenic region trnL-trnf of the chloroplastic genome. This region of space is non-coding DNA between trnL and trnF locations. Poiche, © non-coding, is not in the selection phase (not highly conserved), compared to highly conserved genes coding for structural products, regulating proteins or RNA transfer. It is interesting to note that duck seaweed To the same family as plants of Arum Titanium (Amorphophallus Titanium). This remarkable plant has a one m Erect Spadix protruding from a jar-shaped spatula with a circumference of 4 m. Cabrera, L.I., Salazar, G.A., Chase, M.W., Mayo, S.J., Bogner, J., and P. DAAjvila. 2008. "The phylogenetic relationships of Aroids and Duckweeds (Araceae) infer from the coding and DNA Plastid not convincing." American Journal of Botany 95 (9): 1153-1165. Rothwell, G.W., Van Atta, M.R., Ballard Jr., H.E. and r.a. STOCKEY. 2004. "Molecular phylogenetic relationships between lemnaeaceae and araceae using chloroplast trnL-trnf intergenic spacer." Phylogenetics and Molecular Evolution 30: 378-385. Stockey, R. A., Hoffman, G.L. and G. W. Rothwell. 1997. "The fossil Monocot Limnobiophyllum Scutatum: Solving the Phylogeny of Lemnaceae." American Journal of Botany 84 (3): 355-368. Pistia Stratiotes: an aquatic member of the family Arum (Araceae) with characteristics similar to Genus Genus Spirodela. Phylogenetic studies using chloroplast DNA indicate that Pistia cannot be considered a morphological intermediate between the legs and other arms. Note the small white spaton (red arrow) surrounding the anters at the apex of a reduced spadix. 5. Controversies about the genus Landoltia Many traditional phylogenetic groupings of species within families and genera are not monophyletic and are inconsistent with modern cladistic DNA analysis. In other words, the groupings are paraphyletic or polyphalytic, and do not show all the species within a group descending from a common ancestor. Monofily is the natural evolutionary model in which all species are descended from a common ancestor. To have consistent computer-generated reviewers, monopolized cladograms, sometimes it is necessary to change the paraphyletic and polyphyletic groupings by moving species into different genera and moving Genera into different families. Many of the taxonomic revisions in the 2nd edition of Jepson Manual 2nd Edition (2012) were made to have groupings coherent. This is why Spirodela Punctata was In the genus, Landoltia and because the Lemnaceae was placed in family Araceae. The Cladogram (on the left) is from D.H. Les and D.J. Crawford (1999). It has high boot boot values and is based on molecular data (RBCL) from the DNA of the chloroplast. It clearly shows that a group consisting of 3 species of spirodela is parafniotic. This is why St. Punctata was placed in the monotypic genus Genus Landoltia. Å. Å. monofletic group: all descendants from a common ancestor in 1999, D.H. Les and D.J. Crawford proposed the new Landoltia genus containing a species L. punctata, previously puncted spirodela. This species is morphologically intermediate between Lemna and Spirodela. According to Les & Crawford, it represents a blade isolated from Lemna Spirodela. Without this change, the Spirodela genus would be Paracyletic. Les, D.H. and d.j. Crawford. "Landoltia (Lemnaceae), a new kind of ducks." Novon 9: 530-533. Morphological characteristic spirodela intermediate spirodela polyrhiza landolta punctata previously foasting punctata Lemna all the species prophyllum at the base of the frond present present but reduced number absent of roots penetrating prophyllum s. intermedia: 2 to 5 s. polyrhiza: 1 (rarely 2) all the roots no PROPHYLLUM OVERWINTERING TURITIONS S. Intermedia: None S. Polirrhiza: No distinct present: Some small picofronds resemble Turions in L. Turionifera Number of frond grain from 7 to 16 from 3 to 7 from 1 to 5 No. of roots from 7 to 21 Generally from 2 to 5 only 1 root tracheids extend to the baseline tip Only absent dorsal melistem of new fronds on one side (side on the other side). On both sides on both sides the external frond loggers do not extend above the interior rooms extend slightly above the interior rooms extend over the interior rooms. Celle of the brown pigment in the Fendi present present absent cells with crystals Raphures & Druss & DRURS Raphide only a comparison between the morphological characteristics between Landolt, Spirodela and Lemna. With so few taxonomic characteristics, these assume assume assume more important role in the distinction of genders. Spirodela punctata has an intermediate taxonomic position between Spirodela (S. intermedia & S. polirrhiza) and Lemna. A hypothetical cladogram in Les and Crawford (1999) based on the morphological data of Landolt (1986) revealed a paraphyletic grouping of Spirodela before Spirodela punctata was finally placed in the monotypic genus Landoltia. According to Professor Elias Landolt (personal communication, 2001), the creation of the