PREPARED MICROSCOPE SLIDES IN SYSTEMATIC ORDER

The list of the available microscopic specimens was also revised and further essentially completed. Their systematic arrangement facilitates the finding of slides necessary to compile series for special use. A detailed list of contents is found on page 76.

Helpful for orientation are the • marked slides of important specimens which are characteristic and representative of the taxonomic group or of the subject.

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 * in the catalogue, for which we cannot guarantee delivery.

Abbreviations: t.s. transverse or cross section l.s. longitudinal section w.m. whole mount or entire specimen

PROTOZOA

Rhizopoda (Sarcodina)

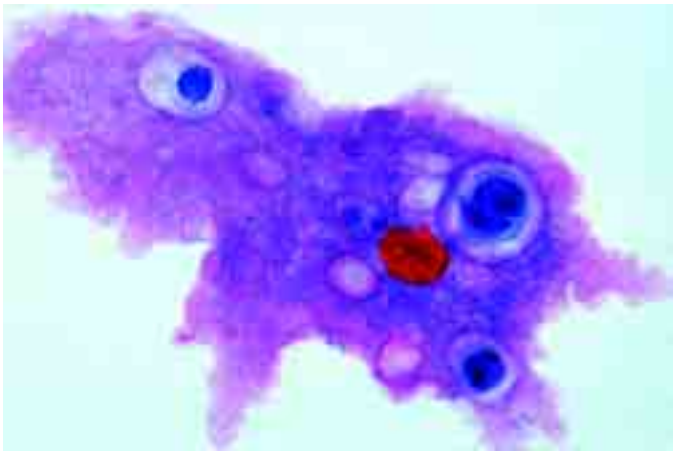
Pr112e • **Amoeba proteus,** showing nucleus, endoplasm, ectoplasm, food vacuoles, pseudopodia w.m.
Pr113f **Amoeba proteus,** section through specimens
Pr114f • **Entamoeba histolytica,** causes amebic dysentery, smear from feces
Pr1141h **Entamoeba histolytica,** causes amebic dysentery, smear with trophozoites (asexual forms) *
Pr1142h **Entamoeba histolytica,** smear showing cysts *
Pr115g **Entamoeba histolytica,** section through diseased colon showing the parasites in situ
Pr116g • **Entamoeba coli,** nonpathogenic, smear from feces
Pr1161h **Entamoeba coli,** nonpathogenic, smear with trophozoites *
Pr1162h **Entamoeba coli,** smear showing cysts *
Pr1165h **Entamoeba hartmanni** trophozoites. Smear**,** intestinal amoeba; nonpathogenic to humans
Pr1166h **Entamoeba hartmanni** cysts. Smear
Pr1168h **Dientamoeba fragilis** trophozoites. Smear
Pr117f **Entamoeba invadens,** large specimens from culture, good for demonstration
Pr1173g **Entamoeba gingivalis,** smear with trophozoites
Pr1174h **Endolimax nana,** small human parasite, smear with trophozoites *
Pr1175h **Endolimax nana,** smear with cysts *
Pr1177h **Jodamoeba butschlii,** a commensal living in the human intestine, smear with trophozoites *
Pr1178h **Jodamoeba butschlii,** smear with uninucleate cysts *
Pr1181v **Pneumocystis carinii.** Smear from lung tissue stained to show cyst wall of parasites *
Pr1182v **Pneumocystis carinii.** Smear from lung tissue stained to show trophozoites and sporozoites *
Pr119d • **Arcella,** shelled amoeba w.m.
Pr1195s **Actinosphaerium,** a fresh water actinopode w.m. *
Pr121d • **Radiolaria,** mixed species showing different forms
Pr122d • **Foraminifera,** mixed species showing different forms
Pr1251d **Foraminifera** from Mediterranean sea, mixed recent
Pr1252d **Foraminifera,** mixed fossil, chalk
Pr124d **Foraminifera,** mixed forms from the Adriatic Sea
Pr123d • **Globigerina,** marine forms, mixed species

Flagellata (Mastigophora)

Pr211c • **Euglena viridis,** a common green flagellate with eyespot and flagellum, w.m.
Pr2112c **Euglena gracilis,** a smaller species, w.m.
Pr2113f **Euglena,** a large species specially fixed and stained to show the flagella, w.m.
Pr2114d **Phacus,** flat heart-shaped cells w.m.
Pr2115e **Trachelomonas,** a free swimming species of the Euglenophyta
Pr212c • **Ceratium hirundinella,** a fresh water dinoflagellate w.m.
Pr2121c **Ceratium,** slide showing different marine forms w.m.
Pr2123d **Peridinium,** a fresh water dinoflagellate w.m.
Pr213d • **Noctiluca miliaris,** a large marine flagellate causing the phosphorescence of the sea, w.m.
Pr225h **Chilomastix mesnili,** flagellate found in human intestine, nonpathogenic, smear with trophozoites *
Pr2252h **Chilomastix mesnili,** smear with cysts
Pr221h **Giardia lamblia intestinalis,** human parasite, smear with trophozoites *
Pr2212h **Giardia lamblia intestinalis,** smear with cysts *
Pr223f • **Trichomonas sp.,** smear with trophozoites
Pr2232h **Trichomonas vaginalis,** smear *
Pr2233h **Trichomonas muris**, trophozoites
Pr230f • **Trypanosoma gambiense**, a blood flagellate, causing Central African sleeping disease, blood smear
Pr231f **Trypanosoma rhodesiense,** causes South African sleeping disease, blood smear with parasites
Pr232f • **Trypanosoma evansi,** causes surra in cattle, blood smear
Pr233f • **Trypanosoma brucei,** causes nagana, blood smear
Pr234f **Trypanosoma congolense,** pathogenic to domestic animals, blood smear
Pr235f • **Trypanosoma equiperdum,** dourine in horses, blood smear
Pr236f • **Trypanosoma cruzi (Schizotrypanum),** causes Chagas disease of man, blood smear showing trypanosomes
Pr237g • **Trypanosoma cruzi,** section through infected heart muscle shows Leishmania forms in tissue *
Pr2372h **Trypanosoma cruzi.** Smear from culture showing cultured forms *
Pr2373g **Trypanosoma cruzi.** Leishmania forms in sec. of mouse brain *
Pr2374g **Trypanosoma cruzi.** Leishmania forms in sec. of mouse liver *
Pr2375g **Trypanosoma cruzi.** Leishmania forms in sec. of mouse heart muscle fibres *
Pr2376g **Trypanosoma cruzi.** Leishmania forms in sec. of mouse spleen
Pr241f **Trypanosoma lewisi,** a large species living in rats and mice, blood smear with parasite, heavy infection
Pr2413g • **Trypanosoma lewisi,** blood smear, early stages of infection with division stages
Pr2414g **Trypanosoma lewisi,** blood smear, later stages of infection, large forms *
Pr238f • **Leishmania donovani,** causes Kala-Azar, smear from the infected spleen showing the typical Leishman-Donovan bodies
Pr239g • **Leishmania donovani,** section through infected spleen or liver showing the parasites within the cells
Pr2392t **Leishmania donovani,** smear from culture showing Leishman and leptomonad forms *
Pr2395h **Leishmania donovani,** promastigotes, smear from culture *
Pr2396h **Leishmania donovani,** amastigotes, smear from tissue *
Pr2397h **Leishmania mexicana,** promastigotes, smear from culture *
Pr240f **Leishmania enrietti,** section through nasal abscess from Guinea pig. Very heavy infection
Pr2405g **Crithidia fasciculata,** smear from intestine of Anopheles mosquito with typical crithidia forms *
Pr2378g **Termite Flagellates.** W.m., showing large forms *
Pr251d • **Silicoflagellates**, various species

Sporozoa

Pr311f • **Plasmodium falciparum,** malignant tertian malaria of man, blood smear with typical ring stages
Pr3112g **Plasmodium falciparum,** blood smear with more gametocytes *
Pr312f **Plasmodium falciparum,** thick diagnostic smear *
Pr313h **Plasmodium vivax,** benign tertian malaria of man, blood smear *
Pr3132h **Plasmodium vivax,** thick diagnostic blood smear *
Pr3145h **Plasmodium malariae,** causing quartan malaria, blood smear *
Pr315f • **Plasmodium berghei,** blood smear from experimentally infected mouse. Very heavy infection shows abundant parasites in different stages of development
Pr320h **Plasmodium sp.,** section through infected mosquito stomach with oocysts containing sporozoites *
Pr321i **Plasmodium sp.,** section through the salivary gland of infected mosquito with sporozoites *
Pr322h **Plasmodium sp.,** exoerythrocytic stages in sec. of brain *
Pr323h **Plasmodium sp.,** exoerythrocytic stages in sec. of liver *
Pr3235g **Malaria melanemia in human spleen,** sec. showing pigment granules in endothelium and Kupffer's cells
Pr326f **Plasmodium praecox,** avian malaria, blood smear
Pr327f • **Plasmodium gallinaceum (Proteosoma),** fowl malaria, blood smear from chicken *
Pr328f **Plasmodium cathemerium,** avian malaria, blood smear *
Pr3285s **Plasmodium circumflexum,** smear from lung or brain of bird showing exoerythrocytic schizogony *



Amoeba proteus

Pr3287s **Leukocytozoon,** smear from fowl blood with parasites *
Pr329s • **Haemoproteus columbae,** pigeon malaria, blood smear *
Pr3293t **Haemogregarina,** smear from frog blood with parasites *
Pr337f • **Babesia canis,** blood smear shows heavy infection
Pr338f • **Toxoplasma gondii,** causing toxoplasmosis, tissue smear with parasites
Pr3381f • **Toxoplasma gondii,** section of the brain showing cysts with parasites *
Pr330e • **Nosema apis,** honey bee dysentery, sec. of diseased intestine
Pr331d • **Monocystis lumbrici,** in smear from earthworm seminal vesicle
Pr332d **Monocystis lumbrici,** section with parasites in situ

Pr333f • **Gregarina,** in smear from mealworm (Tenebrio) intestine
Pr334d **Gregarina,** in section from mealworm intestine, parasites in situ
Pr335d • **Eimeria stiedae,** causing coccidiosis in rabbit, section of liver shows schizogony and all developing stages
Pr3352d **Eimeria stiedae,** coccidiosis, smear from faeces
Pr336d **Eimeria tenella,** section of diseased chicken intestine *
Pr339f • **Sarcocystis tenella,** section of muscle showing the parasites in Miescher's tubes
Pr3392f **Sarcocystis tenella** in heart muscle, sec.
Pr3365s **Myxosoma**, parasite on fish gill, sec. *

Ciliata (Infusoria)

Pr411d • **Paramaecium,** macro- and micronuclei stained. The typical slide for general study of this common ciliate
Pr412e **Paramaecium,** food vacuoles and nuclei doubly stained
Pr413e **Paramaecium,** pellicle stained after Bresslau
Pr414e **Paramaecium,** silver stained to show the silver line or neuroformative system
Pr415e **Paramaecium,** specially prepared and stained to show the trichocysts
Pr416f • **Paramaecium,** in conjugation, nuclei stained *
Pr417g • **Paramaecium,** in fission, nuclei stained *
Pr418e **Paramaecium,** section through many individuals, triply stained
Pr419f **Paramaecium,** stained with Feulgen reaction
Pr4194e **Paramaecium multimicronucleatum,** w.m. nuclei stained. this species contains several micronuclei
Pr4195e **Paramaecium aurelia,** w.m. nuclei stained. This species containing one macronucleus and two micronuclei
Pr4196e **Paramaecium bursaria,** w.m. and nuclei stained, showing symbiotic zoochlorellae in endoplasm
Pr422e • **Vorticella,** a common stalked ciliate w.m.
Pr4222e **Vorticella,** a marine species, coloniate ciliate
Pr421d • **Stylonychia,** a common ciliate w.m.
Pr430e • **Colpidium,** a common holotrich ciliate
Pr427f **Spirostomum ambiguum,** a ciliate with very large nucleus
Pr428g **Stentor,** a trumpet-shaped large ciliate *
Pr429e • **Euplotes,** a common marine ciliate
Pr4306f **Bursaria truncatella,** a large fresh water ciliate *
Pr4309e **Blepharisma,** a large ciliate with pigment granules *
Pr4305e **Didinium nasutum,** a small ciliate parasite on Paramaecium *
Pr423f **Dendrocometes paradoxus,** suctorial infusoria on the gills of Gammarus *
Pr424f **Trichodina domerguei,** parasite living on fish gills *
Pr4307e • **Ephelota,** a stalked marine suctorian *
Pr4311e **Suctoria,** marine species
Pr425f **Opalina ranarum,** smear from frog intestine
Pr426e • **Opalina ranarum,** in section through frog intestine
Pr4265t **Balantidium coli,** human parasite, smear with trophozoites *
Pr4266t **Balantidium coli,** smear with cysts *
Pr4267t **Balantidium coli,** in sec. of human intestine *
Pr433f **Ciliates from the rumen of cow,** different species
Pr435h **Ciliates,** specially prepared and stained to show the cilia
Pr440f • **Mixed protozoa,** many different forms are found on this slide

We will gladly make special offers for any slides or sets which are not listed in our catalogue. Please ask for further information.

MESOZOA

Me111f **Dicyema**, simple animal with body and sexual cells, from smear of Sepia *

PORIFERA – SPONGES

Po111d • **Sycon,** a small marine sponge of the sycon type, t.s. through the body
Po112f • **Sycon,** near med. long. sec. through body and osculum
Po113d **Sycon,** tangential long. sec.
Po114d **Sycon,** thick t.s. with calcareous spicules in situ
Po115b • **Sycon,** spicules isolated, w.m.
Po116f **Sycon,** sec. showing stages of development *
Po1165e **Sycon,** l.s. and t.s. on one slide
Po117d **Grantia,** a marine sponge of the sycon type, t.s. through the body
Po118f **Grantia,** near median long. sec. through body and osculum
Po119d **Grantia,** tangential long. sec.
Po1192e **Grantia**. t.s. and l.s. on one slide
Po1193d **Grantia**, calcareous spicules, isolated and w.m.
Po1194e **Grantia**, thick t.s. with calcareous spicules in situ
Po121d • **Spongilla,** fresh water sponge, t.s. showing choanocytes, incurrent and excurrent channels
Po122d • **Spongilla,** gemmulae (winter bodies) w.m.
Po123b **Spongilla,** siliceous spicules isolated and w.m.
Po125e • **Leucosolenia,** a simple marine sponge of the ascon type, stained and w.m.
Po126d **Leucosolenia,** t.s. through the body
Po128c • **Euspongia,** a commercial sponge, macerated skeleton shows horny fibres, w.m.
Po129d **Euspongia,** typical t.s. through the body
Po140c **Sponge spicules,** strewn slide of mixed species w.m.

COELENTERATA

Co111e • **Hydra**, extended specimen carefully stained for general body study, w.m. showing all details
Co112f • **Hydra** with bud, w.m. *
Co1121f **Hydra** with bud, l.s.
Co113d • **Hydra**, t.s. through the body in different levels showing ectoderm with nematocysts, supporting lamella and entoderm
Co114d • **Hydra**, l.s. through body and tentacles
Co1141g **Hydra**, median l.s. through basal disc, gastro-vascular cavity, hypostome and tentacles *
Co1143e **Hydra**, t.s. and l.s. on one slide
Co115e **Hydra** with male gonad (testis), t.s.
Co1151f **Hydra** with male gonad (testis), w.m. *
Co116e **Hydra** with female gonad (ovary), t.s.
Co1161g **Hydra** with female gonad (ovary), w.m. *
Co1165s **Hydra**, t.s. of male and female gonads on one slide
Co117d **Hydra**, isolated cells w.m. showing the different cell types, nematocysts
Co118f **Hydra** with food in the digestive cavity, w.m. *
Co119d **Hydra** with food in the digestive cavity, t.s. through body
Co1195f **Hydra**, plain and budding, two specimens w.m.
Co211d • **Obelia hydroid,** colony of polyps with hydrants and gonothecae, w.m. for general study
Co212e • **Obelia medusa,** small jellyfish, w.m. for general study
Co230g **Obelia,** sec. through budding medusae in different stages *
Co213d **Plumularia setaceae,** colony of polyps w.m.
Co214d • **Tubularia larynx,** colony of polyps, w.m. or l.s.
Co233f **Tubularia larynx,** actinula larva w.m.
Co215d **Sertularia cupressina,** colony of polyps w.m.
Co216d • **Campanularia johnstoni,** colony of polyps w.m.
Co235d **Hydractinia,** colony of polyps w.m.
Co220d **Coryne sarsi,** colony of polyps showing budding and developing medusae, w.m. *
Co217e **Jellyfish,** section through the margin of umbrella shows statocysts
Co2175g **Aurelia,** jellyfish, planula larva w.m..
Co2176g **Aurelia,** scyphistoma w.m. *
Co2177g **Aurelia,** scyphistoma in strobilation, l.s.
Co218e • **Aurelia,** ephyra w.m. *
Co219d • **Actinia (Metridium),** sea anemone, t.s. through entire young specimen
Co2191d • **Actinia (Metridium),** sea anemone, l.s. through entire young specimen
Co2193e **Actinia,** t.s. and l.s. on one slide
Co222d **Anemonia,** sea anemone, sec. through the tentacles shows nematocysts and zoochlorellae
Co225e • **Alcyonium digitatum,** leathery coral, t.s. of colony
Co2252e **Alcyonium,** coral, w.m. of colony
Co226c • **Lime bodies of different corals,** w.m.

