

# PREPARED MICROSCOPE SLIDES

Various slides are available only in small number or have a long delivery period, as their material is either rare or causes unusual difficulties in processing. This applies particularly to the slides marked with an asterisk \* for which we cannot guarantee delivery.

## SCHOOL BIOLOGY

- 4401d ..... Simple animal cells in sec. of salamander liver
- 4402d ..... Mitosis, l.s. from Allium root tips showing all stages of mitosis
- 4403c ..... Ranunculus, buttercup, t.s. of a typical dicot root
- 4404e ..... Monocot and dicot stems, two t.s. for comparison
- 4405c ..... Syringa, lilac, t.s. of a typical mesophytic dicot leaf
- 4406c ..... Columnar epithelium, t.s of blind gut from rabbit
- 4407e ..... Bone and hyaline cartilage, t.s.
- 4408d ..... Striated muscles of mammal, l.s.
- 4409d ..... Smooth muscles of mammal, l.s. and t.s.
- 4410c ..... Lung of cat, t.s.
- 4411c ..... Human blood smear
- 4412d ..... Human body skin, l.s.
- 4413f ..... Young mouse, sag. s. of entire specimen for all structures
- 4431e ..... Hydra, fresh water polyp, t.s. with ectoderm and entoderm
- 4432d ..... Carabus, ground beetle, gizzard
- 4433c ..... Salivary gland of cat, t.s.
- 4434c ..... Esophagus of cat, t.s.
- 4435d ..... Fundic stomach of cat, t.s.
- 4436c ..... Small intestine of cat, t.s. routine stained
- 4437f ..... Small intestine of cat, t.s. blood vessels injected
- 4438d ..... Appendix of human, t.s.
- 4439c ..... Large intestine of cat, t.s.
- 4440c ..... Liver of pig, t.s.
- 4441d ..... Malpighian tubules of insect, t.s.
- 4442c ..... Primordial kidney (mesonephros) of frog, t.s.
- 4443c ..... Hind-kidney (metanephros) of rabbit, t.s.
- 4444d ..... Kidney of mouse with pelvis, l.s.
- 4445f ..... Kidney of mouse, t.s. injected with trypane blue (storage)
- 4451e ..... Paramecium, silvered to show the neuroformative system
- 4452d ..... Lumbricus, earthworm, t.s. with ventral nerve cord
- 4453e ..... Insect brain, frontal l.s.
- 4454e ..... Planaria, sec. through ocelli
- 4455f ..... Haliotis, marine snail, pinhole camera eye l.s.
- 4456e ..... Helix, snail, eye l.s. lens, cornea, pigmented and visual cells
- 4457e ..... Alloteuthis, cuttlefish, camera eye l.s.
- 4458e ..... Compound eye of insect, l.s.
- 4459e ..... Young rat, head with eyes t.s. for general study
- 4460d ..... Retina of cat, t.s. for finer detail of rods and cones
- 4461e ..... Internal ear (cochlea) from guinea pig, l.s.
- 4462e ..... Taste buds from tongue of rabbit, t.s.
- 4463e ..... Peripheral nerve fibres of osmic acid fixed material showing Ranvier's nodes and medullary sheaths
- 4464c ..... Spinal cord of cat t.s. showing large motor nerve cells
- 4465c ..... Cerebellum of cat, t.s. routine stained
- 4466f ..... Cerebrum of cat, t.s. silvered to show the pyramid cells
- 4471d ..... Ovary of cat, with follicles and corpus luteum t.s.
- 4472d ..... Testis of mouse, t.s. showing Leydig's cells
- 4473d ..... Adrenal (suprarenal) gland of cat, t.s. cortex and medulla
- 4474d ..... Pancreas of cat, t.s. showing islets of Langerhans
- 4475f ..... Thyroid gland showing normal function t.s.
- 4476f ..... Thyroid gland showing over-activity of the gland t.s.

