

Cell Biology and Genetics

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Bacillus subtilis
Rhizobium meliloti, nitrogen fixing in root of legume
Spirillum volutans, large spirillum
Staphylococcus
Oscillatoria
Nostoc
Euglena
Chlamydomonas
Protococcus
Ulothrix
Cladophora
Oedogonium
Spirogyra, one chloroplast in each cell
Spirogyra, several chloroplasts in each cell
Spirogyra, conjugation, several stages
Diatoms
Laminaria japonica, sec. of sori
Rhizopus, bread mold, development of sporangia
Penicillium, sec. showing conidia on broom-like conidiophores w.m
Aspergillus, conidia on spherical conidiophores w.m
Saccharomyces, yeast w.m. showing nucleus & budding
Peziza, cup-fungus, sec. of apothecium with asci
Ustilago tritici, loose smut of wheat
Ustilago zaeae, common smut, sec. of pustule showing development of chlamydospores
Coprinus, sec. showing basidia & spores
Lichen, sec. of vegetative portion of thallus
Lichen, sec. of apothecium
Marchantia polymorpha, sec. of thallus
Marchantia, sec. of cupule with gemmae
Marchantia, gemmae w.m. (vegetative reproduction)
Marchantia, sec. of archegonial branch showing archegonia
Marchantia, sec. of antheridial branch showing archegonia
Marchantia, sec. of mature sporophyte
Moss, L.S. of antheridial cluster with antheridia
Moss, L.S. of archegonial head with archegonia
Moss, protonema w.m.
Moss, sporophyte attached to the gametophyte w.m
Fern, sec. of leaf with sporangia
Fern, X.S. of rhizome



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Salvinia, floating fern, L.S. of sporocarps
Fern prothallium w.m. of young specimen showing antheridia only
Fern prothallium w.m. of young specimen showing archegonia only
Fern prothallium typical specimen showing both antheridia & archegonia w.m
Fern prothallium, w.m. young sporophyte
Ginkgo, X.S of leaf & petiole
Pinus, X.S of leaf
Pinus, first year stem X.S
Pinus, mature wood X.S
Pinus, mature wood rad sec
Pinus, mature wood tang. sec
Pinus, macerated wood tracheids & other cells isolated
Pinus, cec. Of? young male strobilus showing meiosis
Pinus, median L.S. of male strobilus with axis, microsporophylls & microsporangiums
Pinus, X.S of male strobilus with microspores
Pinus, w.m. of mature pollen grains
Pinus, L.S. of young female cone showing bracts & ovuliferous scales bearing ovules
Daucus, carrot, X.S. of fleshy tap root
Helianthus, sunflower X.S. of mature root
Cuscuta, dodder, on host X.S. showing haustorium
Ranunculus, X.S. of young root showing protoxylem & protophloem
Ranunculus, X.S. of mature root showing metaxylem & radial bundle type
Vicia, L.S. of root-tip for mitosis
Vicia faba, kidney bean, L.S. of young root tip showing root cap
Vicia faba, X.S. of young root showing root hair
Vicia, X.S. of older root
Vicia faba, X.S. of root showing development of lateral roots
Ipomoea, sweet potato, X.S. of fleshy root showing food storage
Allium, onion, L.S. of root-tips showing every stage in cell division & mitosis
Allium, root-tip X.S. at several different levels
Orchid, X.S. of aerial root
Zea mays, corn, L.S. of root tip showing root cap etc
Zea mays, corn, L.S. of root, polyarch arrangement
Rice, X.S. of root showing aerenchyma
Triticum, wheat, X.S. of root
Cuscuta, pumpkin, X.S. of stem, best type for study of phloem, showing sieve plates etc
Cuscuta, L.S. of stem, showing sieve tubes etc
Helianthus, Sunflower stem X.S. showing typical dicot stem
Helianthus, sunflower stem, L.S.
Pelargonium, geranium, X.S. of young stem
Pelargonium, X.S. of old stem showing secondary vascular tissue & cork