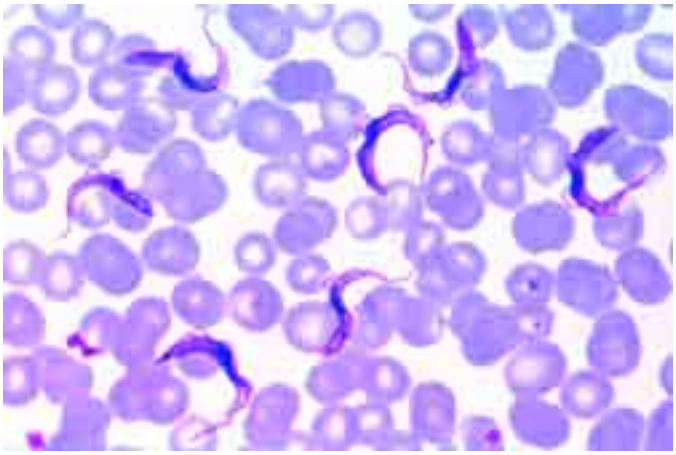
PLATYHELMINTHES - FLATWORMS

Turbellaria – Turbellarians

Py111f • **Planaria,** selected specimen stained for general study, of the body, flat w.m.
Py1115g **Planaria,** selected specimen specially stained to show the digestive tract and its branches and diverticula, w.m. *
Py112c **Planaria,** t.s. through the body for general study
Py113c • **Planaria,** t.s. through the body in region of pharynx
Py114e **Planaria,** section selected to show the ocelli
Py115f **Planaria,** t.s. through three regions: anterior end, region of pharynx and region of gonads
Py1162e **Planaria,** sagittal l.s. for general structures
Py117f **Planaria,** median l.s. through entire specimen

Trematodes – Flukes

Py211e • **Dicrocoelium lanceolatum** (D. dendriticum), sheep liver fluke, entire mount and stained for internal structures
Py212d **Dicrocoelium lanceolatum,** t.s. of the body
Py2121d **Dicrocoelium lanceolatum,** ova w.m.
Py213f • **Fasciola hepatica (Distomum hepaticum),** beef liver fluke, selected specimen flat mount and carefully stained
Py214c • **Fasciola hepatica,** t.s. through the body
Py2142d **Fasciola hepatica,** t.s. through two different body regions
Py215e **Fasciola hepatica,** near median l.s. through adult specimen
Py2152d **Fasciola hepatica,** l.s. through two different body regions
Py216d • **Fasciola hepatica,** ova w.m.
Py217h • **Fasciola hepatica,** miracidia (free living larvae) w.m. *
Py2172i **Fasciola hepatica,** redia w.m. *
Py2173i **Fasciola hepatica,** cercaria w.m. *
Py2174i **Fasciola hepatica,** metacercaria w.m. *
Py219f • **Fasciola hepatica,** redia and cercaria in sec. through infected snail liver
Py220e **Fasciola hepatica,** horizontal l.s. through entire specimen
Py2201e **Fasciola hepatica,** horizontal l.s. through entire specimen specially fixed and stained to show the excretory system
Py2202e **Fasciola hepatica in bile ducts of liver,** t.s.
Py2205u **Fasciolopsis buski,** large intestinal fluke, flat mount *
Py2206e **Fasciolopsis buski,** ova w.m.
Py2207u **Fasciolopsis buski,** miracidia w.m. *
Py2208u **Fasciolopsis buski,** redia w.m. *
Py2209u **Fasciolopsis buski,** cercaria w.m. *
Py221h • **Schistosoma mansoni,** causing bilharziosis, adult male w.m.
Py222h • **Schistosoma mansoni,** adult female w.m.
Py223i **Schistosoma mansoni,** adult male and female in copula, w.m. and carefully stained for general study
Py224e **Schistosoma mansoni,** t.s. of adult male and female
Py225h **Schistosoma mansoni,** miracidia w.m. *
Py226h **Schistosoma mansoni,** cercaria with bifurcate tail w.m. *
Py227g • **Schistosoma mansoni,** section through infected snail liver showing cercaria
Py228f **Schistosoma mansoni,** section through snail liver not infected, for comparison
Py229g • **Schistosoma mansoni,** ova in section of liver or intestine *
Py230e • **Schistosoma mansoni,** ova in faeces w.m.
Py231e • **Schistosoma haematobium,** ova from urine sediment w.m.
Py232e **Schistosoma japonicum,** ova in faeces w.m. *
Py233h **Schistosoma japonicum,** adult male w.m. *
Py234h **Schistosoma japonicum,** adult female w.m. *
Py2345u **Schistosoma japonicum,** miracidia w.m. *
Py2347v **Schistosoma japonicum,** cercariae w.m. *
Py247h **Clonorchis sinensis,** Chinese liver fluke, w.m. of adult *
Py2472d **Clonorchis sinensis,** t.s. through the body
Py248s **Clonorchis sinensis,** sec. of human liver with parasitic worms in the bile ducts *
Py2483h **Clonorchis sinensis,** metacercaria w.m. *
Py249e **Clonorchis sinensis,** ova w.m.
Py245h **Opisthorchis felineus,** cat liver fluke, w.m. of adult *
Py251t **Heterophyes heterophyes,** fluke parasite in human intestine, w.m. of adult specimen *
Py253h **Echinostoma revolutum,** occuring in mammals, adult w.m. *
Py254e **Echinostoma revolutum,** ova w.m.
Py255h **Echinoparyphium recurvatum,** occuring in poultry, w.m. of adult specimen
Py261e **Paragonimus,** lung fluke, ova w.m. *
Py2614i **Paragonimus,** miracidia w.m. *
Py2615i **Paragonimus,** rediae w.m. *
Py2616i **Paragonimus,** metacercariae w.m. *
Py270t **Metagonimus,** w.m., a small intestinal fluke which infests man and animals.
Py271f **Prosthogonimus macrorchis,** eggs, w.m.
Py273t **Eurytrema pancreaticum** w.m., parasite of cattle and pig *
Py236g **Leucochloridium macrostomum**, parasite of birds, section through snail tentacle with sporocyts containing cercaria
Py2553h **Hypoderaeum conoideum**, an echinostome occuring in ducks, w.m.



Trypanosoma gambiense, causing African sleeping disease, blood smear

Cestodes – Tapeworms

Py321f • **Taenia pisiformis (Taenia serrata),** tapeworm of dogs, immature proglottids w.m.
Py322f • **Taenia pisiformis,** mature proglottids w.m.
Py323f • **Taenia pisiformis,** gravid proglottids w.m.
Py3235d **Taenia pisiformis,** t.s. through proglottids
Py324i • **Taenia pisiformis,** scolex w.m. *
Py3243k **Taenia pisiformis,** composite slide with whole mounts of scolex, immature, mature and gravid proglottids *
Py3245d • **Taenia pisiformis,** ova from faeces w.m.
Py325f • **Cysticercus pisiformis,** bladderworm of Taenia pisiformis, section
Py3251t **Cysticercus pisiformis,** w.m. of complete bladderworm *
Py311f • **Taenia saginata,** tapeworm, proglottids w.m. *
Py312g **Taenia saginata,** selected mature proglottids w.m. *
Py313d • **Taenia saginata,** t.s. of proglottids in different stages, the standard slide for general study
Py314d • **Taenia saginata,** ova in faeces w.m.
Py3145f • **Cysticercus bovis,** bladderworm of Taenia saginata, sec. through beef muscle with parasites in situ
Py3146t **Cysticercus bovis,** w.m. of bladderworm *
Py315d **Taenia solium,** human tapeworm, proglottids t.s.
Py3153i **Taenia solium,** scolex w.m. *
Py3154d **Taenia solium,** ova in faeces w.m.
Py3156f **Cysticercus cellulosae,** bladderworm of Taenia solium, section through pork muscle with parasites in situ
Py3157t **Cysticercus cellulosae,** w.m. of complete bladderworm *
Py3268f **Dipylidium caninum,** tapeworm of dogs and cats, immature proglottids w.m.
Py327f • **Dipylidium caninum,** mature proglottids w.m.
Py3271f **Dipylidium caninum,** gravid proglottids w.m.
Py3272t • **Dipylidium caninum,** w.m. of scolex with immature proglottids
Py3273k **Dipylidium caninum,** composite slide with whole mounts of scolex, immature, mature and gravid proglottids *
Py3275e • **Dipylidium caninum,** egg balls with 5 to 20 ova, w.m.
Py328f • **Moniezia expansa,** tapeworm of sheep, proglottids w.m.
Py3282t • **Moniezia expansa,** scolex with immature proglottids w.m.
Py3283k **Moniezia expansa,** composite slide with whole mounts of scolex, immature, mature and gravid proglottids *
Py329e **Taenia hydatigena,** tapeworm of dogs and predaceous animals, proglottids t.s.
Py3293f **Cysticercus tenuicollis,** bladderworm of T. hydatigena, sec. of scolex
Py330f • **Hymenolepis nana,** dwarf tapeworm of rats, proglottids w.m.
Py331d • **Hymenolepis nana,** ova from faeces w.m.
Py3341g **Hymenolepis diminuta,** w.m. of mature and gravid proglottids
Py3342e **Hymenolepis diminuta,** ova w.m.
Py3343g **Hymenolepis diminuta,** cysticercoid. W.m., larval stage
Py332i **Hymenolepis fraterna,** w.m. of entire tapeworm with scolex, immature, mature and gravid proglottids *
Py335h • **Echinococcus granulosus,** tapeworm of dogs, w.m. of complete tapeworm with scolex and proglottids. Selected and carefully stained specimens *
Py336f • **Echinococcus granulosus,** scolices from cyst, w.m.
Py337f • **Echinococcus granulosus,** cyst wall and scolices t.s.
Py338e **Echinococcus granulosus,** sterile cyst t.s.
Py339e **Echinococcus granulosus,** ova in faeces of dog w.m.
Py3392f **Echinococcus multilocularis,** cyst with scolices t.s.
Py344i **Diphyllobothrium latum,** tapeworm of fishes, scolex and immature proglottids w.m. *
Py345s **Diphyllobothrium latum,** mature proglottids w.m. *
Py346e **Diphyllobothrium latum,** t.s. of mature proglottids
Py347e **Diphyllobothrium latum,** ova w.m.
Py348v **Diphyllobothrium erinacei (mansoni),** dog and cat tapeworm, w.m., scolex and proglottids
Py349g **Diphyllobothrium erinacei.** W.m., mature proglottids
Py350e **Diphyllobothrium erinacei,** ova w.m.
Py352e **Taenia multiceps (Multiceps serialis),** dog tapeworm, sec. of bladderworm stage (Coenurus cerebralis) shows several scolices *
Py354g **Cysticercus fasciolarias**. sec. of rat liver with cyst of Taenia taeniaeformis.

Schistosoma mansoni, male and female in copula

NEMATHELMINTHES – ROUNDWORMS

Ne111d • **Ascaris megalocephala,** roundworm of horses, t.s. of adult female in region of sex organs
Ne112d • **Ascaris megalocephala,** t.s. of adult male in region of sex organs
Ne113d **Ascaris megalocephala,** t.s. in region of oesophagus showing the triradiate lumen
Ne121f • **Ascaris megalocephala embryology.** Sec. of uteri showing entrance and modification of sperm in ova
Ne122f • **Ascaris megalocephala embryology.** Sec. of uteri showing maturation stages (meiosis). Polar bodies can be seen.
Ne123f • **Ascaris megalocephala embryology.** Sec. of uteri showing ova with male and female pronuclei
Ne124f • **Ascaris megalocephala embryology.** Sec. of uteri showing early cleavage stages (mitosis)
Ne125f • **Ascaris megalocephala embryology.** Sec. of uteri showing later cleavage stages (mitosis)
Ne129d • **Ascaris lumbricoides,** roundworm of man, t.s. of adult female in region of gonads
Ne130d • **Ascaris lumbricoides,** t.s. of adult male in region of gonads
Ne1305e • **Ascaris lumbricoides,** t.s. of male and female in region of gonads
Ne1306d • **Ascaris lumbricoides,** t.s. in region of oesophagus
Ne131d • **Ascaris lumbricoides,** ova in faeces w.m.
Ne1312d **Ascaris lumbricoides,** infertile ova w.m.
Ne132e **Ascaris lumbricoides,** isolated muscle cells w.m.
Ne1323f **Ascaris lumbricoides,** larvae in sec. of pig lung
Ne235e **Toxocara,** roundworm of dogs, ova in faeces w.m.
Ne128f **Rhabditis,** a nematode living in earthworms, w.m. of ova showing cleavage stages
Ne135f • **Enterobius vermicularis (Oxyuris),** pin worm, w.m. of an adult specimen (male or female, our selection)
Ne1351g **Enterobius vermicularis,** w.m. of adult male *
Ne1352f **Enterobius vermicularis,** w.m. of adult female
Ne136c • **Enterobius vermicularis,** ova from faeces w.m.
Ne1362g **Enterobius vermicularis,** sec. through human appendix with parasites in situ
Ne137e **Strongyloides,** intestinal parasite worm, w.m.
Ne1373g • **Strongyloides,** filariform larvae w.m. (infective larvae) *
Ne1374g **Strongyloides,** sec. through host intestine with parasites
Ne1377g **Strongylus sp.,** lung worm, infected lung, sec.
Ne1378g **Strongylus sp.,** isolated larvae from faeces
Ne1392s • **Ancylostoma caninum,** dog hookworm, adult male w.m.
Ne1393s • **Ancylostoma caninum,** adult female w.m.
Ne1394u **Ancylostoma caninum,** adult male and female, two w.m. per slide *
Ne1395i **Ancylostoma caninum,** male and female in copula w.m. *
Ne1396e • **Ancylostoma caninum,** ova w.m.
Ne1397t **Ancylostoma caninum,** rhabditiform larvae w.m. *
Ne1398t **Ancylostoma caninum,** filariform larvae w.m. *
Ne143h • **Ancylostoma duodenale,** hookworm of man, adult male w.m. *
Ne144h • **Ancylostoma duodenale,** adult female w.m. *
Ne1445k **Ancylostoma duodenale,** w.m. of adult male and female per slide *
Ne145e **Ancylostoma duodenale,** t.s. of male and female
Ne146e • **Ancylostoma duodenale,** ova w.m.
Ne147h **Ancylostoma duodenale,** rhabditiform larvae w.m. *
Ne1472h **Ancylostoma duodenale,** filariform larvae w.m. *
Ne1491g **Ancylostoma braziliense,** South American hookworm, adult male w.m. *
Ne1492g **Ancylostoma braziliense,** adult female w.m. *
Ne1512v **Necator americanus,** adult male w.m. *
Ne1513v **Necator americanus,** adult female w.m. *
Ne1514f **Necator americanus,** eggs w.m.
Ne1515h **Necator americanus,** rhabditiform larvae. w.m. *
Ne1516h **Necator americanus,** filariform larvae. w.m. *
Ne152f **Heterakis spumosa,** intestinal parasite of rat, w.m. of male or female
Ne153f **Heterakis papillosa,** intestinal parasite of chicken, w.m. of male or female *
Ne163d • **Trichinella spiralis,** section of infected muscle with encysted larvae
Ne164e • **Trichinella spiralis,** w.m. of muscle piece with encysted larvae
Ne1642e **Trichinella spiralis,** calcified larva in muscles, w.m.
Ne1643f **Trichinella spiralis,** migrating in muscles, l.s.
Ne161t **Trichinella spiralis,** adult male from intestine, w.m. *
Ne162t **Trichinella spiralis,** adult female from intestine, w.m. *
Ne165g **Trichinella spiralis,** adults in section of infected intestine *
Ne154h **Trichuris trichiura,** whip worm, w.m. of adult male or female *
Ne155d • **Trichuris trichiura,** ova in faeces w.m.
Ne1551f **Trichuris trichiura,** sec. of infected colon showing the parasitic worms in situ
Ne156g **Trichostrongylus,** intestinal parasite, w.m. of adult male or female *
Ne231f **Oesophagostomum radiatum,** roundworm of cattle, w.m. of adult specimen *
Ne232f **Oesophagostomum columbianum,** roundworm of sheep, w.m. of adult specimen *
Ne234f **Haemonchus contortus,** stomach worm of cattle, w.m. of adult specimen
Ne158f • **Litomosoides carinii,** microfilaria, many specimen w.m.
Ne1585s **Dirofilaria immitis,** heartworm, smear of blood of dog with parasitic larvae
Ne1587k **Dipetalonema perstans,** smear of human blood with microfilariae
Ne1597g **Microfilaria,** smear from bird lung with parasites w.m. *
Ne159f • **Onchocerca volvulus,** sec. through host tissue with tumor containing larvae (filaria)
Ne1592h **Onchocerca volvulus,** w.m. of microfilaria from smear of tumor *
Ne138d • **Anguillula aceti,** vinegar eels, many stages of development in one slide, w.m.
Ne221d **Gordius,** a parasitic nematode living in insects, t.s. through the body
Ne222f **Gordius,** t.s. of infected insect showing the parasites in situ
Ne250d **Nemertinea,** non-parasitic marine species, t.s. in the region of proboscis
Ne170g • **Mixed ova** in faecal material. Slide containing eggs of parasitic worms of different species i.e. Ascaris, Ancylostoma, Trichuris, Taenia, Enterobius, Schistosoma etc. *

ACANTHOCEPHALA

At101e **Macracanthorhynchus hirudinaceus**, from pig, sec. of head embedded in intestine *
At103e **Macracanthorhynchus hirudinaceus**, ova w.m.

ANNELIDA – ANNELIDS and DIVERSE

An118e • **Nereis,** marine polychaete worm, w.m. of parapodium
An119d **Nereis,** t.s. of head for general study
An120f **Nereis,** t.s. of head showing brain and eye
An121d • **Nereis,** typical t.s. through the body for general study
An127d **Arenicola,** lugworm, t.s. through the body
An128f **Sabella,** a sessile marine polychaete, t.s. through the body in different levels
An130f **Magelona,** marine polychaete, larva w.m.
An122d • **Tubifex,** a fresh water oligochaete, w.m. of adult worm
An1264f **Trochophora-Larva,** w.m.
An1265g **Trochophora-Larva in metamorphosis,** w.m.
An124d • **Hirudo medicinalis,** medicinal leech, t.s. through the body for demonstrating general structures of a leech
An1240d **Hirudo medicinalis,** oral sucker, t.s.
An1241d **Hirudo medicinalis,** anterior end with ventral sucker, l.s.
An1242f **Hirudo medicinalis,** anterior end l.s. showing eye
An1243d **Hirudo medicinalis,** posterior end with large suctorial disc, l.s.
An123d **Haemopis sanguisuga,** horse leech, t.s. of the body
An1244f • **Leech,** small entire specimen stained and w.m. *
An131c • **Lumbricus terrestris,** earthworm, t.s. of body back of the clitellum. The Standard slide for general body structure, showing intestine, nephridia, typhlosole, etc. triply stained.
An132e **Lumbricus,** t.s. selected to show setae
An133c • **Lumbricus,** sagittal l.s. through three or more typical segments back of clitellum
An134c **Lumbricus,** region of mouth, t.s.
An135e **Lumbricus,** region of the cerebral ganglia, t.s.
An1352g **Lumbricus,** anterior end sagittal l.s. showing the cerebral and subpharyngeal ganglia
An136f **Lumbricus,** frontal l.s. through ventral nerve cord
An1365d **Lumbricus,** region of pharynx, t.s.
An137c **Lumbricus,** region of oesophagus t.s.
An1375d **Lumbricus,** region of hearts t.s.
An138c • **Lumbricus,** seminal vesicle t.s.
An1385d **Lumbricus,** seminal receptacle t.s.
An139e **Lumbricus,** sperm funnels t.s.
An140e **Lumbricus,** ovary with developing eggs t.s. *

An141f **Lumbricus,** testis t.s. *
An1415d • **Lumbricus,** crop t.s.
An142d **Lumbricus,** gizzard t.s.
An143c • **Lumbricus,** clitellum t.s.
An1435e **Lumbricus,** section selected to show nephridiopore
An1436h **Lumbricus,** nephridium dissected and w.m. *
An1437e **Lumbricus,** showing funnel of nephridia, t.s.
An144e • **Lumbricus,** anterior end including gonads, sagittal l.s.
An145g **Lumbricus,** anterior end, near median sagittal l.s. with the ventral nerve cord, oesophagus etc. *
An147e **Lumbricus,** 1st – 9th segment, sagittal l.s., mouth and oesophagus
An148e **Lumbricus,** 9th – 16th segment, sagittal l.s., sex organs
An149e **Lumbricus,** 16th – 23rd segment, sagittal l.s., crop and gizzard
An150d **Lumbricus,** blood smear
An151d **Lumbricus,** sperm smear
An1261d **Lineus sp.,** nemertine, proboscis t.s.
An1262d **Lineus sp.,** of middle region of body t.s.
An125d • **Sagitta**, arrow worm, entire specimen w.m.
An1252e **Sagitta**, l.s. of specimen

ONYCHOPHORA

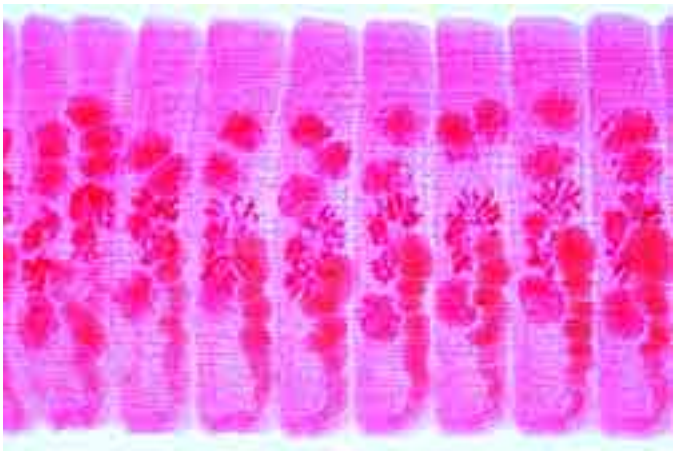
On111f **Peripatus**, connecting link between annelida and arthropoda, t.s. of anterior region with leg *
On112f **Peripatus**, region of gonads t.s. *
On113f **Peripatus**, region of head t.s. *
On114g **Peripatus**, anterior end sagittal l.s. *
On115g **Peripatus**, middle part of the body, sagittal l.s. *

ROTATORIA and BRYOZOA – ROTIFERS and MOSS ANIMALS

Ro111d • **Rotatoria,** rotifers, strewn slide of mixed species w.m.
Ro211e • **Plumatella,** moss animals, w.m. or section
Ro212d • **Plumatella,** isolated statoblasts w.m.
Ro213e • **Flustra foliacea,** a marine moss animal, section of colony
Ro215e **Flustrella hispida,** moss animal (sea-mat), section of colony
Ro214e • **Membraniphora,** marine moss animal (sea-mat), section of colony
Ro217e **Bugula,** moss animal, part of colony w.m.
Ro218e **Pectinatella,** moss animal, part of colony w.m.