new genus Landoltia is not necessary on the basis of a purely morphological point of view; However, based on DNA and enzymatic studies, the modification is justified to form coherent phylogenetic taxa. The inclusion of a fifth genus Landoltia appears necessary on the basis of an exhaustive analysis of Lemnaceae by D.H. Les, D.J. Crawford, E. Landolt, J.D. Gabel and R.T. Kimball (2002). In addition, 4,700 characters were studied, including data on morphology and anatomy, flavonoids, allozymes and DNA sequences of chloroplast genes (rbcL, matK) and introns (trnK, rpl16). The Angiosperm Phylogeny Group (APG) has proposed some significant changes in the classification of many traditional angiosperm families, including the placement of all ducks in Araceae rather than Lemnaceae. Nomenclature changes are cited in APG II (2003) and superrequested in APG III (2009). These changes are based on computer-generated evolutionary trees or cladograms. Thousands of data characters were used, including morphology, anatomy, flavonoids, allozymes and DNA sequences of genes and chloroplasted introns. The Jepson Manual Second Edition (2012) essentially follows the changes summarized in the following reference by W.T. Judd, et al. 2008. Since the genus Landoltia was proposed by D.H. Les and D.J. Cawford in 1999, several classic journals on the phylogeny of the duckling subfamily (Lemnoidea) Other aroids (Araceae) used the name Landoltia. In my opinion, La La Landoltia is justified because it is consistent with the objectives of the Jepson 2nd Edition (2012) manual based on phylogenetic studies using the plastic DNA. Judd, W.S., Campbell, C.S., Kellogg, E.A., and M. P.F. and M. Donaghue. 2008. Vegetable systematic: a phylogenetic approach (third edition). Sinauer Associates, Inc., Sunderland, Massachusetts. 611 pages Les, D.H., D.J. Crawford, E. Landolt, J.D. Gabel, and R.T. Kimball. 2002. "Phlogenesis and systematic of the Lemnaceae, the Duckweed family." Systematic botany 27 (2): 221-240. Cabrera, L.I., Salazar, G.A., Chase, M.W., Mayo, S.J., Bogner, J., and P. Davilaj. 2008. Å «Phylogenetic relationships between aroids and duck algae (Araceae) Inferred from coding and noncoding DNA Plastide. Å Å 8 am American Journal of Botany 95 (9): 1153-1165. Names published for this Lemna species punctata G.F.W. Meyer This was the original name of Meyer based on the exemplary type harvested along the Essquibo river, Guyana, South America in 1818. Unfortunately, the original specimen of the Meyer has gone lost. Punted Spirodela (G.F.W. Meyer) Thompson C.H. Thompson placed this species in a spiroding genus in 1898. Given that the exemplary like lost, he basis the new name on a specimen of the Wilkes shipment of 1938-1842, called Orange Harbor, Tierra del Fuego. According to Landolt (1986), Thompson has neutyped this species in his publication of 1898. Landoltia punctata (G.F.W. Meyer) Les & D.J. Crawford in 1999, D.H. Les and D.J. Crawford inserted this species as Landoltia based on DNA tests. Ri-Neotypification of G.F.W. Meyerå Å ° s 1818 Type exemplary of Å «Lemna punctataåå Note: it is a taxonomic complex argument that involves many articles of the international nomenclature code for algae, mushrooms and plants (Melbourne code) 2011: available online at the °m Address : Daniel B. Ward (2011) presented an argument in favor of the names Landoltia punctata and Spirodela punctata with the previous name Spirodela oligorrhiza. In In In To make sure we are referring to the same species, Ward suggested naming this "Lesser Greater Duckweed" to avoid confusing it with the larger species of Spirodela (S. polirrhiza &S. intermedia) called "Greater Duckweeds." In this article I will simply call it LG Duckweed instead of Lesser Greater Duckweed. Ward's proposal provides for the re-neotyping of G.F.W.Meyer's 1818 type called Lemna punctata which apparently has been lost. Ward has also proposed as a new type a different species that we now know as the intermediate spirodela. Ward, D.B. 2011. "Oligorrhizal spur (Lemnaceae) is the correct name for the Lesser Greater Duckweed." J. Bot. Res. Inst. Texas 5 (1): 197-203. Wang LG Duckweed is the species we have called Spirodela (Landoltia) punctata in the current taxonomic literature. If the original name (basionym) punctated Lemna G.F.W. Meyer is re-neotyped by Ward using the native South American species Spirodela intermediate W. Koch (1932), then the names Spirodela oligorriza (Kurz) Hegelmaier, a name published by Hegelmaier in 1868, Hegelmeier apparently never saw the South American specimens discussed above, so his name is probably based on the real LG Duckweed. The 2011 neotyping of the Ward will make the Landoltia a synonym of Spirodela and is no longer available for the planned LG Imperia. Restoring the separate generic state for LG Duckweed now known as Spirodela (Kurz) Hegelm. will require the creation of a new genus name. 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