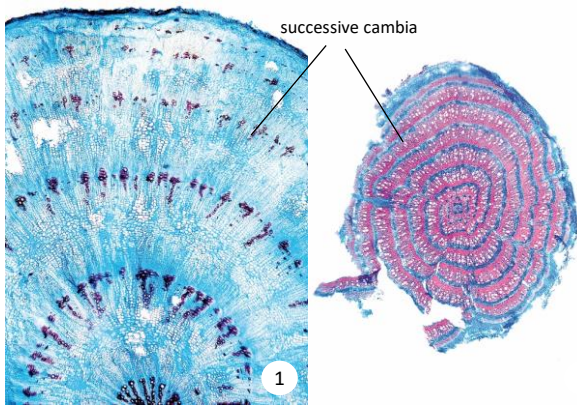


Individual anatomical features and their ecological context

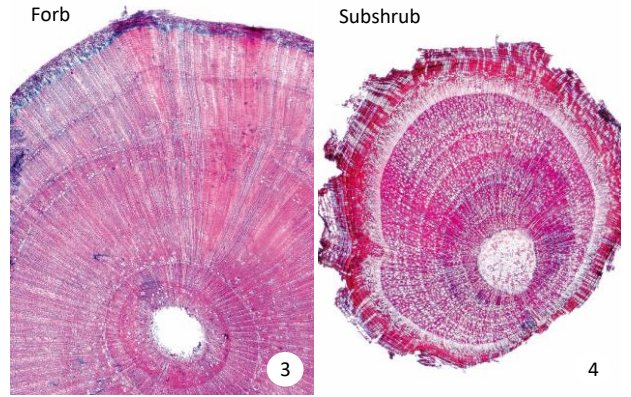
Plant age

No countable rings



(1) *Beta vulgaris* subsp. *maritima* (L.) Arcang. Amaranthaceae
 (2) *Chenopodium chenopodioides* (L.) Aellen Amaranthaceae