CRUSTACEA – CRUSTACEANS

Cr111c • **Daphnia,** water flea, w.m.
Cr112c **Daphnia,** ephippia, w.m.
Cr1123c **Daphnia,** w.m. showing winter and summer eggs
Cr113c • **Cyclops,** fresh water copepods, w.m.
Cr114c • **Cyclops,** nauplius larva w.m.
Cr120c • **Small crustaceans,** mixed species of fresh water plankton strewn slide w.m.
Cr119d **Artemia salina,** brine shrimp, various developing stages on each slide, w.m.
Cr115d • **Balanus balanoides,** common barnacle, nauplius larva w.m.
Cr122d **Bosmina,** small crustacean w.m.
Cr126d **Bythotrephes,** a cladoceran w.m.
Cr128e **Caprella,** an amphipod w.m.
Cr117e • **Carcinus maenas,** crab, zoea larva w.m. *
Cr118e • **Carcinus maenas,** megalopa larva w.m. *
Cr124d **Cypris of Cirrepedia,** cocoon stage, w.m.
Cr116e **Gammarus,** fresh water amphipod, entire specimen w.m.
Cr160f **Shrimp,** entire small specimen w.m.
Cr161d • **Shrimp,** t.s. of small specimen for general study
Cr168d • **Lepas anatifera,** barnacle, w.m. of catching leg
Cr169e **Lepidurus apus,** branchipode, w.m.
Cr125d **Leptodora,** a large cladoceran w.m.
Cr167f **Lingula,** brachiopode, t.s.
Cr163e **Mysis,** shrimp from the Arctic ocean, w.m.
Cr123d **Podon and Evadne,** from marine plankton w.m.
Cr150f **Statocyst of prawn,** organ of equilibration with sensory hairs and statolith
Cr135d • **Astacus,** crayfish, striated muscle l.s., ideal for the demonstration of striation showing large structures
Cr132c • **Astacus,** gills t.s.
Cr142c **Astacus,** stomach t.s.
Cr134c • **Astacus,** intestine t.s.
Cr137c • **Astacus,** liver t.s.
Cr136c **Astacus,** green gland t.s.
Cr138d • **Astacus,** ovary t.s. with developing eggs
Cr139e • **Astacus,** testis t.s. with spermatogenesis
Cr1391g **Astacus,** testis t.s. specially selected for demonstration of meiosis and mitosis, carefully stained *
Cr144c **Astacus,** sperm duct t.s.
Cr131e **Astacus,** eye sagittal l.s. *

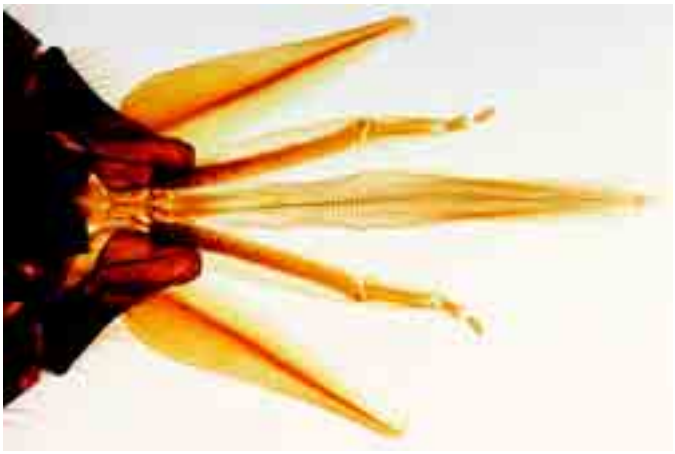


Hymenolepis nana, dwarf tapeworm of rats and mice, proglottids w.m.

Cr141f **Astacus,** cerebral ganglion t.s. *
Cr133d **Astacus,** antenna (decalcified) t.s.
Cr143e **Astacus,** pincers (decalcified) t.s.
Cr140d **Astacus,** blood smear
Cr1445e **Astacus,** t.s. of thoracic region of small specimen
Cr1446e **Astacus,** t.s. of abdominal region of small specimen
Cr1447f **Astacus,** near median sagittal l.s. of small specimen
Cr165s **Argulus foliaceus,** fish louse w.m. *

ARACHNIDA – CHELICERATES

Ar111e • **Spider,** entire young specimen, w.m.
Ar112b • **Spider,** leg with comb, w.m.
Ar113d • **Spider,** spinneret w.m.
Ar114d **Araneus,** cross spider, spinneret w.m.
Ar123e **Spider,** mouth parts of male w.m.
Ar124e **Spider,** mouth parts of female w.m.
Ar120f **Spider,** epigyne of adult female w.m. *
Ar125d **Spider,** sagittal l.s. of abdomen for general study
Ar126e **Spider,** sagittal l.s. of abdomen showing spinneret and spinning glands
Ar127e • **Spider,** sagittal l.s. of abdomen showing the book or trachea lung
Ar1272f • **Spider,** sagittal l.s. of abdomen with epigyne and ovary
Ar1273g • **Spider,** sagittal l.s. of abdomen showing l.s. of the dorsal vessel
Ar128f **Spider,** t.s. of cephalothorax showing the central nervous system
Ar1281f **Spider,** cephalothorax with central nervous system l.s.
Ar129g **Salticus,** spider, sec. of cephalothorax showing the telescope eyes *
Ar130b **Spider,** portion of cobweb w.m.
Ar171d **Opilio sp.,** shepherd spider, sagittal l.s. of the body
Ar172e **Opilio sp.,** mouth parts w.m.
Ar131c • **Scorpion,** t.s. through young specimen
Ar132d **Scorpion,** sagittal l.s. through young specimen
Ar133e • **Scorpion,** section selected to show the poison gland
Ar134e **Scorpion,** section selected to show the book lung
Ar138g **Scorpion,** entire young specimen w.m. *
Ar1545g **Amblyomma americanum,** lone star tick, w.m. *
Ar141g **Argas persicus,** fowl tick, w.m. of adult specimen *
Ar142f **Argas,** six-legged larva w.m.
Ar154s **Boophilus annulatus,** cattle tick, the vector of Texas fever, w.m. *
Ar156g **Dermacentor andersoni,** Rocky Mountain wood tick, the vector of spotted fever, w.m. *
Ar157e **Dermacentor andersoni,** ova w.m. *
Ar158f **Dermacentor andersoni,** larva w.m. *
Ar155s **Dermacentor variabilis,** American dock tick, w.m. *
Ar146g • **Ixodes sp.,** tick, w.m. of adult specimen *
Ar147e **Ixodes sp.,** larva w.m.
Ar144g **Ornithodorus,** tick, carrier of relapsing fever, w.m. adult *
Ar1442g **Ornithodorus,** six-legged larva w.m. *
Ar159s • **Rhipicephalus sanguineus,** brown dog tick, w.m. *
Ar153e • **Demodex folliculorum,** section through the skin with the parasites in situ
Ar145d • **Dermanyssus gallinae,** chicken mite, w.m. *
Ar1513d **Hydrachna,** mite of fresh water, w.m.
Ar1512d **Photia,** beetle mite, w.m.
Ar148e • **Sarcoptes scabiei (Acarus siro),** in section of diseased skin
Ar149f **Sarcoptes scabiei,** w.m. of adult specimen *
Ar1517g **Syringophilus,** parasitic mite of poultry, w.m.
Ar150c • **Tyroglyphus farinae,** mite from meal, w.m.
Ar151c **Tyrolichus,** cheese mite w.m.
Ar1515e • **Varroa,** parasitic mite of bees w.m.
Ar161g **Pseudoscorpion,** w.m. of entire specimen *
Ar180s **Limulus,** swordtail, trilobite larva w.m., the trilobite shaped larva is of interest for studies in phylogeny *



Apis mellifica, honey bee, mouth parts w.m.

MYRIAPODA – MYRIAPODS

My111d **Scolopendra,** large centipede, t.s. of body segment
My112e **Scolopendra,** head with poison glands t.s.
My115f **Lithobius,** head with poison fangs, w.m. *
My117e **Lithobius,** centipede, segment w.m.
My118e **Lithobius,** head, t.s.
My119d **Lithobius,** midbody, t.s.
My211d **Julus,** a millipede, t.s. through the body
My212e **Julus,** diplosegment with two pairs of legs, w.m.
My213f **Julus,** head with mouth parts (gnathochilarium) w.m. *
My218d **Glomeris,** sagittal l.s. of entire specimen *
My220g **Diplopode,** sagittal l.s. through young specimen showing the zone of proliferation (anamorphose) *
My221f **Julus,** millipede, accumulation of ocelli l.s. *
My225f **Scutigera**, simple compound eye of a pantopode, l.s. *
My230d **Symphyla,** entire specimen w.m. *

INSECTA – INSECTS

I. Microscopic anatomy and histology

Head and mouth parts, whole mounts

In111d • **Musca domestica,** house fly, head and mouth parts with sucking tube, w.m.
In112e • **Pieris sp.,** butterfly, head and mouth parts with proboscis w.m.
In1123d **Pieris sp.,** mouth parts of caterpillar (larva) w.m.
In121d **Bombyx mori,** silk moth, chewing mouth parts of adult w.m.
In1213d • **Bombyx mori,** silkworm, mouth parts of caterpillar (larva) w.m.
In122d • **Apis mellifica,** honey bee, mouth parts of worker w.m.
In123e **Apis mellifica,** rudimentary mouth parts of drone w.m.
In114e **Vespa vulgaris,** wasp, biting mouth parts of a carnivore, w.m.
In118f • **Periplaneta or Blatta,** cockroach, biting mouth parts of a herbivore, dissected and w.m.
In115f • **Carabus,** beetle, mouth parts dissected and w.m. *
In116f **Melolontha,** cockchafer, mouth parts dissected and w.m.
In113e **Gomphocerus,** grasshopper, mouth parts w.m.
In1132g **Gomphocerus,** grasshopper, mouth parts dissected and w.m.
In119d • **Formica sp.,** ant, head and mouth parts w.m.
In1193e **Leptinotarsa,** Colorado beetle, w.m. of chewing mouth parts
In131e **Curculionidae sp.,** weevil, head and mouth parts w.m.
In117e • **Pyrrhocoris,** bug, piercing sucking mouth parts w.m.
In120e **Stomoxys calcitrans,** stable fly, piercing sucking mouth parts
In1201e **Tabanus bovinus,** gadfly, piercing sucking mouth parts w.m. *
In1234d **Volucella,** Diptera, piercing sucking mouth parts w.m.
In124f • **Anopheles,** malaria mosquito, head and mouth parts of male w.m.
In125f • **Anopheles,** head and mouth parts of female w.m.
In126e • **Culex pipiens,** mosquito, head and mouth parts of male w.m.
In127e • **Culex pipiens,** head and mouth parts of female w.m.
In128h **Culex pipiens,** mouth parts of female, dissected and w.m. *
In130f **Odonata sp.,** dragonfly, mouth parts of larva w.m. *
In132e **Lymantria**, gipsy, mouth parts of larva w.m.
In1322f **Diving beetle**, head of larva w.m. Extraintestinal digestion *
In1323e **Simulium**, head of larva w.m. shows filtering mouth parts

Head and mouth parts, sections

In273e **Carausius**, sagittal l.s. of head with brain and mouth parts
In274e **Apis mellifica,** honey bee, sagittal l.s. of head with brain and mouth parts
In141e **Musca domestica,** house fly, mouth parts, t.s. through sucking tube
In148e **Apis mellifica,** honey bee, mouth parts of worker t.s.
In143e **Pieris brassicae,** butterfly. mouth parts t.s.
In149g **Culex pipiens,** mosquito, mouth parts of female t.s. with mandibles, labrum, maxillae, labium, hypopharynx
In142e **Tabanus bovinus,** gadfly, mouth parts t.s.
In144e **Hemiptera sp.,** bug, mouth parts t.s.
In145g **Aphaniptera sp.,** flea, piercing mouth parts t.s. *

Antennae

In213b • **Pieris,** butterfly, clubbed antenna w.m.
In206b • **Carabus,** ground beetle, filiform antenna w.m.
In203b • **Periplaneta or Blatta,** cockroach, setaceous antenna w.m.
In204b **Tenebrio molitor,** meal beetle, moniliform antenna w.m.
In214b • **Bombyx mori,** silk moth, feathered antenna w.m.
In208b **Chironomus,** gnat, feathered antenna of male w.m.
In205b **Elateridae sp.,** click beetle, serrate antenna w.m. *
In207b **Curculionidae sp.,** weevil, geniculate antenna w.m. *
In209c **Brachycera sp.,** fly, antenna as speed indicator w.m. *
In211b • **Melolontha,** cockchafer, laminate antenna with sensory organs
In212b • **Apis mellifica,** honey bee, antenna with sensory organs w.m.
In2125b **Musca domestica,** house fly, antenna w.m.
In2142c **Antennae** of butterfly (clubbed) and of moth (feathered) w.m.
In2146u **Insect antenna types,** composite slide of five kinds of antennae for comparison w.m.

Legs

In217b • **Musca domestica,** house fly, leg with pulvilli w.m.
In219b • **Pieris brassicae,** butterfly, walking leg w.m.
In220c **Melolontha,** cockchafer or other species, digging leg w.m.
In215b • **Apis mellifica,** honey bee, anterior leg with eye brush w.m.
In2152b **Apis mellifica,** middle leg w.m.
In216b • **Apis mellifica,** posterior leg with pollen basket w.m.
In2161b **Apis mellifica,** posterior leg of drone w.m.
In2162f **Apis mellifica,** composite slide of anterior, middle and posterior leg of worker, w.m.
In218b • **Bombyx mori,** silkworm, abdominal foot of caterpillar
In223c **Gomphocerus,** grasshopper, stridulary organ w.m. of leg
In224d **Ensifera sp.**, locust or cricket, anterior leg with tympanal organ w.m. *
In225d **Mantis religiosa,** praying mantis, grasping leg of larva w.m. *
In226b **Diving beetle or water bug,** swimming leg w.m.

Wings

In235b • **Musca domestica,** house fly, wing w.m.
In2351d **Musca domestica,** house fly, wing and haltere w.m.
In231c • **Apis mellifica,** honey bee, anterior and posterior wings w.m.
In234b • **Culex pipiens,** common mosquito, wing w.m.
In2342b **Anopheles,** malaria mosquito, wing w.m.
In228c **Chrysopa perla,** wing of neuroptera w.m. *
In227c **Zygoptera sp.,** damselfly, wings w.m.
In229e **Periplaneta,** cockroach, upper chitinous and lower membranous wings w.m.
In2292d **Gomphocerus,** grasshopper, w.m. of upper and lower wing
In2352d **Forficula,** earwig, w.m. of upper and lower wing
In230d **Ensifera sp.,** locust or cricket, wing with stridulary organ w.m. *
In232b • **Pieris brassicae,** butterfly**,** portion of wing showing arrangement of scales w.m.
In233b **Pieris brassicae,** butterfly, isolated scales w.m.
In2332e **Butterfly,** Brasilian species (Morpho sp.), w.m. of wing portion showing scales opaque
In2334d **Lepisma,** silverfish, w.m. of scales from body

Cytology

In238f • **Spermatogenesis with meiotic and mitotic stages**, sec. of testis of Carausius, grasshopper, carefully stained
In245f • **Giant chromosomes**, smear from salivary gland of Chironomus, carefully fixed and stained *
In2451e **Giant chromosomes** in section through the salivary glands of the Chironomus larva
In246f **Striated muscles** of insect, fibres isolated and stained to show the striations w.m.
In247e • **Striated muscles** of insect, sections through insect thorax with t.s. and l.s. of muscle showing the striations

Organs of metabolism

In241b • **Trachea** from insect, w.m. showing tracheal rings
In242c • **Spiracle** from insect (stigma), w.m.
In248d • **Tracheal gills,** w.m. of Cloeon sp., May fly nymph
In298c **Tracheal gills of larva,** w.m. of Odonata sp., dragonfly
In285d **Rectum** of larva, respiratory organ, t.s. of Odonata sp., dragonfly
In2852d **Air tubes** of pupa of Culex, mosquito, w.m.
In2411h **Trachea in insect intestine**, specially prepared and stained with cupric sulphide to show the finest branchings *
In289e **Blood smear** with different kinds of blood cells, Carausius

In254d • **Abdomen of worker** with intestine, Apis mellifica, t.s.
In270d • **Abdomen with internal organs**, t.s. of Carausius, walking stick
In263d **Abdomen**, t.s. Culex pipiens
In266d **Abdomen**, t.s. of Drosophila, fruit fly
In281d **Gizzard**, t.s. of Carabus, ground beetle
In2813e **Opened gizzard**, w.m. Locusta, grasshopper
In239e • **Gizzard with chitinous teeth**, w.m. of Periplaneta, cockroach
In282d **Chyle** and middle intestine with Malpighian tubules, l.s. of Periplaneta (Blatta)
In284d • **Rectum with ampulli**, t.s. of Periplaneta
In287g **Fat body** stained with osmic acid, sec. of Periplaneta, cockroach
In288d **Fat body** with crystals of uric acid, sec. of Periplaneta, cockroach
In283d **Appendages of chyle and Malpighian tubules,** thin t.s. for finer detail

Reproductive system

In255e • **Testis**, in t.s. of abdomen of drone, Apis mellifica
In256e • **Ovary**, in t.s. of abdomen of queen, Apis mellifica
In236e **Ovary**, in t.s. of Melolontha, cockchafer
In2365e **Ovary**, in t.s. of abdomen of Carausius, walking stick
In2367g **Aedeagus** of beetle w.m., male copulating organ
In290f **Ovary** of insect showing panoistic egg tubules, l.s.
In291f **Ovary** of insect showing telotrophic egg tubules, l.s.
In292f **Ovary** of insect showing polytrophic egg tubules, l.s.
In299e **Ovipositor** of locust or cricket t.s.
In2912e **Incomplete metamorphosis** of insects: larva
In2913e **Incomplete metamorphosis** of insects: imago (adult)
In2914d **Complete metamorphosis** of insects: larva
In2915d **Complete metamorphosis** of insects: pupa
In2916d **Complete metamorphosis** of insects: imago (adult)

Sense organs and nervous system

In243c **Cornea,** isolated from eye of house fly, w.m. showing facets
In2434c • **Cornea,** isolated from eye of honey bee, w.m. showing facets
In251e • **Compound eye,** t.s. through head of worker (Apis mellifica), showing the structure of the typical insect eyes and brain. Ommatidia are seen.
In252f **Compound eye,** t.s. through head showing the large eyes of drone (Apis mellifica)
In253f **Compound eye,** t.s. through head of queen (Apis mellifica)
In249d **Ocelli** of Apis mellifica, honey bee, w.m.
In2492e **Ocelli** of an insect, l.s.
In275e **Compound eye,** t.s. through head of Apis mellifica, tangential section showing t.s. of ommatidia
In261e **Head with eyes and brain,** t.s. of Culex pipiens, mosquito
In265e **Head with eyes and brain,** t.s. of Drosophila, fruit fly
In2675e **Compound eye ,** t.s. of Musca domestica, fly
In276f **Head and eyes,** t.s. of Cloeon or Baetis, May fly
In2765f **Head and eyes**, t.s. of Melolontha, cockchafer
In271e **Brain,** frontal l.s. of Carausius or Gryllus
In272e **Brain,** frontal l.s. of Vespa vulgaris, wasp
In277h **Pars intercerebralis** with neurosecretory cells specially stained, Carausius, walking stick, section of brain *
In278h **Corpora cardiaca,** organs for storing neurosecretes, Carausius, section through brain *
In2781h **Corpora allata,** neuroendocrine glands, Carausius, section *
In2784f **Sensory organs** in the antenna of an insect, t.s. for finer detail
In279k **Johnston's organ,** l.s. through insect auditory organ *
In294f **Luminous organ,** sec. of Phausis, glowworm
In295e **Stridulary organ,** sec. of Cicada sp. *
In2833f **Insect larva** with non-centralized nervous system, sagittal l.s. *
In2834f **Insect** with low centralized nervous system, sagittal l.s. *
In2835f **Insect** with high centralized nervous system, sagittal l.s. *

Miscellaneous

In244d • **Sting and poison sac** of honey bee, w.m.
In260c • **Wax plate** of worker of Apis mellifica, w.m.
In237d • **Silk spinning glands** and other organs, t.s. of caterpillar of Bombyx mori, silkworm
In2943d **Forceps of male** of Forficula, earwig, w.m.
In258d • **Larva** of Apis mellifica, sagittal l.s.
In259e • **Pupa** of Apis mellifica, sagittal l.s.
In262d **Thorax** of Culex pipiens, t.s.
In267f • **Entire insect,** sagittal l.s. of Drosophila, fruit fly, showing all structures for general study
In2993e **Parasitical larvae of microgaster**, in t.s. of infested caterpillar

II. Whole mounts of entire insects

Apterygota and Ephemeroidea

In348d • **Collembola**, spring tail, adult w.m.
In3985d • **Podura,** spring tail, adult w.m.
In3986d **Thysanura sp.,** bristle tail, adult w.m.
In353e • **Caenis,** May fly, adult w.m.
In354e **Caenis,** subimago w.m.
In355d **Caenis,** larva w.m.