- 4477f ..... Hypophysis (pituitary body) sagittal l.s. with adeno- and neurohypophysis
- 4481g ..... DNA and RNA stained in different colours, l.s. onion root tips
- 4482e ..... Lilium, young anthers, meiosis, early prophase stage, t.s.
- 4483e ..... Lilium, young anthers, meiosis, diplotene stage, t.s.
- 4484d ..... Lilium, ovary with embryosac t.s.
- 4485d ..... Capsella bursa pastoris, l.s. of embryos
- 4486h ..... Human chromosomes, spread in the metaphase stage, w.m.
- 4487g ..... Lamp brush chromosomes
- 4488e ..... Hydra with testis t.s., sexual reproduction
- 4489e ..... Hydra with ovaries t.s., sexual reproduction
- 4490f ..... Tapeworm (Taenia), mature proglottid w.m.
- 4491f ..... Ascaris embryology, sec. of uteri showing maturation of ova
- 4492e ..... Cockchafer (Melolontha), ovaries t.s.
- 4493d ..... Frog (Rana), testis t.s. showing spermatogenesis
- 4494f ..... Frog (Rana) embryology: four cell stage t.s.
- 4495f ..... Frog (Rana) embryology: morula stage l.s.
- 4496f ..... Frog (Rana) embryology: neurula stage t.s.
- 4497f ..... Chicken (Gallus) embryology: 24 hour t.s.
- 4498f ..... Chicken (Gallus) embryology: 72 hour t.s.
- 4499d ..... Mouse, uterus containing embryo t.s.
- 501e ..... Amoeba proteus, w.m. showing nucleus and pseudopodia
- 502e ..... Hydra, w.m. extended specimen to show foot, body, mouth, and tentacles
- 503c ..... Lumbricus, earthworm, typical t.s. back of clitellum showing muscular wall, intestine, typhlosole, nephridia etc.
- 504c ..... Daphnia and Cyclops, small crustaceans from fresh water
- 505d ..... Musca domestica, house fly, head and mouth parts (proboscis) w.m.
- 506b ..... Musca domestica, leg with clinging pads (pulvilli)
- 507c ..... Apis mellifica, honey bee, anterior and posterior wing
- 508c ..... Squamous epithelium, isolated cells from human mouth
- 509d ..... Striated muscle, l.s. showing nuclei and striations
- 510d ..... Compact bone, t.s. special stained for cells, lamellae, and canaliculi
- 511d ..... Human scalp, vertical section showing l.s. of hair follicles, sebaceous glands, epidermis
- 512c ..... Human blood smear, stained for red and white corpuscles
- 513d ..... Bacteria from mouth, smear Gram stained showing bacilli, cocci, spirilli, spirochaetes
- 514c ..... Diatoms, strewn slide of mixed species
- 515c ..... Spirogyra, vegetative filaments with spiral chloroplasts
- 516c ..... Mucor or Rhizopus, mold, w.m. of mycelium and sporangia
- 517c ..... Moss stem with leaves w.m.
- 518c ..... Ranunculus, buttercup, typical dicot root t.s., central stele
- 519c ..... Zea mays, corn, monocot stem with scattered bundles t.s.
- 520c ..... Helianthus, sunflower, typical herbaceous dicot stem t.s.
- 521c ..... Syringa, lilac, leaf t.s. showing epidermis, palisade parenchyma, spongy parenchyma, vascular bundle
- 522d ..... Lilium, lily, anthers with pollen grains and pollen sacs t.s.
- 523d ..... Lilium, ovary t.s. showing arrangement of ovules
- 524c ..... Allium cepa, onion, w.m. of epidermis shows simple plant cells with cell walls, nuclei, and cytoplasm
- 525d ..... Allium cepa, l.s. of root tips showing cell divisions (mitosis) in all stages, carefully stained
- 601d ..... Paramaecium, nuclei stained
- 602c ..... Euglena, a common flagellate with eyespot
- 603c ..... Sycon, a marine sponge, t.s. of body
- 604e ..... Dicrocoelium lanceolatum, sheep liver fluke, w.m.
- 605c ..... Taenia saginata, tapeworm, proglottids of various ages t.s.
- 606d ..... Trichinella spiralis, l.s. of skeletal muscle showing encysted lar vae
- 607d ..... Ascaris, roundworm, t.s. of female in region of gonads
- 608b ..... Araneus, spider, leg with comb w.m.
- 609d ..... Araneus, spider, spinneret w.m.
- 610d ..... Apis mellifica, honey bee, mouth parts of worker w.m.
- 611b ..... Apis mellifica, hind leg of worker with pollen basket w.m.
- 612e ..... Periplaneta, cockroach, chewing mouth parts w.m.
- 613b ..... Trachea from insect w.m.
- 614b ..... Spiracle from insect w.m.
- 615d ..... Apis mellifica, sting and poison sac w.m.
- 616b ..... Pieris, butterfly, portion of wing with scales w.m.
- 617d ..... Asterias rubens, starfish, arm (ray) t.s. showing tube feet, digestive gland, ampullae
- 618e ..... Fibrous connective tissue of mammal