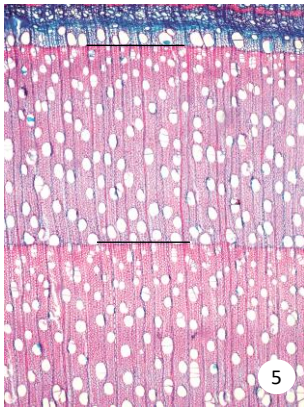
Countable rings



(3) *Lythrum salicaria* L. Lythraceae
 (4) *Sibbaldia procumbens* L. Rosaceae

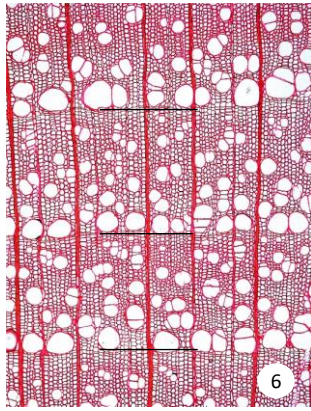
The structure of the conductive system

Diffuse porosity



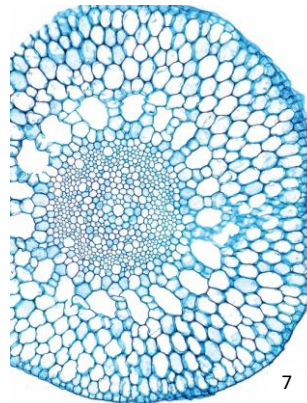
(5) *Salix purpurea* L. Salicaceae

Semi-ring porosity



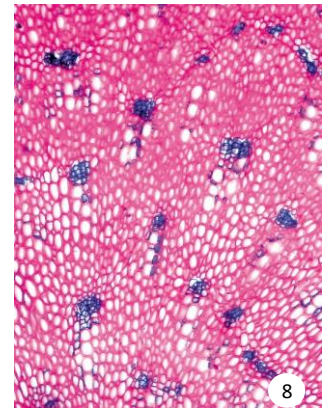
(6) *Frangula alnus* Mill. Rhamnaceae

Vessels absent



(7) *Ceratophyllum demersum* L. Ceratophyllaceae

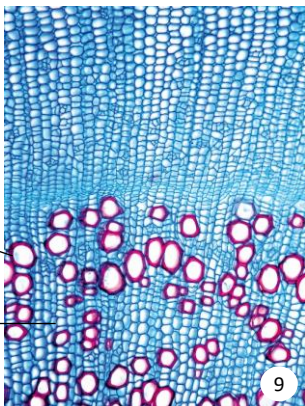
Vessels in long radial multiples



(8) *Salicornia europaea* L. Amaranthaceae

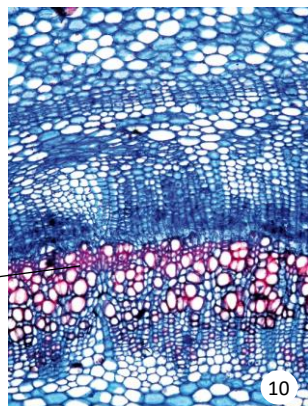
The structure of stabilization system and lignification

Fibers absent



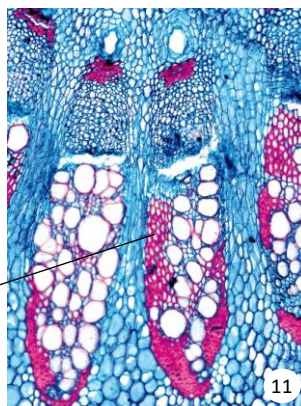
(9) *Plantago maritima* L. Plantaginaceae

Thin- to thick walled libriform fibers



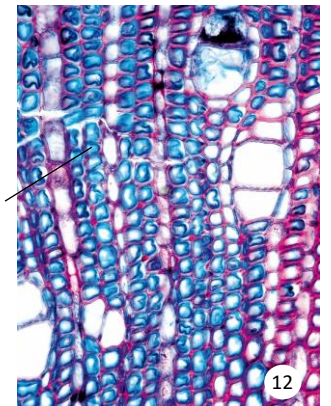
(10) *Geum rivale* L. Rosaceae

Thick-walled fibers



(11) *Petasites hybridus* (L.) G. Gaertn. et al. Asteraceae

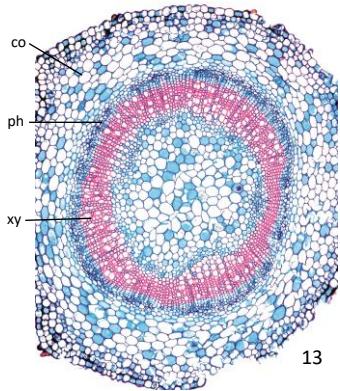
Gelatinous fibers



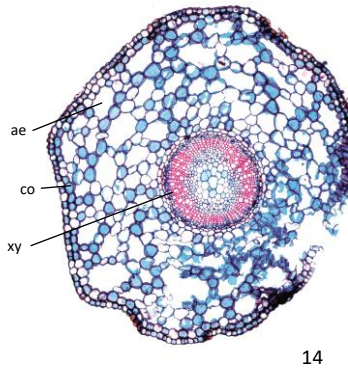
(12) *Lythrum virgatum* L. Lythraceae

The structure of storage system

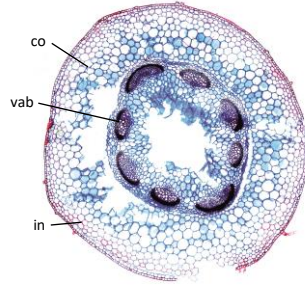
Large unligified cortex zone



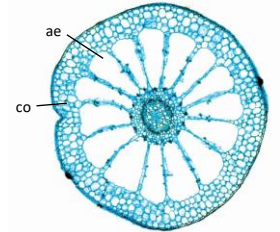
(13) *Viola stagnina* Kit. ex Schult.
Violaceae



(14) *Veronica anagallis-aquatica* L.
Plantaginaceae

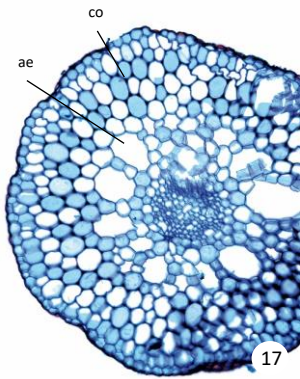


(15) *Stellaria nemorum* L.
Caryophyllaceae



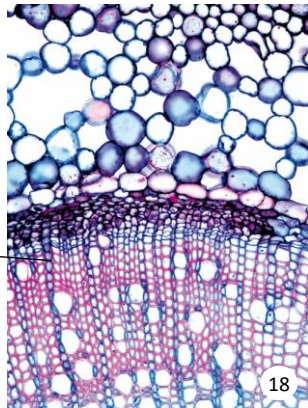
(16) *Myriophyllum spicatum* L.
Haloragaceae