Diptera

In321f • **Culex pipiens,** common mosquito, adult male w.m.
In322f • **Culex pipiens,** adult female w.m.

Periplaneta, cockroach, wings

In323d • **Culex pipiens,** pupa w.m.
In324d • **Culex pipiens,** larva w.m.
In3242d • **Culex pipiens,** ova w.m.
In316g • **Anopheles,** malaria mosquito, adult male w.m.
In317g • **Anopheles,** adult female w.m.
In318f • **Anopheles,** pupa w.m.
In319f • **Anopheles,** larva w.m.
In3192e • **Anopheles,** ova w.m.
In320g **Anopheles and Culex pipiens,** both the larvae on same slide for comparison, w.m.
In311d • **Drosophila,** fruit fly, adult male w.m.
In312d • **Drosophila,** adult female w.m.
In313d **Drosophila,** larva w.m.
In314d **Drosophila,** pupa w.m.
In387e **Chironomus,** gnat, w.m. of adult
In340d • **Chironomus,** gnat, larva w.m.
In341d **Corethra,** gnat, larva w.m.
In389f **Aedes,** mosquito, adult male w.m.
In390f **Aedes,** adult female w.m.
In391e **Aedes,** pupa w.m.
In392e **Aedes,** larva w.m.
In393e **Aedes,** ova w.m.
In397e **Musca domestica,** house fly, larva w.m.
In398d **Musca domestica,** ova w.m.
In394f **Phlebotomus,** carrier of Leishmaniosis, male mosquito w.m. *
In395f **Phlebotomus,** female mosquito w.m. *
In3956f **Culicoides,** w.m., a small vicious biter
In3957f **Gasterophilus intestinalis,** horse bot fly, eggs attached to hair
In3294f **Lipoptena,** deer ked, w.m. *

Aphaniptera

In3341e • **Ctenocephalus canis,** male or female specimen w.m.
In333e **Ctenocephalus canis,** dog flea, adult male w.m.
In334e **Ctenocephalus canis,** adult female w.m.
In3365g **Pulex irritans,** human flea, adult male w.m. *
In3366g **Pulex irritans,** adult female w.m. *
In335g **Xenopsylla cheopis,** rat flea, the carrier of bubonic plague, adult male w.m.
In336g **Xenopsylla cheopis,** adult female w.m.
In337e **Nosopsyllus fasciatus,** rat flea, adult w.m.
In343e **Ceratophyllus gallinulae,** chicken flea, w.m. of adult

Blattoidea and Hymenoptera

In365g **Mantis religiosa,** praying mantis, larva w.m. *
In367f **Isoptera sp.,** termite, w.m. of worker *
In368f **Isoptera sp.,** termite, w.m. of soldier
In315d • **Lasius,** ant, worker w.m.
In3151e **Lasius,** winged male w.m.
In3152d **Lasius,** winged female w.m.
In385e **Chalcididae,** w.m. of adult *

Anoplura and Mallophaga

In325f • **Pediculus humanus,** louse, adult male or female w.m.
In3252f **Pediculus humanus capitis,** human head louse, adult w.m.
In3254f **Pediculus humanus capitis,** nymph w.m.
In3255e **Pediculus humanus capitis,** ova w.m.
In3256f **Pediculus humanus corporis,** human body louse, adult w.m.
In3258f **Pediculus humanus corporis,** nymph w.m.
In3259e **Pediculus humanus corporis,** ova w.m.
In326g **Phthirus pubis,** human crab louse, adult w.m. *
In3262s **Phthirus pubis,** ova w.m.
In327e • **Louse eggs attached to the hair,** w.m. *
In328f • **Haematopinus suis,** pig louse, adult w.m. *
In3282e **Haematopinus suis,** ova w.m.
In3284f **Haematopinus eurysternus,** cattle louse, adult w.m. *
In329f **Haematopinus piliferus,** dog louse, adult w.m. *
In3271g **Bovicola,** cattle louse, w.m. *
In3275f **Trichodectes canis,** dog louse, w.m. *

Asterias rubens, starfish, arm t.s.

In3272f • **Lipeurus variabilis,** wing feather louse, w.m. *
In3273f **Lipeurus caponis,** wing louse, w.m. *
In3274f • **Menopon gallinae,** bird parasite, w.m. *
In3276f **Melophagus ovinus,** wingless ectoparasite on sheep, w.m. *
In381e **Phthiraptera,** lice from rat, different species w.m. *

Heteroptera and Homoptera

In330f • **Cimex lectularius,** bed bug, adult w.m.
In374d **Naucoridae sp.,** water bug, w.m. of small adult
In375d **Capsidae sp.,** plant bug, w.m. of adult
In339c • **Aphidae sp.,** plant lice, w.m. of several per slide
In3394e **Phylloxera sp.,** vine louse, w.m.
In377d **Psylla,** plant flea, w.m. of adult

Diverse orders

In338d **Lepidoptera sp.,** butterfly, young caterpillar w.m.
In356d **Nemura sp.,** stone fly, adult w.m.
In357d **Nemura sp.,** larva w.m.
In361g **Embia sp.,** adult w.m. *
In362e **Forficula auricularia,** earwig, adult w.m.
In371d **Thysanoptera,** thrips, w.m. of adult

MOLLUSCA – MOLLUSKS

Mo111e • **Chiton,** a primitive mollusc, t.s. through the body
Mo112e **Chiton,** sagittal l.s. through the entire specimen
Mo116e • **Mya arenaria,** clam, t.s. of entire young specimen
Mo117d **Mya arenaria,** liver t.s.
Mo119d • **Mya arenaria,** t.s. and l.s. of gills showing well developed ciliated epithelium
Mo120d **Mya arenaria,** t.s. of intestine and gonads
Mo121d **Mya arenaria,** adductor muscle of shell, l.s.
Mo122d **Mya arenaria,** siphonal tube t.s.
Mo123f **Mya arenaria,** mussel, filtering stomach t.s. *
Mo191d **Anodonta,** mussel, small specimen, complete t.s.
Mo192d **Anodonta,** gills w.m.
Mo193d **Anodonta,** gills l.s.
Mo194d **Anodonta,** intestinal region t.s.
Mo195d **Anodonta,** liver t.s.
Mo196d **Anodonta,** glochidia (larvae) w.m.
Mo1131e **Mussel embryology (**Lamellibranchiata, Bivalvia or Pelecypoda). Unfertilized and fertilized ova w.m. *
Mo1133e **Mussel embryology.** Zygote, two- and four-cell embryos w.m. *
Mo1135s **Mussel embryology.** Early zygote through late cleavage. Polar bodies, polar lobes and spiral cleavage
Mo1137e **Mussel embryology.** Blastula w.m. *
Mo1138e **Mussel embryology.** Gastrula w.m. *
Mo1139f **Mussel embryology.** Trochophore larva w.m. *
Mo1141s **Mussel embryology.** Veliger larvae developing, early and later stages w.m. *
Mo1143e **Mussel embryology.** Adult veliger larva w.m. *
Mo115e • **Mussel embryology.** Glochidia larva w.m.
Mo123e **Pisidium,** a small fresh water mussel, section with embryos
Mo131e • **Pecten,** clam, eye in section of mantle margin
Mo185f **Haliotis,** marine snail, l.s. of a simple pinhole camera eye *
Mo187e **Patella,** cup-shell. simple eye, l.s.
Mo211f **Patella,** trochophora larva w.m. *
Mo212e **Crepidula,** marine snail, veliger larva w.m. *
Mo125f • **Alloteuthis,** cuttlefish, entire young specimen stained and w.m. *
Mo130e **Alloteuthis,** abdomen of young specimen, t.s.
Mo1301f • **Alloteuthis,** entire young specimen, l.s. for general study
Mo126e **Alloteuthis,** eye l.s.
Mo127d **Alloteuthis,** tentacles t.s.
Mo1275f **Alloteuthis,** gill heart and ink sac, l.s.
Mo128d **Alloteuthis,** fin t.s.
Mo129d **Alloteuthis,** tail t.s.
Mo141c • **Sepia officinalis,** cuttlefish, skin with chromatophores, w.m. of piece
Mo142c **Sepia officinalis,** skin with chromatophores, horizontal section
Mo143f **Sepia officinalis,** sec. through the ganglion showing giant nerve fibres
Mo132d • **Octopus,** cuttlefish, section through sucking tube
Mo151d • **Snail,** typical t.s. of small specimen for general study
Mo1515e **Snail,** typical l.s. of small specimen for general study
Mo152d • **Snail,** sagittal l.s. through the head showing the radula in situ
Mo153e **Snail,** radula w.m.
Mo161c • **Helix pomatia,** snail, foot sagittal l.s.
Mo162c **Helix pomatia,** mantle margin sagittal l.s.
Mo163c **Helix pomatia,** oesophagus t.s.
Mo164c • **Helix pomatia,** stomach and glands t.s.
Mo165c **Helix pomatia,** intestine t.s.
Mo166c • **Helix pomatia,** liver t.s.
Mo167d **Helix pomatia,** albumen gland t.s.
Mo168d • **Helix pomatia,** hermaphrodite gland (ovotestis), with ova and spermatozoa, t.s.
Mo169d **Helix pomatia,** spermoviduct t.s.
Mo170d **Helix pomatia,** crystalline style and glands, t.s.
Mo171c **Helix pomatia,** penis t.s.
Mo172c **Helix pomatia,** flagellum t.s.
Mo173d • **Helix pomatia,** kidney and heart during the summer, t.s.
Mo174d **Helix pomatia,** kidney and heart during the winter, t.s.
Mo175c • **Helix pomatia,** lung t.s.
Mo176f • **Helix pomatia,** eye l.s.

ECHINODERMATA – ECHINODERMS

Ec111f • **Asterias,** starfish, young entire specimen w.m. *
Ec113d • **Asterias,** arm t.s., digestive gland and tube feet are shown for general study of all details
Ec114e **Asterias,** horizontal l.s. of entire young specimen
Ec115e **Asterias,** sagittal l.s. of entire young specimen
Ec117d • **Asterias,** pedicellaria w.m.
Ec251d **Starfish embryology** (Asterias), ovary t.s. showing large ova in different developing stages
Ec252d **Starfish embryology,** testis t.s. with developing sperm
Ec254e **Starfish embryology,** sperm smear w.m.
Ec116e • **Asterias,** bipinnaria larva w.m. *
Ec1162f **Asterias,** brachiolaria larva w.m. *
Ec101h **Asterina gibbosa,** small starfish, entire specimen carefully stained and w.m. for general study
Ec102e **Asterina gibbosa,** stages of development w.m.
Ec103e **Asterina gibbosa,** horizontal l.s. of small specimen showing gonads
Ec131d **Ophiura,** serpent star, arm t.s.
Ec132d **Ophiura,** base of arm showing bursa and gonads, t.s.
Ec133d **Ophiura,** horizontal l.s. of disc
Ec137f **Ophiura,** ophiopluteus larva w.m. *
Ec118d • **Echinus,** sea urchin, sagittal l.s. of entire young specimen
Ec1183d **Echinus,** sea urchin, radial sec. of entire young specimen
Ec1184d **Echinus,** pedicellaria, w.m.
Ec1186f **Echinus,** sea urchin, t.s. of spine, ground thin *
Ec121e **Asterioidea sp.,** larva in metamorphosis w.m. *
Ec141d **Cucumaria,** sea cucumber, t.s. of small specimen showing the typical structures
Ec145e **Holothurioidea sp.,** microsclerites w.m.
Ec147f **Holothurioidea sp.,** larva w.m. *
Ec201d • **Sea urchin embryology** (Psammechinus miliaris), unfertilized ova w.m.
Ec202d • **Sea urchin embryology,** fertilized ova w.m.
Ec203d • **Sea urchin embryology,** two cell stage w.m.
Ec204d • **Sea urchin embryology,** four cell stage w.m.
Ec205d • **Sea urchin embryology,** eight cell stage w.m.
Ec206d • **Sea urchin embryology,** sixteen cell stage w.m.
Ec207d • **Sea urchin embryology,** thirty two cell stage w.m.
Ec208d • **Sea urchin embryology,** morula w.m.
Ec209d • **Sea urchin embryology,** blastula w.m.
Ec210d • **Sea urchin embryology,** beginning gastrulation w.m.
Ec211d • **Sea urchin embryology,** progressive gastrulation w.m.
Ec212d • **Sea urchin embryology,** pluteus larva w.m.
Ec213e **Sea urchin embryology,** strewn slide of various stages w.m.
Ec255e **Starfish embryology,** germinal vesicle stage w.m.
Ec256e **Starfish embryology,** unfertilized ova w.m.
Ec257e **Starfish embryology,** fertilized ova w.m., zygote with polar bodies
Ec258e **Starfish embryology,** two cell stage w.m.
Ec259e **Starfish embryology,** four cell stage w.m.
Ec260e **Starfish embryology,** eight cell stage w.m.
Ec261e **Starfish embryology,** sixteen cell stage w.m.
Ec263e **Starfish embryology,** thirty-two cell stage w.m.
Ec264e **Starfish embryology,** sixty-four cell stage or morula, w.m.
Ec267e **Starfish embryology,** early and late blastula w.m.
Ec268e **Starfish embryology,** early and late gastrula w.m.
Ec271f **Starfish embryology,** early bipinnaria larva w.m.
Ec272f **Starfish embryology,** late bipinnaria larva w.m.
Ec276s **Starfish embryology,** brachiolaria larva w.m.
Ec278s **Starfish embryology,** young starfish w.m.

ENTEROPNEUSTA

Ep111g **Balanoglossus,** acorn worm, sagittal section of proto- and mesosoma *
Ep114f **Balanoglossus,** region of gills, t.s. *
Ep115f **Balanoglossus,** region of gonads, t.s. *
Ep116f **Balanoglossus,** region of liver, t.s. *
Ep117f **Balanoglossus,** abdominal region, t.s. *
Ep130f **Balanoglossus,** tornaria larva w.m. *

TUNICATA – ASCIDIANS

Tu105g **Ascidia,** sea squirt, swimming tadpole w.m. *
Tu106g **Ascidia,** sea squirt, early metamorphosis w.m. *
Tu107g **Ascidia,** sea squirt, late metamorphosis w.m. *
Tu111d **Ascidia,** sea squirt, adult specimen, t.s. in region of gills
Tu112d **Ascidia,** sea squirt, adult specimen, t.s. in region of stomach
Tu121e **Ascidia,** t.s. of mantle to show animal cellulose
Tu114e **Clavellina,** tunicate, l.s. of a small specimen
Tu1142d **Clavellina,** t.s. of gill – intestine region
Tu1143d **Clavellina,** t.s. of stomach – intestine region
Tu116f **Botryllus schlosseri,** tunicate colony, w.m.
Tu117d **Botryllus,** a synascidian, t.s. of colony
Tu118e **Botryllus,** thin l.s. for fine detail
Tu119e **Botryllus,** thick l.s. for general structures
Tu211f **Salpa,** asexual form w.m. *
Tu212f **Salpa,** sexual form w.m. *
Tu131e **Kowalewskaia** or Oikopleura (class Appendicularia), w.m.
Tu214f **Phoronis,** Actinotrocha-larva, w.m.

ACRANIA – CEPHALACORDATES

Ac101f • **Branchiostoma** lanceolatum (Amphioxus), w.m. of entire specimen for general body structure, carefully stained
Ac103d • **Branchiostoma,** typical t.s. for general study, shows gills, liver and gonads, the standard slide
Ac105d • **Branchiostoma,** t.s. selected to show male gonads
Ac106d • **Branchiostoma,** t.s. selected to show female gonads
Ac107d **Branchiostoma,** mouth region t.s.
Ac108d **Branchiostoma,** anterior pharynx showing gills and notochord t.s.
Ac109d **Branchiostoma,** posterior pharynx showing liver t.s.
Ac110d • **Branchiostoma,** region of intestine t.s.
Ac111d **Branchiostoma,** region of tail t.s.
Ac113d **Branchiostoma,** sagittal l.s. of the body
Ac1135e **Branchiostoma,** frontal section through the spinal cord
Ac1142d **Branchiostoma,** t.s. showing light-sensitive pigment cells
Ac1143f **Branchiostoma,** head region, median l.s.
Ac115f **Branchiostoma,** young larva w.m. *
Ac117s **Branchiostoma** composite slide, showing t.s. through the regions of mouth, pharynx, intestine, and tail
Ac151g **Branchiostoma embryology,** unfertilized ova w.m. *
Ac156k **Branchiostoma embryology,** two to sixteen cell stages, w.m. *
Ac159g **Branchiostoma embryology,** thirty-two and sixty-four cells w.m. *
Ac162g **Branchiostoma embryology,** blastula stage w.m. *
Ac164g **Branchiostoma embryology,** gastrula stage w.m. *
Ac166g **Branchiostoma embryology,** early larva w.m. *
Ac168g **Branchiostoma embryology,** late larva w.m. *

PISCES – FISHES

Cyclostomata – Yawless fishes

Pi1271h **Ammocoetes,** lamprey, larva small specimen w.m. *
Pi1273f **Ammocoetes,** region of head t.s.
Pi1274f **Ammocoetes,** region of pharynx t.s.
Pi1275f **Ammocoetes,** region of abdomen t.s.
Pi1276f **Ammocoetes,** region of tail t.s.
Pi120d **Petromyzon,** lamprey, head t.s.
Pi121d • **Petromyzon,** region of gills t.s.
Pi122d • **Petromyzon,** region of abdomen t.s.
Pi123c **Petromyzon,** region of tail t.s.
Pi124g **Petromyzon,** region of head and gills, horizontal l.s. *
Pi1252f **Petromyzon,** chorda l.s.
Pi1253f **Petromyzon,** chorda t.s.
Pi1254c **Petromyzon,** intestine, t.s.
Pi1255d **Petromyzon,** region of mouth t.s.
Pi1256c **Petromyzon,** kidney t.s.
Pi1257d **Petromyzon,** ovary t.s.
Pi1258f **Petromyzon,** brain t.s.
Pi1259d **Petromyzon,** chorda and spinal cord, t.s.

