

# CUSTOM MICROSCOPE SLIDE SET

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## BOTANY - ANGIOSPERM MICROSCOPE SLIDES

### Cytology and Tissues - Cell Nucleus, Cell Division, Chromosomes

CAT.#	DESCRIPTION	QTY
As111c	Epidermal cells of <i>Allium cepa</i> (onion), flat mount shows typical plant cells with nuclei, cytoplasm and cell walls	
As1125d	Epidermal cells of <i>Allium cepa</i> , w.m. of bulb scale epidermis, unstained preparation special mounted for phase contrast observation	
As1127s	Epidermal cells of <i>Allium cepa</i> , plasmolysis, w.m. turgid piece and plasmolized piece of onion epidermis for comparison	
As114d	Mitosis, l.s. from <i>Allium</i> root tips showing all stages of plant mitosis carefully stained with iron-hematoxyline after Heidenhain	
As1141d	Mitosis, l.s. from <i>Allium</i> root tips showing all stages of plant mitosis carefully stained with a quadruple stain	
As1142e	Mitosis, l.s. from <i>Allium</i> root tips showing all stages of plant mitosis, specially stained with fuchsin & fast green	
As115d	Mitosis, t.s. from <i>Allium</i> root tips showing all stages of plant mitosis in polar view	
As1155g	Mitosis, squash preparation from <i>Allium</i> root tip, shows intact mitotic stages, Feulgen stain *	
As1157f	Mitosis, l.s. from <i>Allium</i> root tips showing all stages of plant mitosis stained by Feulgen stain *	
As1158g	Mitosis, squash preparation from <i>Allium</i> root tip, shows intact mitotic stages, orceine stained	
As1159h	Mitosis, squash preparation from <i>Allium</i> root tip, treated with colchicine for metaphase stages, orceine stained*	
As116d	Mitosis, l.s. from <i>Vicia faba</i> (bean) root tips showing all mitotic stages	
As1165g	Mitosis, squash preparation from <i>Vicia faba</i> root tips, showing intact mitotic stages, Feulgen stain *	
As1166e	Mitosis, l.s. from <i>Hyacinthus</i> root tips showing all stages of plant mitosis carefully stained with a quadruple stain. Specially large chromosomes, for demonstration of plant mitosis	
As1169g	DNA and RNA, thin l.s. from <i>Allium</i> root tips, specially fixed and stained with methylgreen and pyronine to show DNA and RNA in different colours *	
As117f	Meiosis, t.s. of <i>Lilium</i> anthers showing different stages of meiotic divisions	

### Cell Organelles

CAT.#	DESCRIPTION	QTY
As112g	Epidermal cells of <i>Allium cepa</i> , specially fixed and stained to show the mitochondria *	
As119g	Mitochondria, thin l.s. of <i>Allium</i> root tips specially fixed and stained to show the mitochondria clearly	
As148d	Chloroplasts, w.m. of leaf of <i>Elodea</i> or <i>Spinacea</i> showing detail of large chloroplasts	
As1481d	Chloroplasts, in sec. of <i>Tradescantia</i> shoot	
As1485c	Chromoplasts, w.m. of petal of <i>Viola</i> (violet)	
As1486c	Chromoplasts, t.s. of root of <i>Daucus carota</i> (carrot)	
As1487c	Chromoplasts, in w.m. of piece of petal from <i>Tropaeolum</i>	
As1488e	Plasmodesmata, in t.s. of palm seed ( <i>Phytelephas</i> )	

### Inclusions: Reserve and storage substances

CAT.#	DESCRIPTION	QTY
As131c	Aleurone grains, sec. of <i>Ricinus</i> endosperm	
As6611d	Aleurone grains, t.s. of seed and cotyledons of <i>Evonymus</i>	
As132c	Starch grains, sec. of tuber of <i>Solanum tuberosum</i> (potato)	
As1321c	Starch grains, t.s. cotyledons of <i>Vicia faba</i> (bean)	
As1322c	Starch grains, t.s. of semen (grain) of <i>Avena</i> (oat)	
As1323b	Starch grains, smear from <i>Euphorbia</i> (spurge)	
As1324b	Starch grains, different kinds of mixed species w.m.	

As1325b	Corroded starch grains, w.m. from potato
As133d	Fat, t.s. of endosperm of <i>Corylus</i> (hazel) stained for fat
As146d	Reserve cellulose, t.s. seed of <i>Phoenix</i> (date)

### Inclusions: Crystals and metabolic products

CAT.#	DESCRIPTION	QTY
As135d	Inulin crystals, t.s. of tuber of <i>Dahlia</i>	
As136d	Acid tannic, t.s. bark of <i>Rosa</i>	
As137b	Calcium oxalate crystals in w.m. of dry <i>Allium</i> scale	
As138c	Raphides, t.s. of <i>Impatiens</i> leaf	
As1381c	Raphides, t.s. of <i>Oxalis</i> leaf	
As1382d	Raphid cells with growing raphids, l.s. root tips of <i>Hyacinthus</i>	
As1383c	Crystal sand, t.s. of <i>Solanum tuberosum</i> (potato) leaf	
As1384d	Clustered crystals, t.s. stem of <i>Opuntia</i>	
As459c	Cystoliths, t.s. leaf of <i>Ficus elastica</i> , India rubber plant	