Rays absent



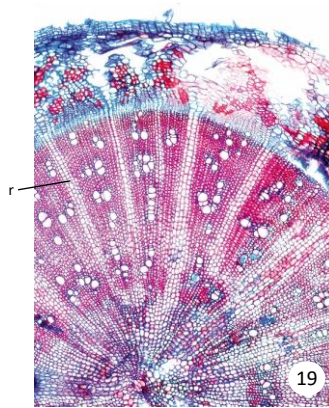
(17) *Ceratophyllum submersum* L.
Ceratophyllaceae

Rays uniseriate

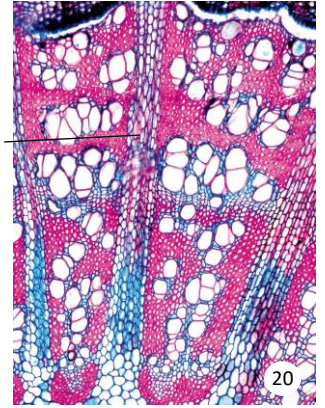


(18) *Mentha aquatica* L.
Lamiaceae

Rays multiseriate



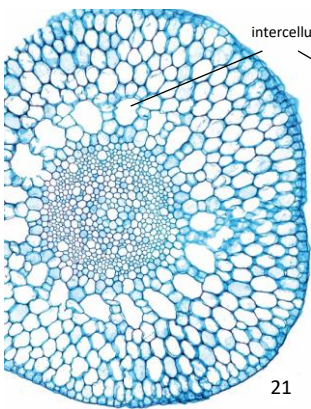
(19) *Rumex maritimus* L.
Polygonaceae



(20) *Cirsium heterophyllum* (L.) Hill
Asteraceae

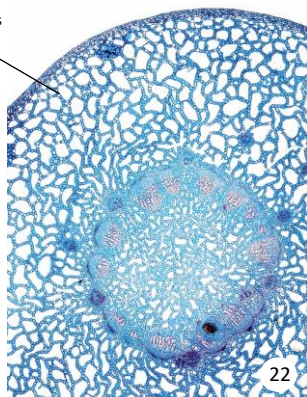
Aerenchyma (air spaces)

Intercellulars circular



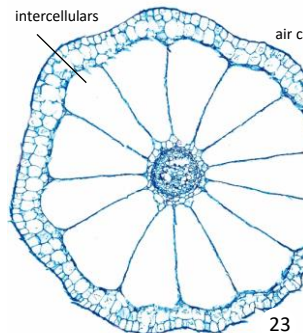
(21) *Ceratophyllum demersum* L.
Ceratophyllaceae

Intercellulars honeycomb



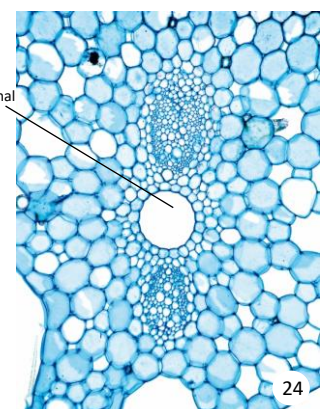
(22) *Menyanthes trifoliata* L.
Menyanthaceae