Selachii – Cartilaginous fishes

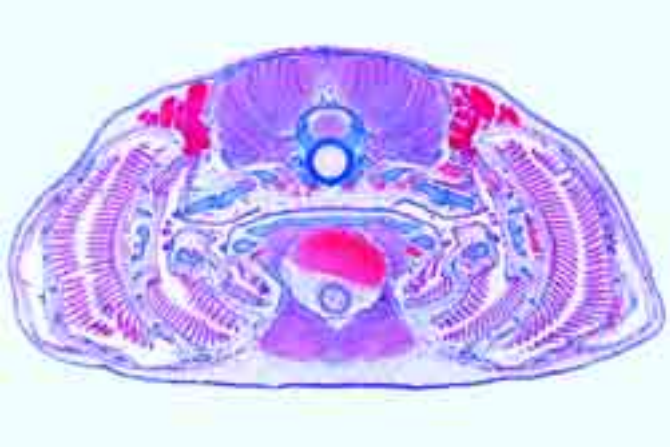
Pi109g **Scyllium,** dogfish, horizontal l.s. through region of head and gills of entire young specimen *
Pi1095f • **Scyllium,** region of head, t.s.
Pi110f **Scyllium,** gill arch t.s.

Branchiostoma, Amphioxus, t.s. of body

Pi111f • **Scyllium,** dogfish, t.s. in region of thorax and gills of entire young specimen
Pi112f • **Scyllium,** dogfish, t.s. in region of abdomen, with spiral intestine and liver
Pi113d **Scyllium,** t.s. of fin
Pi114d **Scyllium,** t.s. in region of tail
Pi115d • **Scyllium,** skin with placoid scales, vertical l.s.
Pi1152f **Scyllium,** skin with placoid scales, w.m.
Pi1153f **Scyllium,** yaw with developing tooth t.s.
Pi1154f **Scyllium,** brain l.s.
Pi1155f **Scyllium,** olfactory epithelium, t.s.
Pi1156f **Scyllium,** lateral line organ t.s.
Pi116d **Scyllium,** cartilage t.s.
Pi117e • **Scyllium,** vertebral column with spinal cord and notochord, t.s.
Pi118g **Scyllium,** heart sagittal l.s. *
Pi119g **Scyllium,** brain sagittal l.s. *
Pi169e **Torpedo marmorata,** electric ray, t.s. of electric organ

Teleostei – Bony fishes

Pi130g **Fresh water fish (**small specimen), entire sagittal l.s.
Pi131d **Fresh water fish,** mouth region t.s.
Pi132e • **Fresh water fish,** head and eyes t.s.
Pi1325f • **Fresh water fish,** head with brain sagittal l.s
Pi133d • **Fresh water fish,** region of gills t.s.
Pi134d • **Fresh water fish,** region of heart t.s.
Pi135d **Fresh water fish,** abdominal region showing kidney, liver and intestine t.s.
Pi136d • **Fresh water fish,** region of gonads t.s.
Pi137c **Fresh water fish,** region of tail t.s.
Pi138f **Fresh water fish,** horizontal l.s. through head and gills
Pi139f **Fresh water fish,** retina adapted to darkness, t.s. of head
Pi1392f **Fresh water fish,** retina adapted to brightness, t.s. of head
Pi140e **Fresh water fish,** sec. of eye showing horizontal section of the retina
Pi141f **Fresh water fish,** heart sagittal l.s.
Pi160c • **Cyprinus,** gills t.s.
Pi157d **Cyprinus,** heart l.s.
Pi162c • **Cyprinus,** blood smear
Pi164d **Cyprinus,** pronephros (head kidney) t.s.
Pi155c • **Cyprinus,** stomach t.s.
Pi154c • **Cyprinus,** small intestine t.s.
Pi151c **Cyprinus,** carp, liver t.s.
Pi156c **Cyprinus,** pancreas t.s.
Pi158c **Cyprinus,** air bladder t.s.
Pi159c **Cyprinus,** kidney t.s.
Pi153c • **Cyprinus,** ovary t.s.
Pi152c • **Cyprinus,** testis t.s.
Pi161d **Cyprinus,** brain t.s.
Pi163c • **Cyprinus,** skin vertical l.s.
Pi165d • **Cyprinus,** barb (tactile organ) t.s.
Pi1652f **Cyprinus,** t.s. of lateral line organ. The organ of balance *
Pi1661d **Trutta,** trout, heart l.s.
Pi1662c **Trutta,** gills t.s.
Pi1663c **Trutta,** kidney t.s.
Pi1664d **Trutta,** testis t.s.
Pi1665e **Trutta,** brain l.s., routine stained
Pi1666f **Trutta,** brain l.s., silvered
Pi1667f **Trutta,** brain, t.s. of 3 regions (Bulbi olfactorii, Tectum opticum, Cerebellum)
Pi1668d **Trutta,** vertebral column and spinal cord, t.s.
Pi1671c **Gasterosteus,** stickleback, gills w.m.
Pi1672e **Gasterosteus,** eye, radial l.s.
Pi1674c **Gadus,** codfish, brain t.s.
Pi180d **Pleuronectes,** flounder, skin with chromatophores w.m.
Pi181e **Syngnathus or Hippocampus,** sea horse, t.s. showing the aglomerulous kidney
Pi182d **Fish,** t.s. of jaw showing teeth
Pi183f **Lebistes**, fish, organ of equilibration with macula t.s.
Pi1265d **Anguilla vulgaris,** eel, young specimen t.s.
Pi171b • **Cycloid scales** w.m.



Scyllium, dogfish, t.s. in region of thorax and gills of entire young specimen

Pi172b • **Ctenoid scales** w.m.
Pi173b • **Placoid scales** w.m.
Pi174e **Ganoid (rhomboid) scales** w.m. *
Pi175f **Fish scales** composite slide, shows cycloid, ctenoid and placoid scales on one slide, w.m.

AMPHIBIA – AMPHIBIANS

Am1021d **Amphiuma,** Congo eel, blood smear
Am1022d **Amphiuma,** heart t.s.
Am1023d **Amphiuma,** artery t.s.
Am1025d **Amphiuma,** lung t.s.
Am1027d **Amphiuma,** oesophagus t.s.
Am1028d **Amphiuma.** stomach t.s.
Am1029d **Amphiuma,** small intestine t.s.
Am1031d **Amphiuma,** large intestine t.s.
Am1033d **Amphiuma,** liver t.s.
Am1034d **Amphiuma,** spleen t.s.
Am1036d **Amphiuma,** ovary t.s.
Am1037d **Amphiuma,** oviduct t.s.
Am1039d **Amphiuma,** testis t.s.
Am1041d **Amphiuma,** urinary bladder t.s.
Am1043d **Amphiuma,** skin vertical l.s.
Am121e • **Salamandra** larva, serial sections from selected material to show mitotic stages in the skin and in other organs
Am111e **Salamandra** larva, head with eyes t.s.
Am112d • **Salamandra** larva, region of external gills t.s.
Am113d **Salamandra** larva, region of thorax and legs t.s.
Am114d **Salamandra** larva, region of abdomen t.s.
Am115c **Salamandra** larva, region of tail t.s.
Am141d • **Salamandra,** t.s. of liver for demonstration of typical animal cells with nuclei, cytoplasm and cell membranes
Am146e • **Salamandra,** testis t.s., usually many meiotic and mitotic stages can be observed
Am131d • **Salamandra,** skin with poison glands, vertical l.s.
Am132c **Salamandra,** lung t.s.
Am133c **Salamandra,** blood smear
Am142c **Salamandra,** kidney t.s.
Am143c **Salamandra,** stomach t.s.
Am144c **Salamandra,** small intestine t.s.
Am145d **Salamandra,** thyroid gland t.s. *
Am147d **Salamandra,** ovary t.s.
Am148d **Salamandra,** tail t.s.
Am151e **Triturus,** molge, eye of adult, radial l.s.
Am152e **Triturus,** eye of larva, radial l.s.
Am153e **Necturus**, axolotl, gills t.s.
Am201d • **Rana,** frog, epidermis flat mount for squamous epithelium w.m.
Am2012c **Rana,** squamous epithelium, w.m. of isolated cells
Am2013c **Rana,** columnar epithelium, w.m. of isolated cells
Am202d • **Rana,** roof of mouth with ciliated epithelium, t.s.
Am2021c **Rana,** ciliated epithelium, w.m. of isolated cells
Am203d **Rana,** compact bone decalcified, t.s.
Am204d **Rana,** head of femur t.s. showing bone and hyaline cartilage
Am205d • **Rana,** hyaline cartilage of sternum t.s.
Am206d • **Rana,** striated (skeletal) muscle, l.s.
Am207d **Rana,** striated muscle t.s.
Am208d **Rana,** striated muscle, isolated fibres w.m.
Am2083c **Rana,** heart muscle, isolated fibres w.m.
Am209e • **Rana,** nerve fibres isolated, fixed and stained with osmic acid to show Ranvier's nodes w.m.
Am210d **Rana,** adipose tissue t.s.
Am211d **Rana,** leg t.s. shows artery, vein, bone, nerve etc.
Am212c • **Rana,** lung t.s., simple baglike lung with large central cavity
Am2123e • **Rana,** contracted and expanded lung, two t.s. on same slide
Am213d • **Rana,** heart l.s., showing l.s. and t.s. of heart muscle
Am214c • **Rana,** blood smear
Am215c • **Rana,** tongue t.s., with papillae, glands, muscles
Am2155f **Rana,** head with mouth cavity and tongue l.s.
Am216c **Rana,** oesophagus t.s., showing ciliated epithelium
Am217c • **Rana,** stomach t.s., mucous membrane with gastric glands
Am218c • **Rana,** small intestine t.s., showing villi
Am219c **Rana,** large intestine (colon), t.s. with goblet cells
Am220c • **Rana,** liver t.s., liver parenchyme and bile ducts
Am221c **Rana,** pancreas t.s. with islets of Langerhans
Am222c **Rana,** gall bladder t.s.
Am223c • **Rana,** spleen t.s., lymphatic tissue
Am224e **Rana,** thyroid gland with colloid t.s.
Am225c • **Rana,** kidney t.s. showing Malpighian corpuscles and tubules
Am2252c **Rana,** kidney l.s.
Am226c **Rana,** urinary bladder t.s., showing smooth muscles
Am235d **Rana,** ureter t.s.
Am227d • **Rana,** ovary with developing eggs t.s.
Am228c **Rana,** fallopian tube t.s.
Am229d • **Rana,** testis showing spermatogenesis t.s.
Am2292d **Rana,** sperm smear
Am2295d • **Rana,** peripheral nerve t.s.
Am230c • **Rana,** anterior part of brain t.s.
Am2305e **Rana,** t.s. of brain in three different regions
Am231f **Rana,** complete brain sagittal l.s.
Am2312f **Rana,** complete brain sagittal l.s., silver stained
Am232d • **Rana.** spinal cord t.s., with white and grey matter
Am233d • **Rana,** posterior part of eyeball with retina, sagittal l.s.
Am2331g **Rana,** entire eyeball sagittal l.s. for general structures *
Am234c • **Rana,** skin with skin glands, vertical l.s.
Am2343f **Rana,** skin, w.m. showing injected vessels and chromatophores
Am251f **Rana,** small specimen, t.s. region of mouth
Am252f **Rana,** small specimen, t.s. through head
Am253f **Rana,** small specimen, t.s. region of thorax
Am254f **Rana,** small specimen. t.s. region of abdomen
Am261e • **Rana larva,** tadpole, head and eyes t.s.
Am262d • **Rana larva,** tadpole, thorax with gills t.s.
Am2622d • **Rana larva,** tadpole, region of lungs t.s.
Am263d • **Rana larva,** tadpole, abdomen t.s.
Am265d • **Rana larva,** tadpole, skin with pigment cells, w.m.
Am270g **Rana larva,** l.s. of 5 tadpoles of different age
Am291f **Rana embryology:** frog, early cleavage t.s.
Am292f **Rana embryology:** frog, blastula t.s.
Am293f **Rana embryology:** frog, gastrula t.s.
Am294f **Rana embryology:** frog, neurula t.s.
Am295f **Rana embryology:** frog, young larva t.s.

REPTILIA – REPTILES

Re121d **Ophidia sp.,** snake, skin with scales flat mount w.m.
Re122d **Ophidia sp.,** snake, skin with scales vertical l.s.
Re151c **Tropidonotus,** snake, striated muscles l.s.
Re153c **Tropidonotus,** trachea t.s.
Re154c **Tropidonotus,** lung t.s.
Re152c **Tropidonotus,** intestine and testis, t.s.
Re158c **Tropidonotus,** uterus t.s.
Re155d **Tropidonotus,** brain t.s.
Re157h **Tropidonotus,** motor nerve endings (end plates) in striated muscle of snake, w.m.
Re156h **Tropidonotus,** Jacobson's organ (vomeronasal organ), head of snake, t.s. *
Re161d **Anguis,** slow-worm, t.s. of embryo and placenta
Re240f **Tarentola,** gecko, l.s. of toe adapted for climbing
Re211c • **Lacerta,** lizard, blood smear
Re212d **Lacerta,** trachea t.s.
Re213c • **Lacerta,** lung t.s.
Re214c **Lacerta,** kidney t.s.
Re215c **Lacerta,** testis t.s. showing spermatogenesis
Re216c • **Lacerta,** intestine t.s.
Re217c **Lacerta,** liver t.s.
Re2173d **Lacerta,** heart l.s.
Re218d **Lacerta,** ovary t.s.
Re219d **Lacerta,** adrenal gland t.s.
Re220d **Lacerta,** t.s. of jaw showing changing of teeth
Re221d **Lacerta,** brain t.s.
Re231d • **Lacerta,** skin with scales vertical l.s.
Re235f **Lacerta,** small specimen, sagittal l.s. of the head
Re237h **Lacerta,** small specimen, sagittal l.s. of the head showing the parietal or pineal eye *
Re236e **Lacerta,** small specimen, t.s. of the head
Re251c **Testudo,** turtle, blood smear
Re252c **Testudo,** heart t.s.
Re254c **Testudo,** lung t.s.
Re256c **Testudo,** oesophagus t.s.
Re258c **Testudo,** stomach t.s.
Re259c **Testudo,** small intestine t.s.
Re260c **Testudo,** large intestine t.s.
Re262c **Testudo,** liver t.s.
Re264d **Testudo,** thyroid gland t.s.
Re266d **Testudo,** ovary t.s.
Re267d **Testudo,** oviduct t.s.
Re268d **Testudo,** testis t.s.
Re270c **Testudo,** urinary bladder t.s.
Re272c **Testudo,** striated (skeletal) muscle l.s.
Re273c **Testudo,** striated (skeletal) muscle t.s.

AVES – BIRDS

Av132b • **Gallus,** wing or vane feather w.m.
Av131b • **Gallus,** down feather w.m.
Av165b **Humming bird,** down feather w.m.
Av133b • **Gallus,** plume feather (filoplume) w.m.
Av134c **Gallus,** wing and down feather on one slide w.m.
Av1345d **Bird feather composite** slide: wing feather, down feather and filoplume on same slide w.m.
Av103c **Squamous epithelium,** mucous membrane of duck, t.s.
Av161e • **Herbst corpuscles,** t.s. of beak of duck
Av162e **Woodpecker,** tongue, t.s. showing touch corpuscles
Av150e **Singing bird,** syrinx l.s.
Av152c **Crop** of pigeon (Columba), t.s.
Av156e **Falco,** falcon, horizontal sec. of the retina
Av101g **Head of newly hatched bird,** sagittal l.s.
Av102f **Head of newly hatched bird,** t.s. through region of eyes
Av111c • **Gallus domesticus,** chicken, blood smear
Av118c **Gallus,** heart muscle l.s.
Av112c • **Gallus,** lung t.s. showing parabronchii
Av1123c **Gallus,** trachea t.s.
Av128c **Gallus,** spleen t.s.
Av129d **Gallus,** thymus gland t.s.
Av138d **Gallus,** adrenal gland t.s.
Av130d **Gallus,** bursa fabricii t.s.
Av121d • **Gallus,** tongue with thick cornified layer t.s.
Av113c **Gallus,** oesophagus t.s.
Av114c • **Gallus,** glandular stomach t.s.
Av127d • **Gallus,** gizzard t.s. showing thick cornified layer
Av115c • **Gallus,** small intestine t.s.
Av136c **Gallus,** blind gut t.s.
Av116c • **Gallus,** liver t.s.
Av122d **Gallus,** pancreas t.s.
Av117c • **Gallus,** kidney t.s.
Av137c **Gallus,** mesonephric duct t.s.
Av119d • **Gallus,** ovary with developing eggs t.s.
Av120d • **Gallus,** testis showing spermatogenesis t.s.
Av123d • **Gallus,** brain t.s.
Av1245c • **Gallus,** cerebellum, t.s. routine stained
Av1247f **Gallus,** cerebellum, t.s. silvered
Av139d **Gallus,** anterior part of eye with eyelid and nictitating membrane sagittal l.s.
Av140e • **Gallus,** posterior part of eye with retina and pecten, sagittal l.s.
Av155e **Gallus,** chicken, horizontal sec. of the retina
Av135c **Gallus,** cockscomb t.s.
Av124d • **Gallus,** skin with developing feathers, horizontal l.s.
Av125d • **Gallus,** skin with developing feathers, vertical l.s.
Av126d • **Gallus,** unfeathered skin of foot, vertical l.s.
Av211f **Gallus embryology:** chicken embryo, 36 hour t.s.
Av212f **Gallus embryology:** chicken embryo, 48 hour t.s.
Av213f **Gallus embryology:** chicken embryo, 72 hour t.s.

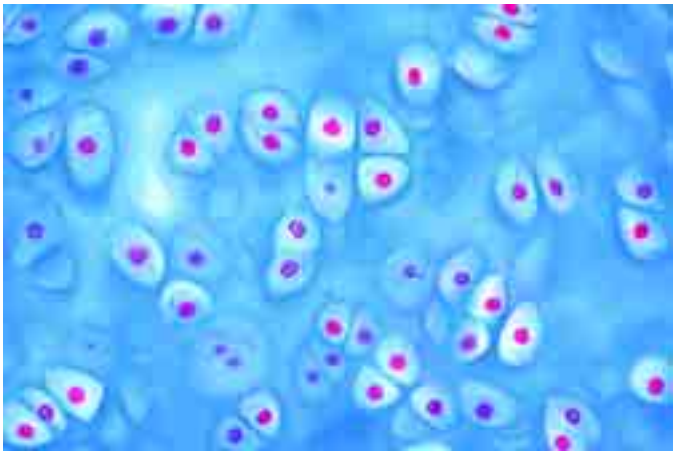
HISTOLOGY OF MAMMALIA

Cytology

Ma101d • **Simple animal cells** in sec. of salamander liver showing nuclei, cell membranes and cytoplasm. For general study of the animal cell
Ma102f **Mitotic stages** in sec. through red bone marrow of mammal
Ma1023f **Mitotic stages** in smear of red bone marrow of mammal
Ma1021h **Mitotic stages** in sec. of whitefish blastula showing spindles *
Ma1033f • **Meiotic (maturation) stages** in sec. through testis of salamander, selected material showing large structures *
Ma103f • **Meiotic (maturation) stages** in testis of mouse, sec. iron hematoxyline stained after Heidenhain
Ma1031f **Meiotic (maturation) stages** in smear from testis of mouse, specially stained after Feulgen *
Ma104h • **Human chromosomes** in smear from culture of blood, male *
Ma1041i • **Human chromosomes** in smear from culture of blood, female *
Ma1045f • **Barr bodies** (human sex chromatin) in smear from female squamous epithelium *
Ma105f • **Mitochondria** in thin sec. of kidney or liver, specially prepared and stained
Ma1055g • **Golgi apparatus** in sec. of spinal ganglion or other organ *
Ma1058e • **Pigment cells** in skin
Ma1061e • **Storage of glycogen** in liver cells, sec. stained with carmine after Best or PAS reaction
Ma1063e **Storage of fat** in cells of costal cartilage, sec. stained with Sudan
Ma1065f **Secretion of fat** in mammary gland, section Osmic acid stained
Ma1067f • **Phagocytosis** in Kupffer's star cells of the liver, sec. of mammalian liver injected with trypan blue

Epithelial tissues

Ma111c • **Squamous epithelium,** isolated cells from human mouth, smear
Ma1113d **Simple squamous epithelium,** in sec. through the cornea from eye
Ma112c • **Stratified, non-cornified squamous epithelium,** in section through buccal gum
Ma1121c **Stratified, non-cornified squamous epithelium,** in section through vagina of rabbit

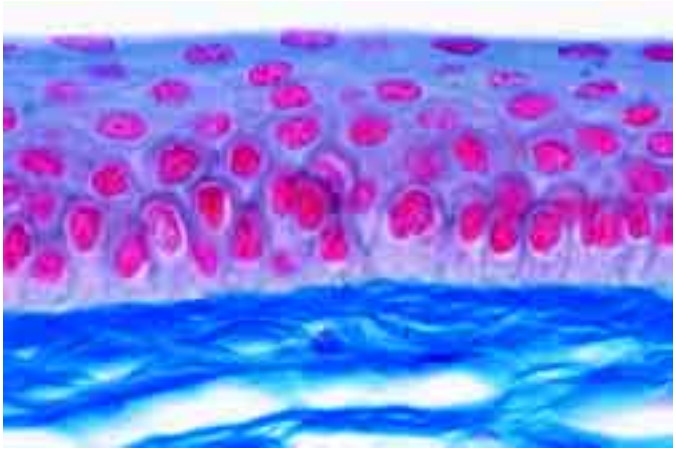


Hyaline cartilage, t.s.