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Cotton,stem X.S
Ricinus,castor bean,X.S. of stem showing typical vascular structure
Buxus L.S. of stem tip showing meristematic tissue
Nymphaea,water lily,X.S.of aquatic stem showing air chamber
Nymphaea,water lily,X.S. of aquatic stem showing reduced vascular tissue & sclerenchyma cells
Solanum,Irish potato,X.S. of mature tuber stained for starch grains
Tilia,basswood,X.S. of 1st year stem
Tilia,X.S. of 2 year stem
Tilia,X.S. of 3-year stem
Tilia,X.S. of older stem(4 or 5 years)showing mature structure with annual rings
Tilia.L.S. of older stem(4 or 5 years)
Tilia,macerated wood,showing individual wood fibers
Salix,willow.X.S. of stem
Nerium stem X.S
Sambucus,elder,sec.of bark with lenticel
Zea mays,com,X.S.of stem showing typical monocot stem
Zea,stem L.S
Zea X.S.of young stem enclosed in sheath,leaves
Rice X.S. of stem
Triticum,wheat,X.S. of stem showing few scattered bundles
Leaf bud L.S.showing leaf development
Pittosporum,X.S.of a typical dicot leaf
Cotton,leaf X.S
Vicia,dicot leaf, w.m.of epidermis showing stomata
Nerium leaf X.S.showing sunken stomata pits cuticle etc
Nicotiana,tobacco X.S.of leaf with glandular hairs
Pelargonium,geranium,X.S.of leaf showing cystolith in a xerophyte
Ficus,rubber plant,X.S.of leaf showing cystolith in a xerophyte
Nymphaea,water lily,X.S.of floating leaf showing spongy tissue, air chambers & sclerenchyma cells
Allium,onion,w.m.of epidermis showing cells & nuclei
Lilium,w.m.of epidermis showing stomata)
Lilium,X.S.of a typical monocot leaf
Zea mays,com,X.S.of leaf showing separate bundles
Triticum,wheat.X.S.of leaf(grass type)
Rice,X.S.of leaf
Capsella,sec.of developing flower spike showing various stages in the development of the floral parts
Lilium,X.S.of typical monocot flower
Pollen types w.m. of a great variety of pollens,mixed
Pollen tubes w.m.of germinated pollen
Zea mays,corn.L.S.of kernel through embryo



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Tricicum,wheat,L.S.of endosperm showing stored food
Ricinus,castro bean,X.S.of endosperm showing stored food
Diospyros,endosperm section showing plasmodesma
Capsella,L.S.of ovule with embryo at early stage showing origin of plerome.periblem & dermatogen
Capsella,L.S.of embryo with cotyledons just differentiating
Capsella,L.S.of embryo with young cotyledons
Capsella.L.S.of mature embryo with cotyledons
Lilium,X.S.of anther showing pollen grains
Lilium,L.S.of anther showing pollen chambersgrains
Lilium,X.S.of very young anther showing early sporogenous tissue
Lilium,X.S.of young anther showing microspore mother cells
Lilium,X.S.of anther with microspore mother cells in prophase
Lilium,anther sec.showing 1st division (heterotypic)in microspore mother cells
Lilium anther sec.showing second division(homeotypic)
Lilium sec.of anther showing terads
Lilium sec.of anther showing pollen grains at time of shedding(2-cell stage)
Lilium,w.m. of mature pollen
Lilium,L.S.of style & stigma,showing pollen grains
Lilium,X.S.of of ovary showing general structure & arrangement of of ovules
Lilium,X.S.of.young ovary showing ovules with megaspore mother cells(uninuclear embryo sac
Lilium,X.S.of ovary,ovules showing first division of megaspore mother? cell.heterotypic division
Lilium,X.S.of ovary,ovules showing binucleate embryo sac.
Capsella,L.S.of embryo with cotyledons just differentiating