Intercellulars large, radially extended



(23) *Elatine alsinastrum* L.
Elatinaceae

Air conducting canals



(24) *Nymphaea alba* (L.).
Nymphaeaceae

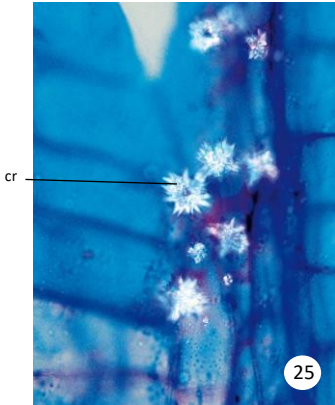
Crystals

Druses

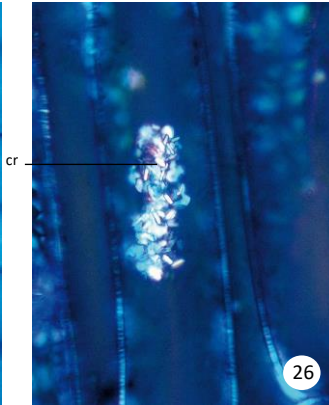
Crystal sand and short prismatic crystals

Spiculate hairs

Raphids



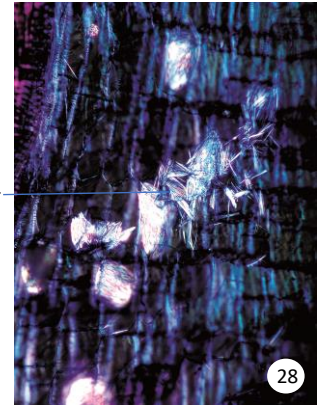
(25) *Myriophyllum alterniflorum* DC.
Haloragaceae



(26) *Petasites hybridus* (L.) G. Gaertn. Et al.
Asteraceae



(27) *Nymphoides peltata* (S. G. Gmelin) O Kuntze
Menyanthaceae



(28) *Impatiens glandulifera* Royle
Balsaminaceae

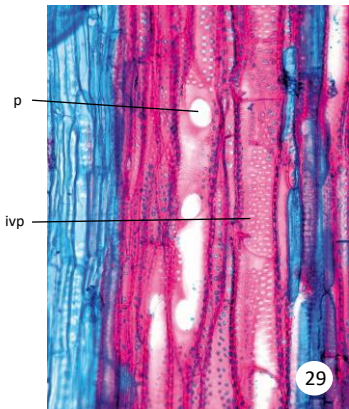
Intervessel pits and vessel perforation

Round intervessel pits and simple perforation plates

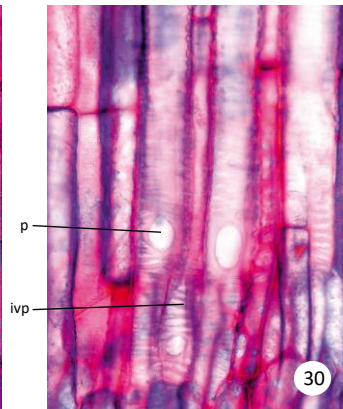
Round and scalariform intervessel pits and simple perforation plates

Scalariform intervessel pits and scalariform perforation plates

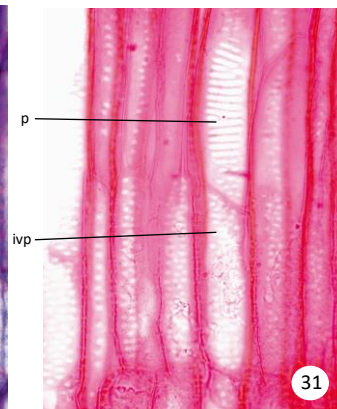
Round and horizontally enlarged intervessel pits and aberrant scalariform perforation plates



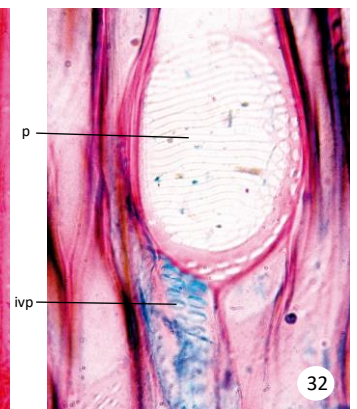
(29) *Gratiola officinalis* L.
Plantaginaceae



(30) *Epilobium alsinifolium* Vill.
Onagraceae



(31) *Andromeda polifolia* L.
Ericaceae



(32) *Bidens frondosus* L.
Asteraceae

List of abbreviations

ae	aerenchym
co	cortex
cr	crystals
en	endodermis
f	fiber
ge	gelatinous fiber
in	intercellulars
ivp	intervessel pit
p	perforation
pa	parenchym
ph	phloem
r	ray
vab	vascular bundles
xy	xylem