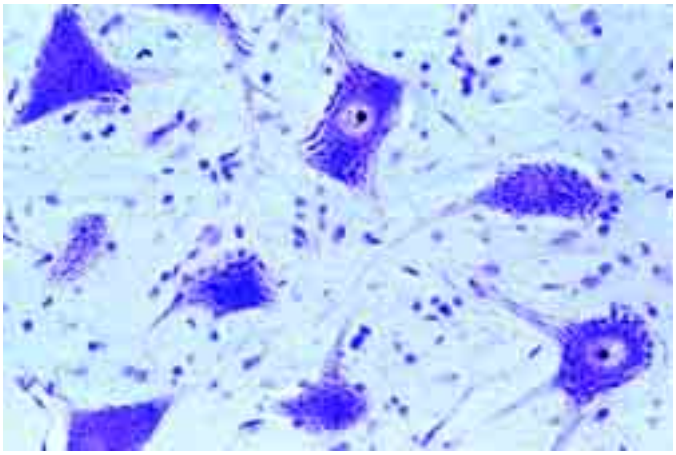
Ma1124d • **Stratified, non-cornified squamous epithelium,** in section of oesophagus
Ma1125d **Stratified, non-cornified squamous epithelium,** t.s. pig vagina
Ma1127d **Stratified, cornified squamous epithelium,** in vertical l.s. of human body skin
Ma113d • **Columnar epithelium,** isolated cells from intestine w.m.
Ma114c • **Simple columnar epithelium,** in t.s. of small intestine
Ma1142e **Simple columnar epithelium,** in t.s. of human gall bladder
Ma1145d • **Pseudostratified columnar epithelium**, in sec. through epididymis
Ma115d • **Ciliated epithelium,** isolated cells from trachea w.m.
Ma116d **Simple ciliated columnar epithelium,** in t.s. of oviduct
Ma1162d • **Pseudostratified ciliated columnar epithelium,** in t.s. of trachea
Ma117e **Endothelium,** endothelial cells of small blood vessels in mesenterium, silver stained and w.m.
Ma118d • **Cuboidal epithelium,** in sec. of kidney papilla
Ma1182e **Cuboidal epithelium,** in sec. of human thyroid gland
Ma120e **Transitional epithelium,** two section of urinary bladders showing contracted and extended epithelia
Ma1201d • **Transitional epithelium,** in sec. of urinary bladder of sheep
Ma1202d **Goblet cells** in sec. of colon, stained with muci-carmine
Ma1203e **Mucous glands** from human intestine, colouring of goblet cells, PAS-HE
Ma1204d **Holocrine glands**, sebaceous glands from human skin, l.s.
Ma1205c **Apocrine glands**, lacteal glands of sheep, sec.
Ma1206e **Eccrine glands**, salivary gland, human, sec.
Ma1207d **Sweat glands** in human skin, t.s.

Connective and supporting tissues

Ma121e • **Areolar connective tissue,** w.m. and stained for fibres and cells
Ma122d **White fibrous tissue,** isolated fibres from tendon
Ma123d • **White fibrous tissue,** l.s. of tendon
Ma1231d **White fibrous tissue,** t.s. of tendon
Ma1234f **Mast cells** in the Omentum majus of rat, specially stained with toluidine blue and paracarmine
Ma124d **Yellow elastic fibrous tissue,** l.s. of Ligamentum nuchae
Ma1242e • **Yellow elastic fibrous tissue,** t.s. of Ligamentum nuchae
Ma1244d **Elastic tissue,** fibres teased and w.m.
Ma125d **Reticular tissue** t.s.
Ma1252f **Reticular fibres,** human spleen, t.s. silvered
Ma126d • **Embryonic connective tissue** t.s.
Ma127d • **Mucous tissue,** t.s. of navel string (umbilical cord)
Ma1275f **Mucous tissue,** t.s. of navel string specially stained for Wharton's jelly



Cornea of mammal, t.s.



Nerve cells, stained for Nissl bodies

Ma1278d **Vesicular tissue,** cellular connective tissue with no intercellular substance, sec. through notochord of dogfish
Ma128c • **Adipose tissue,** section fat removed to show the cells
Ma129e • **Adipose tissue,** section showing fat in situ stained by sudan
Ma1292e **Adipose tissue,** section or w.m. with fat in situ stained by osmic acid
Ma1294c **Brown adipose tissue** of monkey, sec.
Ma130c • **Hyaline cartilage,** t.s.
Ma1302c **Hyaline cartilage** of cat, t.s.
Ma1305d **Fetal hyaline cartilage**, t.s.
Ma131d • **Yellow elastic cartilage,** section specially stained for elastic fibres
Ma1312d **Yellow elastic cartilage,** ear of rabbit or pig, t.s.
Ma132d • **White fibrous cartilage,** section
Ma1323f **Fibrous cartilage,** human intervertebral disc, sec.
Ma135d • **Compact bone,** t.s. specially prepared to show the cells and canaliculi
Ma136d • **Compact bone,** l.s. specially prepared to show the cells and canaliculi
Ma1365d • **Cancellous (spongy) bone,** t.s.
Ma1367f **Compact bone,** human, ground thin and mounted *
Ma137e **Compact bone and hyaline cartilage** t.s., two sections on one slide
Ma138e • **Bone development,** intracartilaginous ossification in foetal finger or toe, l.s.
Ma139e • **Bone development,** intermembranous ossification in foetal head (cranial bone), vertical l.s.
Ma140d • **Yellow bone marrow t**.s.
Ma141e **Joint of finger** or toe, sagittal l.s.
Ma142e **Foetal knee joint**, l.s. showing ossification of tendons *

Muscle tissues

Ma151d • **Striated (skeletal) muscle** l.s.
Ma152d **Striated (skeletal) muscle** t.s.
Ma153d • **Striated (skeletal) muscle,** teased preparation showing isolated fibres w.m.
Ma1535f **Striated (skeletal) muscle,** l.s. specially stained for myofibrils *
Ma1537f **Striated (skeletal) muscle,** thin l.s. specially stained to show details of the striations
Ma154d • **Smooth (involuntary) muscle,** l.s. and t.s.
Ma1542d **Smooth (involuntary) muscle,** l.s. only
Ma155d • **Smooth (involuntary) muscle,** teased preparation showing isolated fibres w.m.
Ma1555f **Smooth (involuntary) muscle,** sec. specially stained for myofibrils *
Ma156d • **Heart muscle,** l.s. and t.s.
Ma158e • **Heart muscle,** teased preparation shows isolated fibres w.m.
Ma157e **Heart muscle,** l.s. and t.s. specially stained for intercalated discs
Ma159e **Heart muscle,** specially stained to show the Purkinje fibres *
Ma160d **Muscle-tendon junction,** l.s.
Ma165f **Muscle types,** composite slide with l.s. of striated, smooth and heart muscles

Circulatory system

Ma171d **Artery** of rabbit, t.s. routine stained
Ma172d • **Artery** of rabbit, t.s. stained for elastic fibres
Ma1725f **Artery** of rabbit, t.s. specially stained for myofibrils *
Ma173d **Vein** of rabbit, t.s. routine stained
Ma174d • **Vein** of rabbit, t.s. stained for elastic fibres
Ma182e **Valve of the vein** of rabbit, l.s. or w.m. *
Ma175d **Artery and vein** of smaller size in one slide, guinea pig, t.s.
Ma1752d **Artery, vein and capillary,** guinea pig, t.s.
Ma1753e **Artery, vein and nerve,** guinea pig, t.s.
Ma176d • **Aorta** of rabbit, t.s. routine stained
Ma1762d **Aorta** of rabbit, t.s. stained for elastic fibres
Ma178e • **Small blood vessels** in mesenterium of rabbit, w.m.
Ma179f • **Heart** of mouse, entire sagittal l.s.
Ma180d **Heart** of mouse, t.s.
Ma181f **Pinna of the ear** of rabbit, sec. injected to show anastomosis of blood vessels
Ma190c • **Human blood smear**, Giemsa stain
Ma1902c **Human blood smear,** Wright's stain
Ma195c **Rabbit blood smear,** Giemsa stain
Ma196c **Cat blood smear,** Giemsa stain
Ma1963c **Camel blood smear,** elliptical erythrocytes
Ma1965c **Rat blood smear,** Giemsa stain
Ma197c • **Frog blood smear,** nucleated erythrocytes
Ma1973c **Amphiuma blood smear,** very large erythrocytes

Respiratory system

Ma211e • **Nasal region** of small mammal (mouse or rat), t.s. showing respiratory and olfactory epithelium, bone etc.
Ma212e **Larynx** of mouse, sagittal l.s.
Ma213e **Larynx** of mouse, frontal l.s.
Ma214d **Trachea** of cat or rabbit, t.s. with ciliated epithelium, cartilage etc.
Ma215d • **Trachea** of cat or rabbit, l.s.
Ma2155e **Bronchus** of cat or dog, t.s.
Ma216c • **Lung** of cat, t.s. routine stained for all details
Ma217d **Lung** of cat, t.s. stained for elastic fibres
Ma218e **Lung** of cat, t.s. silver stained
Ma2183f **Lung** of cat, sec. showing injected blood vessels
Ma220d **Lung** of cat, thick section showing arrangement of alveoli
Ma2185c **Lung** of rat, t.s.
Ma219d **Lung** from human fetus, t.s. shows developing tissues
Ma222d **Trachea and oesophagus** of rabbit, t.s.
Ma225e • **Lung cancer**, human, carcinoma, sec.
Ma226h **Lung pathology**, composite slide: normal human lung, lung with carbon particles, emphysema, and lung cancer, four sections

Lymphatic system

Ma231c • **Lymph node** of pig, t.s. routine stained
Ma232f **Lymph node** of pig, t.s. shows reticular tissue only (cells removed) *
Ma2323c **Lymph node** of cat, t.s. routine stained
Ma2325g **Lymphatic vessel**, w.m. from mesentery, with valve *
Ma233e • **Tonsil**, human, t.s.
Ma234c • **Spleen** of rabbit, t.s. showing capsula, pulp etc.
Ma235f **Spleen** of rabbit, t.s. injected to show the blood vessels
Ma2353c **Spleen** of guinea pig, t.s.
Ma236d • **Red bone marrow** of cow, thin sec.
Ma237d **Red bone marrow** of cow, smear specially stained
Ma2375f **Red bone marrow**, smear with normoblasts *
Ma238f **Thymus** from human child, t.s. with Hassall bodies
Ma239d • **Thymus** of young cat, t.s. with Hassall bodies
Ma240d **Thymus** gland of cow, sec.

Endocrine glands

Ma252d • **Thyroid gland** of cow, sec. showing colloid
Ma2523d **Thyroid gland** of cat, sec.
Ma2525e **Trachea with thyroid gland** of rat, t.s.
Ma270f **Thyroid gland**, sec. showing insufficiency of the gland
Ma271f **Thyroid gland**, sec. showing over-activity of the gland
Ma262f **Parathyroid gland** of pig, t.s.
Ma263f **Parathyroid and thyroid** gland of mammal, t.s.
Ma274f **Carotid body** of pig, sec.
Ma253d • **Adrenal gland (Gl. suprarenalis)** of rabbit, t.s. through cortex and medulla
Ma2534f **Adrenal gland** of rabbit, t.s. silver stained to show nerve fibres in the medulla
Ma2535d **Adrenal gland** of cat, t.s.
Ma254f • **Islets of Langerhans** in t.s. of pancreas from cat, specially stained for cellular detail
Ma2543d **Pancreas** with islets of Langerhans of cat, sec.
Ma255e • **Pituitary gland (hypophysis),** sag. l.s. of complete organ from cow or pig showing adeno- and neurohypophysis
Ma259h **Pituitary gland,** t.s. of infundibulum specially stained to show neurosecretes *
Ma258g **Pituitary gland**, thin t.s. of glandular portion stained for fine cellular detail
Ma257e • **Pineal body (Epiphysis)** of cow or pig, t.s.
Ma2572d **Pineal body (Epiphysis)** of sheep, t.s.
Ma2574d **Leydig's cells** in testis of mouse, t.s.

Digestive system

Ma310c • **Lip** of mouse, sagittal l.s.
Ma311d • **Tooth** human, t.s. of crown
Ma312d **Tooth** human, t.s. of root
Ma313f **Tooth** human, entire l.s.
Ma314e **Gum with root of tooth** from guinea pig, sagittal l.s.
Ma3142e **Gum with root of tooth** from guinea pig, t.s.
Ma315e • **Tooth development,** early stage l.s.
Ma316e • **Tooth development,** medium stage l.s.
Ma317e • **Tooth development,** later stage l.s.
Ma321c **Tongue** of mouse, entire sagittal l.s.
Ma322c **Tongue** of mouse, t.s.
Ma323d • **Tongue** of cat, papilla with thick cornified layer, l.s.
Ma326c • **Soft palate** of rabbit, t.s.
Ma327c **Hard palate** of rabbit, t.s.
Ma331c • **Oesophagus** of cat or dog, t.s.
Ma3315c **Oesophagus** of cat or dog, l.s.
Ma3316c **Oesophagus** of sheep, l.s.
Ma3318e **Oesophagus – stomach** junction of cat, l.s.
Ma333d • **Stomach** of cat, cardiac region t.s.
Ma334d • **Stomach** of cat, fundic region t.s.
Ma335d • **Stomach** of cat, pyloric region t.s.

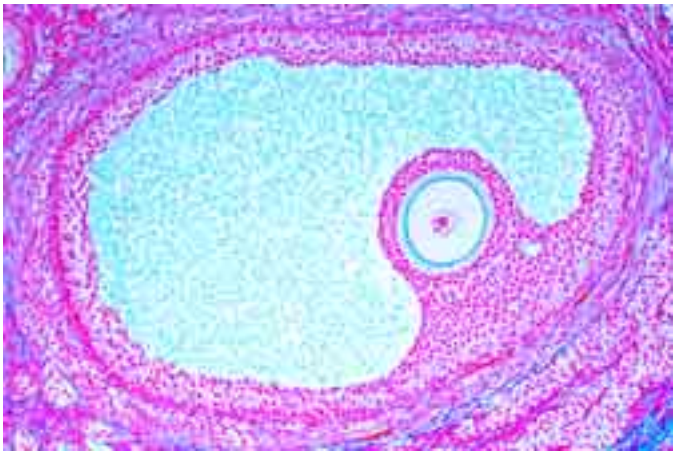
Ma3352s **Stomach**, composite slide of three regions: cardiac, fundic and pyloric t.s.
Ma3361f **Stomach**, sec. through gastric glands specially stained for different cell types
Ma332f **Stomach** of cat, injected to show the blood vessels, t.s.
Ma336f **Stomach** of rat, entire sagittal l.s.
Ma3368d **Stomach** of pig, cardia t.s.
Ma3365e **Stomach – duodenum** junction of cat, l.s.
Ma337c • **Duodenum** of cat or dog, t.s. showing Brunner's glands
Ma3371d **Duodenum** of monkey, sec. showing glands of Lieberkühn
Ma3373e **Duodenum**, mucous glands stained, PAS-HE
Ma338c • **Jejunum** of cat or dog, t.s.
Ma3383e **Jejunum**, mucous glands stained, PAS-HE
Ma339c **Ileum** of cat or dog, t.s. showing Peyer's patches
Ma3393e **Ileum**, mucous glands stained, PAS-HE
Ma3395s **Small intestine**, composite slide of three regions: duodenum, ileum and jejunum t.s.
Ma343f • **Small intestine** of dog, injected to show the blood vessels and capillary network t.s.
Ma340d **Small intestine** of rat, t.s.
Ma3403c **Small intestine** of cat, t.s.
Ma3405d **Small intestine** of horse, t.s.
Ma341d • **Vermiform appendix**, human t.s.
Ma342d **Vermiform appendix**, rabbit t.s.
Ma344c • **Caecum (blind gut)** of rabbit, t.s.
Ma345c **Colon (large intestine)** of pig, t.s.
Ma346d • **Colon**, t.s. stained with muci-carmine or PAS for demonstration of mucous cells
Ma3463c **Colon** of cat, t.s.
Ma3465e **Ileocecal junction** of cat, l.s.
Ma347c **Rectum** of cat or rabbit, t.s.
Ma3472e **Anal canal** and rectum of cat, l.s.
Ma3474d **Anal gland** of dog t.s.
Ma351d • **Parotid gland** of cat, t.s. of a pure serous gland
Ma352d • **Submaxillary gland** of cat, t.s. of a mixed serous and mucous gland
Ma353d • **Sublingual gland** of cat, t.s. of a pure mucous gland
Ma3535f **Salivary glands**, composite slide: parotid, sublingual and submaxillary gland, t.s.
Ma354d • **Pancreas** of pig, t.s. showing islets of Langerhans
Ma3542d **Pancreas** of cat, sec. stained with Heidenhain's iron-hematoxline
Ma3543f **Pancreas** of cat, sec. showing injected vessels
Ma357d • **Liver** of pig, t.s. showing well developed connective tissue
Ma356d **Liver** of cat, t.s.
Ma3562f **Liver** of cat, sec. showing injected vessels
Ma3564f **Liver** of dog, sec. showing injected vessels
Ma358d **Liver** from mouse embryo, t.s. showing origin of blood cells
Ma359f • **Liver**, t.s. specially stained for Kupffer's stellate cells
Ma360e • **Liver**, t.s. stained for glycogen
Ma361f **Liver**, thin sec. stained for mitochondria
Ma3613f **Liver**, t.s. special preparation to show the bile ducts *
Ma3614f **Liver**, sec. silver stained to show the reticular fibres
Ma362c **Bile duct (Ductus choledochus)** of rabbit, t.s.
Ma363d • **Gall bladder** of rabbit, t.s.
Ma3634c **Gall bladder** of sheep, t.s.
Ma371d **Rumen** of cow, t.s.
Ma372d **Reticulum** of cow, t.s.
Ma373d **Omasum** of cow, t.s.
Ma374d **Abomasum** of cow, t.s.