### Meristematic Tissues

CAT.#	DESCRIPTION	QTY
As121e	Stem apex and meristematic tissue of <i>Elodea</i> , l.s. showing growing zone and leaf origin	
As1215f	Stem apex and meristematic tissue of <i>Elodea</i> , median l.s. showing growing point *	
As122d	Stem apex and meristematic tissue of <i>Asparagus</i> l.s.	
As123e	Stem apex and meristematic tissue of <i>Hippuris</i> l.s.	
As124e	Stem apex and meristematic tissue of <i>Coleus</i> l.s.	
As1145e	<i>Allium cepa</i> , median l.s. of root tip to show the meristematic tissue *	
As1146f	<i>Hyacinthus</i> , median l.s. of root tip showing meristematic tissue and growing point *	

### Supporting Tissues

CAT.#	DESCRIPTION	QTY
As140c	Wood cells, macerated and w.m.	
As141e	Thylosis, t.s. and l.s. of <i>Robinia</i> (black locust) wood	
As1431c	Sclerids, t.s. of semen, (seed) of <i>Phaseolus</i> (bean) with palisade sclerids	
As145c	Angular collenchyma, t.s. stem of <i>Lamium</i> or <i>Salvia</i>	
As1451c	Lamellar collenchyma, t.s. stem of <i>Sambucus</i>	
As1452c	Lacunar collenchyma, t.s. stem of <i>Petasites</i> or <i>Lactuca</i>	
As147b	Sclerenchyma fibres, isolated and w.m.	
As1471d	Sclerenchyma fibres of phloem, t.s. and l.s. of stem of <i>Linum</i> (flax)	
As1472d	Sclerenchyma fibres of xylem, t.s. and l.s. of stem of <i>Hypericum</i>	
As150b	Bast cells from coconut, isolated and w.m.	
As1505b	Bast cells from <i>Cinchona</i> , isolated and w.m.	

### Conducting Tissues

CAT.#	DESCRIPTION	QTY
As151d	Annular and spiral vessels, l.s.	
As1525d	Annular and spiral vessels, isolated and w.m.	
As153d	Scalariform vessels, l.s.	
As1535d	Scalariform vessels, isolated and w.m.	
As154d	Pitted vessels, l.s.	
As1545d	Pitted vessels, isolated and w.m.	
As1547d	Tracheids with bordered pits, wood of <i>Pinus</i> l.s. stained with thionine	
As155d	Reticulate vessels, l.s.	
As1554d	Reticulate, annular, and spiral vessels, isolated and w.m.	
As160d	Sieve tubes, sieve plates and vessels, l.s. of stem of <i>Cucurbita pepo</i>	
As161c	Sieve plates in top view, t.s. of <i>Cucurbita</i> stem showing large structures	
As162d	Callose on sieve plates of <i>Vitis vinifera</i> (grape) during the winter	

As142c	Lactiferous vessels, l.s. stem of Euphorbia (spurge)
As1423c	Lactiferous vessels, tangential l.s. of Taraxacum root
As489c	Lactiferous vessels, t.s. of Asclepias, milkweed
As493d	Netted venation, portion of dicot leaf w.m. showing venation only

### Epidermal Tissues

CAT.#	DESCRIPTION	QTY
As139b	Cork cells, t.s. bark of Quercus suber (oak)	
As1392c	Cork cambium development, t.s. young stem of Sambucus (elderberry)	
As360c	Lenticells, t.s. stem of Sambucus (elderberry)	
As1344c	Glandular hairs, t.s. petiole of Primula	
As149b	Branched leaf hairs, isolated and w.m. from Verbascum (mullein)	
As1491b	Scale-like stellate hairs, isolated and w.m. from Elaeagnus (olive tree)	
As1492c	Scale-like stellate hairs, in t.s. of Elaeagnus leaf	
As1493c	Hooked hairs, t.s. of leaf of Humulus (hop)	
As1494c	Absorbent hairs, w.m. of epidermis from Tillandsia	
As1495d	Absorbent hairs, t.s. of leaf from Tillandsia	
As1496b	Seed hairs, w.m. from Gossypium (cotton)	
As621d	Viola, violet, t.s. of petal with hairs	

### Special Cells and Tissues

CAT.#	DESCRIPTION	QTY
As134c	Lysigenous oil glands, t.s. rind of Citrus fruit	
As1341c	Schizogenous oil glands, t.s. leaf of Hypericum	
As4566c	Leaf with oil sacs, t.s. Lavandula, lavender	
As1343c	Glandular cells, t.s. leaf of Thymus	
As143d	Stone cells, t.s. fruit of Pyrus communis (pear)	
As1432d	Sclerids, t.s. of leaf of Camellia with stellate sclerids	
As144b	Parenchyme cells, t.s. of marrow of Sambucus niger (elderberry)	
As1435d	Aerial tissue, t.s. leaf of Canna indica	
As314c	Juncus, bulrush, stem with internal stellate cells t.s.	
As583d	Nectary with glands, Fritillaria, t.s.	

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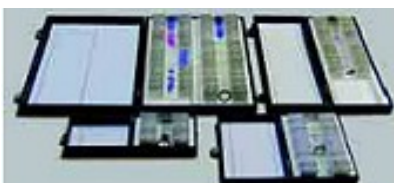
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