- 619c ..... Hyaline cartilage of mammal, t.s.
- 620e ..... Adipose tissue, stained for fat
- 621d ..... Smooth (involuntary) muscle l.s. and t.s.
- 622e ..... Medullated nerve fibres, teased preparation of osmic acid fixed material showing Ranvier's nodes
- 623c ..... Frog blood smear, showing nucleated red corpuscles
- 624d ..... Artery and vein of mammal, t.s.
- 625d ..... Liver of pig, t.s. showing well developed connective tissue
- 626c ..... Small intestine of cat, t.s. showing mucous membrane
- 627c ..... Lung of cat, t.s. showing alveoli, bronchial tubes
- 628c ..... Oscillatoria, a common blue green filamentous alga
- 629e ..... Spirogyra in scalariform conjugation, formation of zygotes
- 630c ..... Psalliota, mushroom, t.s. of pileus with basidia and spores
- 631c ..... Morchella, morel, t.s. of fruiting body with asci and spores
- 632d ..... Marchantia, liverwort, antheridial branch with antheridia l.s.
- 633d ..... Marchantia, archegonial branch with archegonia l.s.
- 634d ..... Pteridium, braken fern, rhizome with vascular bundles t.s.
- 635d ..... Aspidium, t.s. of leaf with sori showing sporangia and spores
- 636e ..... Elodea, waterweed, stem apex l.s. showing meristematic tissue and leaf origin
- 637d ..... Dahlia, t.s. of tuber with inuline crystals
- 638b ..... Allium cepa, onion, w.m. of dry scale showing calcium oxalate crystals
- 639d ..... Pyrus, pear, t.s. of fruit showing stone cells
- 640c ..... Zea mays, corn, typical monocot root t.s.
- 641c ..... Tilia, lime, woody dicot root t.s.
- 642c ..... Solanum tuberosum, potato, t.s. of tuber with starch and cork cells
- 643c ..... Aristolochia, birthwort, one year stem t.s.
- 644c ..... Aristolochia, older stem t.s. shows secondary growth
- 645d ..... Cucurbita, pumpkin, l.s. of stem with sieve tubes, annular and reticulate vessels, sclerenchyme fibres
- 646d ..... Root tip and root hairs
- 647c ..... Tulipa, tulip, epidermis of leaf with stomata and guard cells w.m., surface view
- 648c ..... Iris, typical monocot isobilateral leaf, t.s.
- 649c ..... Sambucus, elderberry, stem showing lenticells and cork cambium, t.s.
- 650e ..... Triticum, wheat, grain (seed) sagittal l.s. with embryo and endosperm
- 701f ..... Trypanosoma gambiense, causing sleeping disease, blood smear
- 702f ..... Plasmodium berghei, malaria parasite, blood smear
- 703d ..... Radiolaria, strewn slide of mixed species
- 704d ..... Foraminifera, strewn slide of mixed species
- 705d ..... Obelia hydroid, w.m. of colony with hydrants and gonothecae
- 706d ..... Hydra, t.s. of body in different levels. Ectoderm, entoderm
- 707c ..... Planaria, typical t.s. through the body
- 708e ..... Apis mellifica, honey bee, head with compound eyes and brain t.s.
- 709d ..... Apis mellifica, abdomen of worker t.s., with intestine and nephridia
- 710e ..... Ctenocephalus canis, dog flea, adult w.m.
- 711d ..... Dermanyssus gallinae, chicken mite, adult w.m.
- 712d ..... Helix pomatia, snail, hermaphrodite gland (ovotestis), t.s. with developing ova and spermatozoa
- 713d ..... Mya arenaria, clam, gills t.s. and l.s. showing ciliated epithelium
- 714d ..... Branchiostoma lanceolatum (Amphioxus), typical t.s. of body with gills, liver, and gonads
- 715c ..... Bird feathers, w.m. of two types: wing or vane and down feathers
- 716e ..... Salamandra larva, sections from selected material showing mitotic stages in skin and other organs
- 717f ..... Chicken embryo, 48 hour, t.s. with neural tube and chorda
- 718d ..... Ovary of cat, t.s. with primary, secondary, and Graafian follicles
- 719d ..... Testis of mouse, t.s. showing spermatogenesis in all stages
- 720d ..... Cerebellum of cat, t.s. shows Purkinje cells
- 721c ..... Spinal cord of cat, t.s. showing white and grey matter, nerve cells
- 722d ..... Kidney of cat, t.s. through cortex and medulla
- 723d ..... Retina of cat, t.s. for detail of rods and cones
- 724e ..... Tongue of rabbit, t.s. of papilla foliata with abundant taste buds
- 725d ..... Bacillus subtilis, hay bacillus, smear with bacilli and spores
- 726d ..... Streptococcus lactis, milk souring organisms, smear showing chains
- 727e ..... Volvox, with daughter colonies and sexual stages, w.m.
- 728d ..... Fucus vesiculosus, brown alga, female conceptacle with oogonia t.s.
- 729d ..... Fucus vesiculosus, male conceptacle with antheridia t.s.
- 730c ..... Cladophora, green alga, branched filaments with multinucleate cells
- 731c ..... Claviceps purpurea, ergot, sclerotium t.s.