Excretory system

Ma411d • **Kidney** of cat, t.s. showing cortex with Malpighian corpuscles and medulla with tubules, Mallory's stain
Ma413e • **Kidney** of mouse, sagittal l.s. through complete organ with cortex, medulla and pelvis
Ma414c **Kidney** of mouse, t.s. through the complete organ
Ma415f • **Kidney** of mouse, t.s. vital stained with trypan-blue to demonstrate storage
Ma4156d **Kidney** of dog, t.s.
Ma4157d **Kidney** of rabbit, t.s.
Ma416f **Kidney,** sec. fixed and stained to show mitochondria
Ma417f **Kidney,** sec. injected showing the blood vessels
Ma418c **Renal papilla** of rabbit, t.s.
Ma4183d **Renal pelvis** of cat, t.s.
Ma419e **Cancer** of human kidney, t.s.
Ma421c • **Ureter** of rabbit, t.s.
Ma4214d • **Ureter** of pig, t.s.
Ma422c • **Urinary bladder** of rabbit, t.s.
Ma423c **Urethra** of rabbit, t.s.

Reproductive system

Ma431d • **Ovary** of cat, t.s. for general study, shows primary, secondary and Graafian follicles
Ma433g **Ovary**, sec. selected to show Cumulus oophorus with egg cell *
Ma4332f **Ovary**, sec. selected to show Graafian follicle with detatched egg cell
Ma434d • **Ovary**, sec. selected to show Corpus luteum
Ma4341d **Ovary** of rabbit, t.s.
Ma4342e **Ovary**, sec. of juvenile organ showing developing tissue
Ma435c • **Fallopian tube** of pig, t.s.
Ma4353c **Fallopian tube** of cat, t.s.
Ma4354c **Fallopian tube** of rabbit, t.s.
Ma4355d **Fallopian tube** with Infundibulum of sheep, l.s.
Ma437d • **Uterus** of pig or rabbit, resting stage, t.s.
Ma438d **Uterus** of pig or rabbit, pregnant stage, t.s.

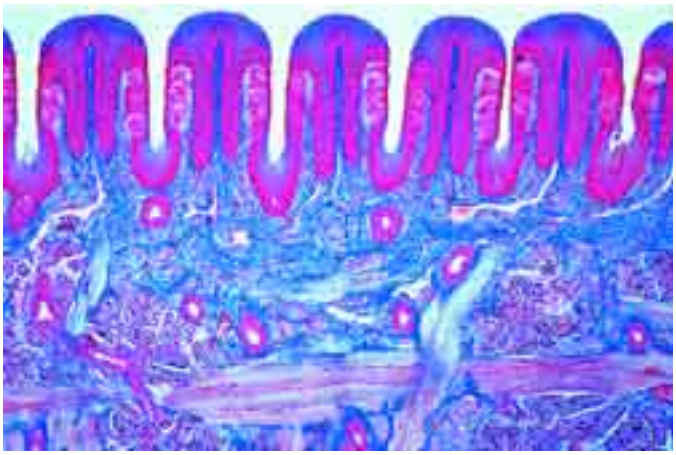


Ovary of cat, t.s. showing Graafian follicle

Ma439d • **Uterus** of rat with embryo in situ, t.s.
Ma4393d **Uterus** of sheep, t.s.
Ma4394c **Uterus**, juvenil, of cat, t.s.
Ma440e • **Placenta**, human , t.s.
Ma4405c **Placenta** of cat, t.s.
Ma445f • **Embryo of mouse**, sagittal l.s. of entire specimen
Ma446d **Embryo of mouse**, t.s. of head
Ma447d • **Embryo of mouse**, t.s. of thoracal region
Ma448d **Embryo of mouse**, t.s. of abdominal region
Ma449e **Embryo of pig**, t.s.
Ma451d • **Vagina** of pig, t.s.
Ma4513c **Vagina** of rabbit, t.s.
Ma452d **Vagina** and urethra of rabbit or cat, t.s.
Ma453d • **Umbilical cord (navel string)** of cow, t.s.
Ma454d **Umbilical cord** of pig, t.s.
Ma461d • **Testis** of mouse, t.s. showing spermatogenesis
Ma4613d **Testis** of rat, t.s. showing spermatogenesis
Ma4614d **Testis** of rabbit, t.s. showing spermatogenesis
Ma462d • **Testis** of bull, t.s. showing spermatogenesis
Ma4623f **Testis** of monkey, showing insufficiency, t.s.
Ma4624f **Testis** of monkey, showing over-activity, t.s.
Ma463d • **Epididymis** of bull, t.s.
Ma4631d **Epididymis** of rat, t.s.
Ma4632e **Testis and epididymis** of rat, t.s.
Ma4634e **Testis and epididymis** of cat, t.s.
Ma464d • **Sperm smear** of bull
Ma4642d **Sperm smear** of rat
Ma466d • **Spermatic cord (Ductus deferens)** of pig or rabbit, t.s.
Ma467d • **Seminal vesicle (Gl. vesiculosa)** of pig, t.s.
Ma4672d **Seminal vesicle** (Gl. vesiculosa) of rat, t.s.
Ma468d • **Prostate gland** of monkey, t.s.
Ma4683c **Prostate gland** of rat, t.s.
Ma469d • **Penis** of guinea pig, t.s.
Ma470d **Penis** of rabbit, t.s.

Nervous system

Ma511d • **Cerebral cortex** of cat or dog, t.s. routine stained
Ma512f • **Cerebral cortex**, t.s. Golgi's silver method to show the pyramid cells
Ma518f **Cerebral cortex,** t.s. stained after Held to show neuroglia cells
Ma562f **Cerebrum** of cat, sec. stained for medullated sheaths (Weigert) *
Ma514d • **Cerebellum** of cat or dog, t.s. routine stained
Ma515f • **Cerebellum**, t.s. Golgi's silver method to show the Purkinje cells
Ma5152f **Cerebellum**, t.s. stained by Cajal's method
Ma563f **Cerebellum** of cat, sec. stained for medullated sheaths (Weigert) *
Ma521e **Brain** of mouse, horizontal l.s. of the complete organ
Ma522e **Brain** of mouse, sagittal l.s. of the complete organ
Ma523f **Brain** of mouse, t.s. of brain in three different regions
Ma525d • **Medulla oblongata**, of rabbit, t.s.
Ma526d • **Spinal cord** of cat, t.s. routine stained
Ma527e **Spinal cord** of cat, t.s. stained for Nissl bodies
Ma528f **Spinal cord** of cat, t.s. silvered for nerve cells and fibres
Ma5285f **Spinal cord** of cat, t.s. stained after Klüver-Barrera
Ma529d **Spinal cord** of cat, l.s. routine stained
Ma5293d **Spinal cord** of pig, t.s.
Ma5294e • **Spinal cord** of cow, t.s. stained for Nissl bodies
Ma5295c **Spinal cord** of rabbit, t.s.
Ma5296d **Vertebra with spinal cord** of rat, t.s.
Ma531e **Spinal cord,** human, t.s. of cervical region
Ma532e **Spinal cord,** human, t.s. of thoracal region
Ma533e **Spinal cord,** human, t.s. of lumbar region
Ma564f **Spinal cord** of cat, sec. stained for medullated sheaths (Weigert) *
Ma534e **Spinal cord,** t.s. with dorsal root ganglion and portions of ventral and dorsal nerve roots
Ma542e • **Sympathetic ganglion** of cow or pig, t.s. with multipolar nerve cells
Ma543d **Spinal ganglion** of cow, t.s.
Ma541e **Ganglion semilunare** (G. Gasseri), t.s. shows unipolar nerve cells *
Ma540f **Ganglion** of cat, t.s. stained with osmic acid
Ma544c • **Peripheral nerve** of cow or pig, l.s. routine stained
Ma545c • **Peripheral nerve** of cow or pig, t.s. routine stained



Taste buds in t.s. of Papilla foliata of rabbit tongue

Ma5453d **Peripheral nerve** of cat, l.s.
Ma547e • **Peripheral nerve**, teased material of osmic acid fixed material showing Ranvier's nodes and medullary sheaths
Ma546e **Peripheral nerve**, t.s. fixed and stained with osmic acid for medullary sheaths
Ma548e **Peripheral nerve**, l.s. of osmic acid fixed material shows Ranvier's nodes and medullary sheaths in section
Ma549c • **Optic nerve (Nervus opticus)** of calf or pig, t.s.
Ma550f **Entrance of optic nerve** into the retina, sag.sec.
Ma551e • **Motor nerve cells**, smear preparation from spinal cord of ox shows nerve cells and their appendages
Ma5513f **Motor nerve cells**, smear preparation from spinal cord of ox stained for Nissl bodies
Ma552h • **Motor nerve endings,** muscle stained with gold chloride showing the motor end plates *
Ma554e • **Pacinian corpuscles** in mesentery or pancreas of rabbit
Ma555e • **Grandry corpuscles** in t.s. through beak of duck
Ma556e **Merkel corpuscles** in t.s. through snout of pig
Ma557f • **Meissner's corpuscles** of monkey, sec. showing tactile corpuscles

Organs of sense

Ma601e • **Eye** of cat, posterior part with retina, sagittal l.s.
Ma602e • **Eye** of cat, anterior part with iris, ciliary body, cornea, sagittal l.s.
Ma603g • **Eye** of rat or guinea pig, entire organ sagittal l.s. for general study
Ma6031h **Eye** of rat or guinea pig, entire organ median sagittal l.s. passing the entrance of optic nerve *
Ma608e • **Developing eyes** in t.s. of head from guinea pig embryo
Ma6034d • **Retina** of cat, t.s. for general study
Ma6035f **Retina** of cat, sec. with entrance of optic nerve
Ma605d **Retina** of pig, thin sec. special stain for details of rods and cones
Ma606f **Retina** of pig, sec. with entrance of optic nerve
Ma6062e **Retina** of pig, horizontal sec. for fine detail, t.s. of rods and cones
Ma6064e **Retina**, w.m. showing pigment cells
Ma607d • **Cornea** of eye from pig, sagittal l.s.
Ma6066e • **Lacrimal gland** of cat, t.s.
Ma609e • **Cochlea (internal ear)** from guinea pig, l.s. showing organ of Corti
Ma610e **Cochlea** from guinea pig, t.s.
Ma6103g **External and internal ear** with eardrum and cochlea, l.s.
Ma6105t **Crista ampullaris**, sec. through ear of guinea pig *
Ma612d • **Olfactory region** from nose of rabbit, t.s.
Ma6123d **Olfactory epithelium**, dog, t.s.
Ma6124d **Olfactory epithelium**, cat, t.s.
Ma614e • **Taste buds**, t.s. of papilla foliata in tongue of rabbit shows abundant taste buds, carefully stained
Ma6142e **Taste buds**, t.s. of papilla foliata in tongue of rabbit, sec. unstained special mounted for phase contrast observation
Ma615d **Taste buds**, t.s. of tongue of rat
Ma617e • **Tactile hairs** with blood sinus, l.s. or t.s.

Integument (Skin)

Ma632d • **Human skin from palm**, vertical sec. showing cornified layers, sweat glands, etc.
Ma633d **Human skin from palm**, horizontal sec.
Ma6334d • **Human body skin**, white, vertical sec.
Ma6335d **Human body skin**, negro, vertical sec.
Ma6336f **Human body skin**, white and negro, two vertical sec.
Ma6337f **Human skin**, sec. showing Pacinian corpuscles *
Ma6338f **Human skin**, sec. showing Meissner's corpuscles *
Ma635d • **Human scalp**, sagittal l.s. showing l.s. of hair follicles, sebaceous glands, etc.
Ma636d • **Human scalp**, horizontal sec. shows t.s. of hair follicles
Ma637d • **Human skin** from foetus, vertical sec. showing hair development
Ma638e • **Finger tip** from human foetus, sagittal l.s. of nail development
Ma6382e **Finger tip** from human foetus, t.s. of nail development
Ma639f **Foot of calf** embryo, sagittal l.s. showing hoof development
Ma6404c • **Skin with hairs**, cat, vertical sec.
Ma6405c **Skin of foot**, cat, vertical sec. showing stratum corneum and stratum germinativum
Ma641d **Skin** of pig, vertical sec.
Ma642d **Skin** of pig, horizontal sec.
Ma6427e **Corium** of pig, horizontal sec. stained for elastic fibres
Ma6422f **Skin** of pig embryo, t.s. showing injected vessels
Ma644d **Skin** of dog, vertical sec. routine stained for comparison
Ma643f **Skin** of dog, vertical sec. injected to show the blood vessels
Ma6443d **Skin** of guinea pig, vertical sec.
Ma6425d **Skin** from snout of calf, horizontal sec. for fine detail of the different layers of skin
Ma640c • **Eyelid** of rabbit, t.s.
Ma6402c **Eyelid** of cat, t.s. showing Meibomian gland
Ma647b • **Human hair**, w.m.
Ma649b **Hair (bristle) of pig,** w.m.
Ma6493b **Hair of ren**, w.m.
Ma652b **Hair of cat**, w.m.
Ma653b **Hair of camel**, w.m.
Ma651d **Mammalian hair**, composite slide of five types, w.m.: rabbit, muskrat, mink, seal, Persian lamb
Ma645c • **Mammary gland** of rabbit or mouse, active stage t.s.
Ma646c **Mammary gland** of rabbit or mouse, resting stage t.s.
Ma6461e **Mammary gland**, active and resting, two t.s. in one slide
Ma6465f **Mammary gland**, active, t.s. fixed and stained with osmic acid to show the milk fat
Ma6468d **Mammary gland** of cow, active t.s.
Ma6469d **Mammary gland** of cow, juvenile t.s.
Ma6467e **Nipple** of mammary gland, l.s.

General view of mammalian histology

Ma703g • **Young mouse**, sagittal l.s. through entire specimen passing the vertebral column
Ma704i **Young mouse**, median sagittal l.s. through entire specimen
Ma705g **Young mouse**, parasagittal l.s. through entire specimen
Ma706g • **Young mouse**, horizontal (frontal) l.s. through entire specimen
Ma708f **Young mouse**, t.s. of head in region before the eyes, with nasal region, tooth development, sinus hairs etc.
Ma709f • **Young mouse**, t.s. of head passing the eyes
Ma710f **Young mouse**, t.s. of head in region back to the eyes with brain
Ma712e • **Young mouse**, t.s. of thorax with heart, lungs, etc.
Ma713e • **Young mouse**, t.s. of abdomen with intestinal organs
Ma714d **Young mouse**, t.s. of leg

HUMAN HISTOLOGY

Epithelia and Cytology

Ho111c • **Squamous epithelium**, isolated cells from human mouth, smear
Ho1124e • **Stratified, non-cornified squamous epithelium**, section of oesophagus
Ho1127d **Stratified, cornified squamous epithelium**, in vertical sec. of human body skin
Ho114e • **Simple columnar epithelium**, in sec. of secreting tubules of human kidney
Ho1143e • **Columnar epithelium**, human gall bladder t.s.
Ho116e • **Simple ciliated columnar epithelium**, in t.s. of oviduct
Ho1163e • **Pseudostratified ciliated columnar epithelium**, trachea, t.s.
Ho118e **Simple cuboidal epithelium**, in sec. of human thyroid gland
Ho120e • **Transitional epithelium**, in sec. of human bladder
Ho1202e **Glandular epithelium**, in sec. of human colon with unicellular mucous glands
Ho1213d **Holocrine glands**, sebaceous glands from human skin, l.s.
Ho1214e **Eccrine glands**, salivary gland, human, sec.
Ho1215e **Mucous glands** from human intestine, colouring of goblet cells, PAS-HE
Ho1204e **Mesothelium**, sec. of human mesentery
Ho1205g • **Golgi apparatus**, sec. of jenunum silver stained *
Ho104h • **Human chromosomes** in smear from culture of blood, male
Ho1041i • **Human chromosomes** in smear from culture of blood, female
Ho1045f • **Barr bodies** (human sex chromatin) in smear from female squamous epithelium *

Connective and supporting tissues

Ho121e • **Areolar connective tissue**, human w.m.
Ho123f **Reticular fibres**, human spleen, t.s. silvered
Ho126d • **Embryonic connective tissue** from human foetus, sec.
Ho127e • **Mucous tissue**, t.s. of umbilical cord (navel string) from foetus
Ho128e • **Adipose tissue,** human, sec. fat removed to show the cells
Ho1282e **Adipose tissue,** human, sec. stained for fat
Ho1292e • **White fibrous tissue,** tendon, human, l.s.
Ho1293e **White fibrous tissue,** tendon, human, t.s.
Ho1295e **Peritoneum,** human, t.s.
Ho130e • **Hyaline cartilage,** human t.s.
Ho1305e **Hyaline cartilage,** from human foetus, sec.
Ho133e **Sternal cartilage,** human sec.
Ho131e • **Yellow elastic cartilage,** human, sec. stained for elastic fibres
Ho1312e **Yellow elastic cartilage,** from human foetus sec.
Ho132f • **White fibrous cartilage,** human sec.
Ho1322f **White fibrous cartilage,** human intervertebral disc, sec.
Ho135e • **Compact bone,** human t.s.
Ho136e **Compact bone,** human l.s.
Ho1365e • **Spongy (cancellous) bone,** human t.s.

Ho1368h **Bone human,** ground thin, c.s. and l.s. mounted in balsam *
Ho138e • **Bone development** (intracartilaginous), l.s. of foetal finger
Ho139e • **Bone development** (intermembranous), vertical l.s. of foetal skull-cap (cranial bone)
Ho141e **Joint** of human foetus, l.s.

Muscle tissues

Ho151e • **Striated (skeletal) muscle,** human l.s.
Ho1512f **Striated (skeletal) muscle,** human l.s., special stain of striations
Ho152e • **Striated (skeletal) muscle,** human t.s.
Ho1522g **Striated (skeletal) muscle,** isolated fibres, gold impregnation
Ho1524e **Striated (skeletal) muscle** from human foetus, l.s.
Ho154e • **Smooth (involuntary) muscle**, human l.s. and t.s.
Ho156e • **Heart (cardiac) muscle**, human l.s. and t.s.
Ho160f **Muscle-tendon junction**, human l.s.
Ho165g **Muscle types**, composite slides with l.s. of striated, smooth and heart muscles

Circulatory system

Ho171e **Artery,** human, t.s. routine stained
Ho172e • **Artery,** human, t.s. stained for elastic fibres
Ho1726e **Coronary artery,** human t.s.
Ho170e **Artery with valve,** human l.s. *
Ho173e **Vein,** human, t.s. routine stained
Ho174e • **Vein,** human, t.s. stained for elastic fibres
Ho1743e **Vena cava,** human t.s.
Ho175e **Artery and vein of smaller size,** human t.s. routine stained
Ho1751e **Artery and vein of smaller size,** human t.s. elastic fibres stained
Ho176e **Aorta,** human, t.s. routine stained
Ho1762e • **Aorta,** human, t.s. stained for elastic fibras
Ho1765e **Aortic valve,** human or sheep, t.s. *
Ho180c • **Blood smear,** human, Giemsa stain
Ho1802c **Blood smear,** human, Wright's stain

Respiratory system

Ho214f • **Trachea,** human t.s.
Ho215f **Trachea,** human l.s.
Ho2152e **Trachea** from human fetus t.s.
Ho2153f **Larynx**, human foetus, t.s.
Ho213f **Epiglottis,** human sec.
Ho2134f **Vocal cord,** human t.s.
Ho220e **Bronchus of lung,** human, t.s.
Ho216e • **Lung,** human, sec. routine stained
Ho217e **Lung,** human, sec. stained for elastic fibres
Ho2183f **Lung,** human, sec. showing injected vessels
Ho219e **Lung from human foetus,** sec.

