

Angiospermae V. Leaves

15 Microscope Slides

1(d). Elodea, l.s. of stem tip showing apical meristem and origin of leaves 2(d). Leaves, monocot and dicot, Zea and Ranunculus, t.s. 3(c). Syringa, lilac, t.s. of typical dicot leaf 4(c). Iris, typical isobilateral leaf t.s. 5(c). Eucalyptus, a bifacial foliage leaf with schizogenous oil glands t.s. 6(d). Fagus, beech, t.s. of sun and shade leaves on one slide 7(c). Calluna, ling, t.s. of rolled leaf showing sunken stomata 8(c). Nerium oleander, t.s. of leaf showing sunken stomatal pits lined with protective hairs 9(c). Ficus elastica, rubber plant, t.s. of leaf showing cystoliths 10(c). Elodea, t.s. of leaf showing the simple structure of an aquatic leaf 11(c). Tulipa, tulip, epidermis w.m. showing stomata 12(d). Aesculus, t.s. of leaf bud with squama and embedded folded leaves 13(d). Drosera, sundew, w.m. of leaf with glandular hairs 14(d). Nepenthes, t.s. of pitcher with glands 15(d). Utricularia, bladderwort, w.m. of bladder.

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Angiospermae VI. Flowers

15 preparations with accompanying guide.

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Angiospermae VII. Fruits and Seeds

15 preparations with accompanying guide.

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CYTOLOGY AND EMBRYOLOGY

The Animal Cell

12 Microscope Slides

1(c). Squamous epithelium, isolated cells from human mouth 2(d). Striated muscle l.s. showing nuclei, striations 3(d). Compact bone and hyaline cartilage t.s., two sections for comparison 4(e). Nerve fibres isolated, fixed and stained by osmic acid to show myelin sheaths and Ranvier's nodes 5(d). Liver of Salamandra t.s., simple animal cells 6(f). Kidney of mouse, t.s. vital stained to demonstrate storage 7(d). Ovary of cat, t.s. showing primary, secondary, and Graafian follicles 8(d). Testis of frog, t.s. showing spermatogenesis 9(e). Salamandra larva, t.s. of skin and other organs selected to show cell division (mitosis) 10(f). Uteri of Ascaris megalocephala, t.s. stained to show meiosis with chromosomes and nuclear spindles 11(f). Salivary gland of Chironomus larva. Giant chromosomes showing large chromomeres. Stained for DNA after Feulgen 12(e). Ova from Psammechinus (sea urchin). Unfertilized ova, fertilized ova, early cleavage stages.

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Plant Cell

12 Microscope Slides

1(c). Epidermis of Allium (onion), w.m. showing simple plant cells with cell walls, nuclei and cytoplasm 2(d). Root tips of Allium cepa l.s. showing cell division (mitosis) in all stages 3(e). Pollen mother cells of Lilium. Prophase of first maturation division (meiosis) 4(f). Pollen mother cells of Lilium. Metaphase and anaphase of first maturation division 5(c). Wood of Tilia macerated and w.m. 6(d). Fruit of Pyrus (pear) t.s. showing stone cells 7(c). Tuber of Solanum (potato) t.s. shows cork and starch grains 8(d). Cucurbita pepo (pumpkin) l.s. of stem showing vascular bundles with sieve tubes, spiral and annular vessels 9(c). Ricinus endosperm t.s. showing aleurone grains 10(d). Anthers of Lilium (lily), t.s. pollen sacs and pollen grains 11(d). Ovary of Lilium (lily), t.s. arrangement of ovules and embryo sac 12(e). Spirogyra showing conjugation stages and zygotes.

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Set of Genetic Slides

25 Microscope Slides

1(d). Allium, root tips, l.s. showing all stages of mitosis 2(e). Eschscholtzia, stigma, w.m. showing penetrating pollen 3(e). Lilium, microspore mother cells, first division, leptotene to zygotene 4(e). Lilium, first division, diakinesis to telophase 5(f). Lilium, second division, interkinesis to tetrad stage 6(f). Polytrichum, moss, archegonium, w.m. 7(f). Polytrichum, moss, archegonium, l.s. 8(e). Spirogyra scalariform conjugation showing zygotes following conjugation 9(d). Sea urchin, developing of eggs, w.m. of most stages up to pluteus 10(f). Giant chromosomes from salivary gland of Chironomus, squash preparation stained for chromomeres 11(f). Giant chromosomes, section 12(e). Ascaris, fertilisation of eggs, t.s. 13(f). Ascaris, male and female pronuclei, t.s. 14(f). Ascaris, meiosis and early cleavage, t.s. 15(e). Testis of crayfish, t.s. showing meiosis 16(d). Testis of mouse, t.s. showing spermatogenesis 17(d). Ovary of rabbit, l.s. showing follicles in various stages 18(f). Embryology of fish, l.s. of embryo showing animal mitosis 19(h). Chromosomes, human, female, of culture of peripheral blood 20(i). Chromosomes, human, male, of culture of peripheral blood 21(f). Drosophila genetics, adult wild type, w.m. 22(f). Drosophila genetics, "barr eye" mutant, w.m. 23(f). Drosophila genetics, "brown eye" mutant, w.m. 24(f). Drosophila genetics, "vestigial wing" mutant, w.m. 25(f). Drosophila genetics, "white eye" mutant, w.m.

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Sea Urchin Embryology (Psammechinus miliaris)

12 preparations with accompanying guide.

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Frog Embryology (Rana)

10 preparations with accompanying guide.

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Chicken Embryology (Gallus domesticus)

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