- 732d ..... *Puccinia graminis*, wheat rust, uredinia on wheat leaf t.s.
- 733d ..... *Puccinia graminis*, aecidia and pycnidia on barberry leaf t.s.
- 734b ..... *Saccharomyces*, yeast, budding cells w.m.
- 735d ..... *Physcia*, foliose lichen, thallus with symbiotic algae t.s.
- 736e ..... Fern prothallium, w.m. showing sex organs
- 737d ..... *Equisetum*, horse tail, strobilus with spores l.s.
- 738d ..... *Lupinus*, lupin, root nodules with symbiotic bacteria t.s.
- 739c ..... *Euphorbia*, spurge, stem with lactiferous ducts l.s.
- 740d ..... *Pinus*, pine, three sections of wood: transverse, radial, tangential
- 741d ..... *Tilia*, lime, three sections of wood: transverse, radial, tangential
- 742d ..... *Elodea*, waterweed, aquatic stem with primitive bundle t.s.
- 743d ..... *Cucurbita*, pumpkin, stem t.s. showing bicollateral bundles and sieve plates
- 744d ..... *Fagus*, beech, sun and shade leaves, two t.s. for comparison
- 745c ..... *Nerium*, oleander, xerophytic leaf with sunken stomata, t.s.
- 746d ..... *Pinus*, pine, male cone with pollen l.s.
- 747d ..... *Pinus*, female cone with ovules l.s.
- 748b ..... *Pinus*, mature pollen grains with wings w.m.
- 749f ..... *Lilium*, lily, t.s. of very young anthers showing meiotic stages of the pollen mother cells
- 750d ..... *Taraxacum*, dandelion, composite flower l.s.
- 751c ..... Ciliated epithelium, in t.s. of fallopian tube of pig
- 752d ..... Tendon of cow, l.s. showing white fibrous tissue, stained for fibres and cells
- 753f ..... Heart muscle, human, t.s. and l.s., branched fibres with central nuclei and intercalated discs
- 754c ..... Lymph gland of pig, t.s. showing lymphoid tissue
- 755c ..... Esophagus of cat, t.s. with stratified squamous epithelium, muscular layers
- 756d ..... Stomach of cat, t.s. through fundic region showing gastric glands
- 757d ..... Large intestine (colon), t.s. special stained for the mucous cells
- 758d ..... Pancreas of pig, sec. showing islets of Langerhans
- 759d ..... Thyroid gland of pig, sec. showing glandular epithelium and colloid
- 760d ..... Adrenal gland of cat, t.s. through cortex and medulla
- 761d ..... Sperm of bull (spermatozoa), smear
- 762e ..... Motor nerve cells, smear from spinal cord of cow showing w.m. of motor nerve cells and their processes
- 763f ..... Cerebrum, human, t.s. of cortex showing pyramidal cells and fibrous region
- 764d ..... Human skin from palm, v.s. showing cornified epidermis, germinative zone, sweat glands
- 765f ..... *Distomum hepaticum* (*Fasciola*), the beef liver fluke, w.m. and stained for general study of internal organs
- 766f ..... *Taenia spec.*, tapeworm, w.m. of mature proglottids
- 767e ..... *Culex pipiens*, mosquito, head and piercing-sucking mouth parts of female, w.m.
- 768e ..... *Culex pipiens*, mosquito, head and reduced mouth parts of male, w.m.
- 769f ..... *Cimex lectularius*, bed bug, w.m. of adult specimen
- 770f ..... Mitochondria, in thin sec. through liver or kidney, special staining technique