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Euglena
Plasmodium vivax, parasite of benign tertian malaria blood smear
paramecium stained for general structure two different staining techniques
Paramecium, various stages of fission
Paramecium, various stages of conjugation
Paramecium, stained to show cilia
Protozoa mixed species
Hydra, extended specimen showing general structure w.m.
Hydra, with bud w.m
Hydra, X.S. showing detailed structure of ectoderm & endoderm
Hydra X.S. through testis
Hydra X.S. through ovary
Hydra L.S. through hypostome & basal disk
Hydra L.S. through adult & bud
Hydra w.m. of tentacles
Planaria with intestines injected & stained
Schistosoma japonicum, blood fluke, male w.m
Schistosoma japonicum, blood fluke, female w.m
Schistosoma japonicum, male & female in copula
Schistosoma japonicum, ova w.m.
Schistosoma japonicum, miracidia w.m
Schistosoma japonicum, cercaria w.m
Taenia solium human tapeworm, scolex, w.m
Taenia solium, ova w.m
Taenia hydatigena, mature proglottid
Ascaris X.S. of male in region of sex organs
Ascaris X.S. of female in region of sex organs
Ascaris, ova w.m
Ascaris, an excellent slide to demonstrate animal mitosis
Nereis, parapodium w.m
Earthworm (Pheretima) X.S. back of clitellum
Earthworm, X.S. selected to show setae
Earthworm, X.S. through clitellum
Earthworm, median L.S. of anterior end
Clam gill X.S. showing general structure



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Aphis gossypii,w.m.
Daphnia w.m.of fall female,with ephippium
Cyclops w.m.with egg sacs
Culex,common house mosquito,female w.m
Culex,common house mosquito,male w.m
Culwx,common house mosquito,larva w.m
Culwx,common house mosquito,pupa w.m
Butterfly,w.m.of sucking tube (Siphoning type)
Mosquito heads,male & female on same slide long slender piercing sucking type w.m
Honey bee mouth parts (lapping type)
House fly proboscis (sponging type)
Cricket wings,showing file &scraper w.m
House fly wing &halteris(rudimentary under wing)w.m.
Honey bee wings,hooks&ridge forlocking wings together in flight w.m
Butterfly,wing scales,portion selected to show details
Honey bee,three legs showing eye brush,antenna cleaner,pollen basket,pollen comb etc w.m.
Butterfly,wing scales,portion selected to show details
Grasshopper jumping leg,w.m.
Mantis w.m.of front leg,usedfor grasping
Insect legs,four typical legs on each slide(jumping,grasping,digging &swimming)showing adaptations
Antenna types five kinds(plumose,pectinate,aristate,Inmellate,moniliform)
Gizzard,cricket,flat mount of lining showing pattern of chitinous teeth
Prawn eye L.S.through ommatidia
Cornea,flat mount to show facets
Insect trachea,w.m.showing cellular structure tracheal rings &fine branching
Malpighian tubules,grasshopper,w.m.
Striated muscle,grasshopper,X.S.&L.S.on each slide
Grasshopper,sec.of testis showing mitosis
Amphioxus(Branchiostoma)w.m.of mature small specimen
Amphioxus X.S.through mouth
Amphioxus X.S.through pharynx,anterior to the gonads,showing gills
Amphioxus X.S.through posterior portion of pharynx.to show gonads
Amphioxus X.S.of intestinal region,anterior to the atriopore



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Amphioxus X.S.of intestinal region between atriopore&anus
Amphioxus X.S.of tail
Amphioxus X.S.through male &female specimens in region of gonads
Amphioxus X.S.of pharynx,intestinal region & tail on one slide
Frog small intestine,cross section
Frog skin,section showing serous gland & pigment cells etc
Frog skin flat mount to show pigment cells

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Squamous epithelium scrapings from human mouth
Squamous epithelium amphibian epidermis
Stratified squamous epithelium
Cuboidal epithelium
Simple columnar epithelium
Pseudostratified ciliated columnar epithelium from trachea
Columnar epithelium macerated,intestinal mucosa
Ciliated epithelium macerated,mouth epithelium of frog
Ciliated epithelium ,sec.of clam gill
Transitional epithelium,wall of bladder
Mitochondria sec.of liver
Mitochondria,kidney
Golgi apparatus in epithelial cells of intestine
White fibrous tissue L.S.of rat tail showing rows of tendon cells
Areolar connective tissue,white & elastic fibers &interstitial cells
Muroid tissue,from umbilical cord
Reticular tissue,trom lymph gland,bielschowski stain
Adipose tissue
Hyaline cartilage,rabbit
Elastic cartilage
Fiber -cartilage
Bone,human,ground thin X.S
Bone,human,ground thin L.S.
Bone,developing,cartilage,type,joint of finger or head of femur of fetus
Bone,developing,developing ,membrane type,skull,of foetal head
Blood,fish
Blood,frog
Blood,chicken
Blood,pigeon
Blood,sparrow
Blood,human,Wright' s stain
Blood,human,H.&E
Blood,rabbit
Striated muscle,teased preparation showing whole fibres,nuclei,fibrillae,striations
Striated muscle.X.S.& L.S.showing nuclei,fibrillae & striations



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Smooth (involuntary)muscle,teased preparation
Smooth muscle ,X.S.& L.S.
Hiatr,uscle,teased preparation showing branching character striations &intercalated disks
Heart muscle L.S.showing intercalated disks
Muscle & tendon L.S
Nerve cells,section spinal cord,motor nerve cells,silver impregnated
Pyramidal cells,cerebrum Golgi stain
Purkinje cells,cerebellum,Golgi stain
Nerve X.S.& L.S.,H. & E
Spinal ganglion,L.S.,H.& E.showing nerve fibers & nerve cells
Spinal ganglion,human L.S.Bielschowski silver stained
Motor nerve endings in intercostal muscles,gold impregnated
Tongue,rabbie sec.showing taste buds
Tongue,cat L.S.showing thick horny layer
Parotid gland,a purely serous gland
Sublingual gland,a mixed gland
Palatine tonsil
Esophagus X.S.dog upper region showing esophageal.Gland
Esophagus & trachea L.S.of both organs
Larynx oesophagus L.S.of both organs
Esophagus & stomach L.S.showing junction
Body of stomach,sec.of wall showing typical fundic glands
Stomachus pyloricus,sec.from lower portion of the stomach
Stomach & duodenum L.S.of the junction
Dtomach X.S.showing Brunner' s gland & intestinal glands
Jejunum,X.S.typical slide for intestine with villi
Lleum,X.S.showing aggregated lymphoid nodules in mucosa
Large intestine ,X.S.
Appendix,human,X.S.
Liver ,human
Liver,pig,fibrous trabeculae between lobules
Liver ,rabbit,stained to show glycogen
Gall bladder,X.S
Bile duct,X.S
Pancreas,secreting acini & islands of langerhans



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Trachea,X.S.ciliated epithelium,cartilage & fibrous tissre
Trachea,L.S
Lung,human,general structure
Lung,rabbit injected
Lung rabbit,thick sec,of pattern of alveoli,in relation of bronchioles
Heart,rat X.S.through atrium cordis
Heart,rat,L.S.
Aorta,human X.S.H.E.& elastic tissue stain
Artery,& vein,elastic tissue stain as above
Vena cava,X.S.elastic tissue stain
Spread of rat mesentery,stained to show blood vessels
Kidney,human,sec.cortex & medullar with glomerulus tubules
kidney,guinea-pig L.S.of whole organ through pelvis
Kidney,rabbit,section,blood vessels injected
Ureter,X.S.
Urinary bladder
Ovary,rabbit,ses.for general structure,numerous developing eggs
Ueerine tube (oviduct),human,sec,through ampulla
Uterus,X.S.of entire uterus of rabbit ,showing all coats
Placenta,human,sec.showing chorionic villi,etc.
Umbilical cord,human X.S
Testis,human,showing general structure
Spermatozoa,human sperm smear
Bull,sperm smear
Sheep,sperm smear
Rabbit testis,fixed &stained for mitosis,best slide for spermatogenesis
Rabbit,sperm smear
Guinea pig testis,fixed & stained for mitosis,Best slide for spermatogenesis
Guinea pig ,sperm smear
Epididymis,tubules filled with Spermatozoa
Vae deferens,human,X.S
Prostate
Cerebrum,rabbit,impregnated with silver
Cerebellum,rabbit,impregnated with silver
Whole brain,rabbit L.S.



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Spinal cord,silver impregnated X..S.showing motor cell nerve fiber
Ear,internal cochlea (organ of corti)guinea pig
Ear,internal near median sec.of guinea pig cochlea
Eye,cornea,human fibrous tissue,stratified epithelium
Eye ,iris,radial sec
Retina sec,human
Lacrimal gland, human,a typical serous gland

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