- 771g ..... Golgi apparatus, t.s. through spinal ganglion, special staining technique
- 772d ..... Chloroplasts, in leaf of *Elodea* or *Mnium*, special stained
- 773c ..... Aleurone grains, in sec. of *Ricinus* endosperm
- 774f ..... Storage, section of liver or kidney, vital stained with trypan-blue to demonstrate storage in epithelial cells
- 775g ..... DNA in cell nuclei, demonstrated by Feulgen staining technique
- 776g ..... DNA and RNA, fixed and stained with methyl green and pyronine to show DNA and RNA in different colors
- 777f ..... Giant chromosomes from the salivary gland of *Chironomus*. Individual genes and puffs can be observed
- 778h ..... Human chromosomes, spread in the stage of metaphase, for counting chromosomes
- 779f ..... Meiotic and mitotic stages in sec. of crayfish testis. Nuclear spindles are present
- 780f ..... Maturation divisions in ova of *Ascaris megalocephala*, different stages, iron-hematoxylin stained
- 781f ..... Cleavage stages in ova of *Ascaris megalocephala*, iron-hematoxylin stained
- 782d ..... *Escherichia coli*, bacteria from colon, probably pathogenic, smear Gram stained
- 783d ..... *Eberthella typhi*, causing typhoid fever, smear from culture, Gram stained
- 784e ..... Tuberculous lung, t.s. of diseased human lung showing miliary tubercles in tissue
- 785e ..... Coal dust lung (*Anthraxosis pulmonum*), t.s. of human smoker's lung
- 786e ..... Liver cirrhosis of man caused by alcohol abuse, t.s. showing degeneration of liver cells
- 787e ..... Arteriosclerosis, t.s. of diseased human coronary artery showing sclerotic changes in the arterial wall
- 788e ..... Metastatic carcinoma (cancer) of human liver, t.s.
- 789e ..... Sea-urchin development (*Psammechinus miliaris*), composite slide with two cell, four cell and eight cell stages
- 790e ..... Sea-urchin development (*Psammechinus miliaris*), composite slide with morula, blastula and gastrula stages
- 791f ..... Frog embryology (*Rana spec.*), sec. through the blastula stage showing the blastocoel
- 792f ..... Frog embryology (*Rana spec.*), sag. sec. through young larva in the tail bud stage, with primordia of organs
- 793e ..... Leaf (needle) of fir (*Abies*), two t.s. of leaves, healthy and damaged by environmental influences (acid rain)

- 794e ..... Leaf of beech (*Fagus*), two t.s. of leaves, healthy and damaged by environmental influences (acid rain)
- 795d ..... Bacteria from waste-water, smear with many typical forms
- 796c ..... *Nostoc*, blue green alga, filamentous colonies within gelatinous sheaths
- 797e ..... Desmids (*Desmidiaceae*), strewn slide of various species
- 798c ..... *Sphagnum*, peat moss, w.m. of leaf showing chlorophyll-bearing and hyaline cells.
- 799c ..... *Triticum*, wheat, t.s. of stem of a gramineous plant with central pith and circular arrangement of bundles
- 800c ..... *Salvia*, sage, t.s. of a square stem with angular collenchyma

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