Lymphatic system

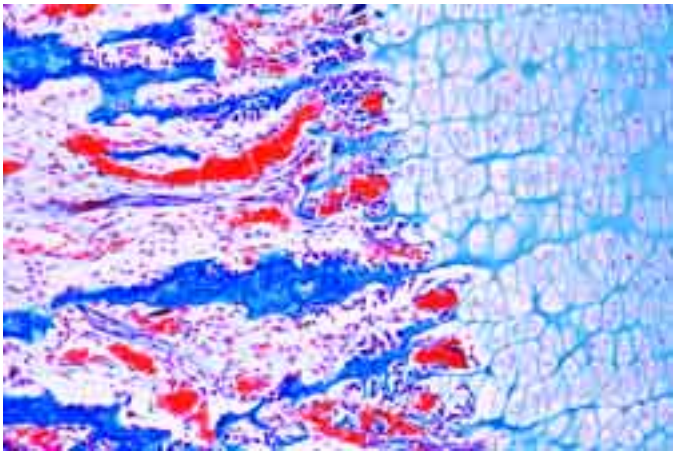
Ho231e • **Lymph node,** human t.s.
Ho232e **Lymph node,** human foetus, t.s.
Ho233e • **Tonsil (Tonsilla palatina),** human t.s.
Ho234e • **Spleen,** human t.s.
Ho2352e **Spleen** from human foetus t.s.
Ho236e • **Red bone marrow**, human rib t.s.
Ho2363e **Red bone marrow,** human fetus, t.s., Giemsa stained
Ho237f **Red bone marrow**, human, smear, Giemsa stained
Ho2372e **Developing blood cells** in sec. of liver of human foetus
Ho2376e **Thymus** from human foetus, sec.
Ho238f • **Thymus** from human child, t.s.
Ho239f **Thymus** from human adult, t.s.

Endocrine glands

Ho252e • **Thyroid gland (Gl. thyreoidea),** human t.s.
Ho2523f **Parathyroid gland (Gl. parathyreoidea),** human t.s. *
Ho253f • **Adrenal gland (Gl. suprarenalis),** human t.s.
Ho255f • **Pituitary gland (Hypophysis),** human t.s. *
Ho257f • **Pineal body (Epiphysis),** human t.s. *
Ho254f • **Pancreas** with islets of Langerhans, human, sec.

Digestive system

Ho310f • **Lip,** human t.s.
Ho3102e **Lip,** human foetus, t.s.
Ho311e • **Tooth,** human, t.s. of crown
Ho312e **Tooth,** human, t.s. of root
Ho313f **Tooth,** human, complete l.s.
Ho3137g **Tooth,** human, ground thin, t.s. *
Ho3138k **Tooth,** human, ground thin, l.s. *
Ho315f **Tooth development** from human foetus, early stage l.s.
Ho316f • **Tooth development** from human foetus, medium stage l.s.
Ho317f **Tooth development** from human foetus, later stage l.s.
Ho322e • **Tongue,** human, t.s.
Ho3234f **Tongue,** human, sec. with filiform papillae
Ho3235f **Tongue,** human, sec. with fungiform papillae
Ho324e **Tongue** from human foetus, t.s.
Ho326e • **Soft palate,** human t.s.
Ho327e **Hard palate,** human t.s.
Ho331e • **Oesophagus,** human t.s.
Ho333e **Stomach,** cardiac region, human t.s.
Ho334e • **Stomach,** fundic region, human t.s.
Ho335e **Stomach,** pyloric region, human t.s.



Bone development (intracartilaginous), l.s. of foetal finger

Ho3361e **Stomach** from human foetus, t.s.
Ho3365f **Stomach – duodenum** junction, human, l.s.
Ho337e • **Duodenum**, human t.s.
Ho3373f **Duodenum**, human t.s. mucous glands stained PAS-HE
Ho338e **Jejunum,** human t.s.
Ho339e **Ileum,** human t.s.
Ho340e **Small intestine** from human foetus, t.s.
Ho341e • **Vermiform appendix,** human t.s.
Ho345e • **Colon,** human t.s.
Ho347e **Rectum,** human t.s.
Ho3472f **Rectum-anus** junction, human l.s.
Ho351e • **Parotid gland (Gl. parotis),** human t.s.
Ho352e • **Submaxillary gland (Gl. submandibularis),** human t.s.
Ho353e • **Sublingual gland (Gl. sublingualis),** human t.s.
Ho354e • **Pancreas**, human t.s.
Ho3543e **Pancreas** from human foetus, t.s.
Ho357e • **Liver,** human t.s.
Ho359e **Liver,** human foetus, sec.
Ho3592f **Liver,** human foetus, sec. showing injected vessels
Ho360f **Liver,** human, sec. staining of glycogen
Ho362e • **Gall bladder,** human t.s.

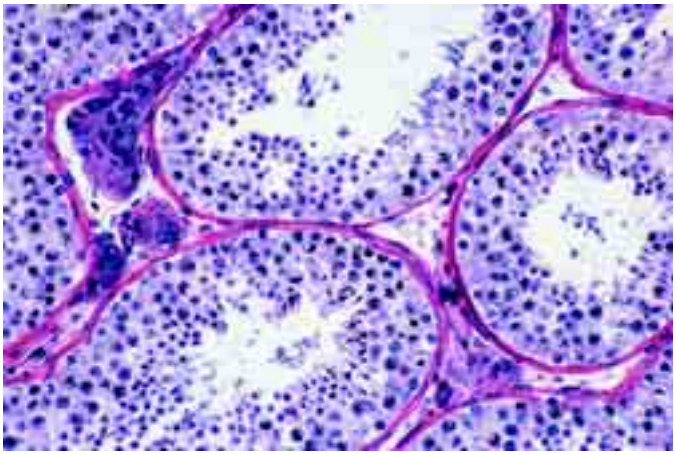
Excretory system

Ho411e • **Kidney,** human t.s.
Ho418e **Renal papilla,** human t.s.
Ho419e **Kidney,** human foetus, t.s.
Ho4195f **Kidney,** human, t.s. showing injected vessels
Ho421e • **Ureter,** human t.s.
Ho422e • **Urinary bladder,** human t.s.
Ho4225e • **Urethra,** human, t.s.
Ho423e **Urethra,** prostatic part, human t.s.

Reproductive system

Ho428f **Ovary**, human foetus, t.s. *
Ho429f • **Ovary**, mature (active phase), human t.s.
Ho430f **Ovary**, senile (inactive phase), human t.s.
Ho434f • **Ovary** with corpus luteum, human t.s.
Ho4343f **Ovary** with corpus albicans, human t.s.
Ho435e • **Oviduct (fallopian tube),** t.s. in region of ampulla
Ho4352e **Oviduct (fallopian tube),** t.s. in region of fimbria
Ho4365f **Uterus,** human foetus, t.s.
Ho4368e • **Uterus,** human, t.s. for general structure
Ho437f **Uterus,** human, proliferative stage t.s.
Ho438f **Uterus,** human, secretory stage t.s.
Ho439f **Uterus,** human, desquamative stage t.s.
Ho4395f **Uterus,** human, pregnant (gravid), t.s.
Ho4397f **Cervix uteri,** human l.s.
Ho440e • **Placenta,** human t.s.
Ho4402f **Placenta,** implantation site, human t.s.
Ho4404e • **Umbilical cord (navel string),** human t.s.
Ho445h **Human foetus,** l.s.
Ho450e • **Vagina**, human t.s.
Ho460f **Testis** from human child, t.s.
Ho461f • **Testis** from human adult, mature stage t.s.
Ho4628e **Efferent tubules** of testis, human t.s.
Ho463e **Epididymis**, human t.s.
Ho464e • **Sperm smear**, human
Ho466e • **Spermatic cord (Ductus deferens),** human t.s.
Ho4663e **Spermatic cord (Ampulla ductus deferens),** human t.s.
Ho467e • **Seminal vesicle (Gl. vesiculosa),** human t.s.
Ho4678e **Prostate** of young man, t.s.
Ho468e • **Prostate** of old man, t.s.
Ho469g **Penis** from human foetus, t.s. *

We will gladly make special offers for any slides or sets which are not listed in our catalogue. Please ask for further information.



Testis t.s. showing spermatogenesis

Nervous system

Ho511e • **Cerebral cortex,** human, t.s. routine stained
Ho512g **Cerebral cortex,** human, t.s. silvered
Ho518g **Cerebral cortex**, human, t.s. stained after Held for neuroglia cells
Ho5125e **Cerebral cortex** from human foetus, t.s. routine stained
Ho5126g **Cerebral cortex** from human foetus, t.s. silvered
Ho514e • **Cerebellum,** human, t.s. routine stained
Ho515g **Cerebellum,** human, t.s. silvered
Ho5155e **Cerebellum** from human foetus, t.s. routine stained
Ho5156g **Cerebellum** from human foetus, t.s. silvered
Ho5158f **Cerebellum,** human, t.s., Weigert stained
Ho516g **Cerebrum and cerebellum** composite slide, human, t.s. routine stained
Ho5163g **Developing brain** of human foetus, sag. sec.
Ho517g **Brain stem,** human t.s.
Ho5368f **Chiasma opticum,** human t.s.
Ho5232f **Chiasma opticum,** human, Klüver - Barrera
Ho5233f **Corpus callosum,** human, Klüver - Barrera
Ho5235f **Pons,** human, t.s. routine stained
Ho5236g **Pons,** human, t.s. silvered
Ho5238f **Thalamus,** human, Klüver - Barrera
Ho5239f **Pendunculus cerebri,** human, Klüver - Barrera
Ho525f • **Medulla oblongata,** human, t.s. routine stained
Ho5251f **Medulla oblongata,** human, t.s. Klüver - Barrera
Ho5252t **Medulla oblongata,** human, t.s. silvered
Ho5254f **Medulla oblongata** from human foetus, t.s.
Ho530e • **Spinal cord,** human, t.s. for general structure
Ho534g **Spinal cord,** human, t.s. silvered
Ho535e **Spinal cord,** human, l.s. routine stained
Ho531e **Spinal cord,** human, t.s. cervical region, routine stained
Ho5315f **Spinal cord,** human, t.s. cervical, Klüver - Barrera
Ho532e **Spinal cord,** human, t.s. thoracic region, routine stained
Ho5325f **Spinal cord,** human, t.s. thoracic, Klüver - Barrera
Ho533e **Spinal cord,** human, t.s. lumbar region, routine stained
Ho5335f **Spinal cord,** human, t.s. lumbar, Klüver - Barrera
Ho5365f **Dorsal root ganglion,** human t.s. routine stained
Ho5366g **Dorsal root ganglion,** human t.s. silvered
Ho542f • **Sympathetic ganglion,** human t.s. routine stained
Ho5423g **Sympathetic ganglion,** human t.s. silvered
Ho543f **Spinal ganglion,** human t.s. routine stained
Ho5432g **Spinal ganglion,** human t.s. silvered
Ho544e • **Peripheral nerve,** human t.s.
Ho545e **Peripheral nerve,** human l.s.
Ho5453f **Peripheral nerve,** human t.s. and l.s.
Ho549e • **Optic nerve,** human t.s.

Organs of sense

Ho605f • **Retina** from eye, human t.s. *
Ho607e • **Cornea** from eye, human t.s.
Ho610f **Wallate papillae** with taste buds, human t.s. *
Ho612f • **Olfactory epithelium**, human t.s.
Ho6103g **Internal ear**, human foetus, t.s. *
Ho5572t **Nerves and nerve endings** in sec. of skin from palm, silvered *
Ho5573f • **Touch corpuscles** in human skin, t.s. routine stained
Ho5574t **Touch corpuscles** in human skin, t.s. silvered *

Integument (Skin)

Ho632e • **Skin from finger tip**, human, vertical l.s.
Ho633e **Skin from palm,** human, vertical l.s.
Ho6334d • **Body skin,** white, vertical l.s.
Ho6335d **Body skin,** negro, vertical l.s.
Ho6336f **Body skin,** white and negro, two vertical l.s.
Ho634e **Skin from armpit** with apocrine glands, vertical l.s.
Ho635d • **Scalp**, vertical l.s. shows l.s. of hair follicles, human
Ho636d • **Scalp**, horizontal l.s. shows t.s. of hair follicles, human
Ho637e **Scalp** of human foetus, vertical l.s. shows l.s. of hairs
Ho638e • **Finger tip** of human foetus, sagittal l.s. showing nail development
Ho639f **Finger nail** l.s.
Ho640e **Eyelid**, human, t.s.
Ho645e • **Mammary gland**, active, human t.s.
Ho646e **Mammary gland**, resting, human t.s.
Ho648e **Mammary gland**, senile, human t.s.

HUMAN PATHOLOGY

Lung and trachea

Pa4101e **Miliary tuberculosis of lung**
Pa4102e **Anthracosis of lung**
Pa4152e **Tuberculous coal lung**
Pa4103e **Croupous pneumonia**
Pa4104e **Chronic tuberculous pulmonary cavity with bacteria** *
Pa4105e **Cyanotic induration of lung**
Pa4106e **Chronic pneumonia**
Pa4107e **Chronic pulmonary emphysema**
Pa4108e **Hemorrhagic infarct of lung**
Pa4109e **Necrotic (cheesy) pneumonia**
Pa4110e **Influenzal pneumonia**
Pa4180e **Pneumonia, sec. of lung**
Pa4250e **Abscessus lumbalis**
Pa4153e **Carcinoma of lung**
Pa4182f **Diphtheria, sec. of trachea** *

Blood, spleen and lymph system

Pa4112e **Infarct of spleen**
Pa4115e **Amyloid degeneration of spleen**
Pa4123e **Erysipelas of spleen**
Pa4113g **Malaria melanemia of spleen**
Pa4111e **Myeloid sarcoma of spleen**
Pa4117e **Chronic myeloid leukemia of spleen**
Pa4124e **Tuberculosis of lymph glands**
Pa4121e **Lymphangio-endothelioma of neck**
Pa4126e **Myeloid sarcoma of lymph node**
Pa4120e **Lymphosarcoma mediastini**
Pa4167e **Tonsillitis, sec. of palatine tonsil**
Pa4122e **Myxoma mandibulae**
Pa4162g **Leukaemia, blood smear** *
Pa4163g **Anaemia, blood smear** *

Heart and vessels

Pa4114e **Myocarditis chronica acute recidivans**
Pa4116e **Adiposis of heart**
Pa4118e **Cardiac callosity**
Pa4119e **Cor villosum**
Pa4160e **Arteriosclerosis**

Glands

Pa4129e **Goiter of thyroid gland, Struma colloides**
Pa4165e **Struma nodosa, thyroid gland**
Pa4164e **Adenoma of thyroid gland, sec.**
Pa4125e **Scirrhous carcinoma of thyroid gland**
Pa4127e **Fibroepithelial mixed tumor of parotid gland**
Pa4128e **Carcinoma medullare glandulae**
Pa4232e **Fibroadenoma of breast**
Pa4237e **Fibroadenoma intracanaliculare of mamma**
Pa4234e **Scirrhous carcinoma of breast**
Pa4247e **Carcinoma solidum simplex of breast**
Pa4159e **Adenoma of adrenal gland**

Intestinal tract

Pa4147e **Necrotic oesophagitis**
Pa4155e **Carcinoma of stomach**
Pa4154e **Carcinoma of large intestine**
Pa4137e **Adenocarcinoma of colon**
Pa4184e **Thickening of intestine**
Pa4185f **Bleeding of intestine by sublimate poisoning**
Pa4166e **Inflammation of appendix**
Pa4132e **Gelatinous carcinoma of rectum**
Pa4138e **Colitis dysenterica Shiga-Kruse**

Liver

Pa4130e **Miliary tuberculosis of liver**
Pa4172e **Fatty degeneration of liver**
Pa4133e **Parenchymatous and fatty degeneration of liver**
Pa4148e **Parenchymatous degeneration of liver**
Pa4143e **Amyloid degeneration of liver**
Pa4203e **Liver cirrhosis**
Pa4134e **Pigmentary cirrhosis of liver**
Pa4141e **Cyanotic atrophy of liver (nutmeg liver)**
Pa4144e **Brown atrophy of liver**
Pa4142e **Hemorrhagic necrosis of liver (eclampsia)**
Pa4135e **Hemosiderosis of liver**
Pa4146e **Icterus hepatis**
Pa4149e **Cavernous hemangioma of liver**
Pa4173e **Liver carcinoma**

Pa4140e **Carcinoma of liver, primary**
Pa4136e **Metastasis of liver**
Pa4174e **Peritoneal metastasis of hepatoma**
Pa4201e **Liver metastasis from a melanosarcoma recti**
Pa4145e **Lymphatic leukemia of liver**
Pa4191e **Inflammation of gall bladder,**
Pa4202e **Malignant tumor of gall bladder**
Pa4150f **Congenital syphilis of liver (feuerstein liver)** *
Pa4131g **Congenital syphilis of liver, silvered for spirochaetes** *
Pa4139f **Cirrhosis hepatis luetica** *

Kidney and urinary organs

Pa4213e **Tuberculosis of kidney**
Pa4215e **Parenchymatous degeneration of kidney**
Pa4207e **Amyloid degeneration of kidney**
Pa4218e **Glycogenosis of kidney**
Pa4216e **Acute nephritis**
Pa4217e **Acute hemorrhagic nephritis (bleeding of kidney)**
Pa4206e **Chronic glomerulonephritis**
Pa4210e **Septic embolic nephritis**
Pa4205e **Cardiac kidney (icterus, jaundice)**
Pa4219e **Glomerularatrophy of kidney (cirrhosis)**
Pa4221e **Hypernephroma of kidney**
Pa4175g **Syphilis of kidney**
Pa4181e **Papilloma of urinary bladder**

Reproductive organs

Pa4224e **Cyst of ovary**
Pa4211e **Cystadenoma papilliferum of ovary**
Pa4220e **Adenoma of ovary**
Pa4222e **Malignant ovarian tumor**
Pa4169e **Teratoma of ovary**
Pa4204e **Myoma of uterus**
Pa4226e **Fibromyoma uteri**
Pa4209e **Carcinoma cervicis uteri**
Pa4212e **Papilloma of uterine fundus**
Pa4188e **Atrophy of testis**
Pa4214f **Undescended testicle with hyperplasia of Leydig's cells**
Pa4187e **Testis, icterus (jaundice)**
Pa4223e **Sarcoma of testicle**
Pa4208f **Gumma of testicle**
Pa4189f **Inhibition of spermatogenesis, testis** (subject to hormone disorder) *
Pa4225e **Hypertrophy of the prostate**
Pa4190e **Carcinoma of praeputium**

Nervous system

Pa4227e **Glioma cerebri**
Pa4228e **Ganglioneuroma myelinicum (neuroma)**
Pa4161f **Meningitis**

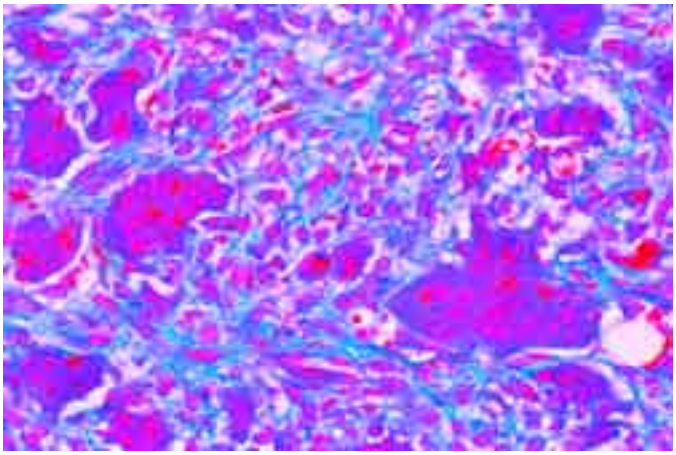
Skin, locomotor system

Pa4231e **Hemangioma simplex hypertrophicum subcutaneum**
Pa4230e **Foreign body granuloma with hemosiderin and giant cells**
Pa4229e **Organized venous thrombosis of muscle**
Pa4248e **Fat embolism after fracture of the leg**
Pa4244e **Zenker's degeneration of M. rectus abdominis (influenza)**
Pa4242e **Myxofibroma of abdominal wall**
Pa4241e **Myxoma of thigh**
Pa4239e **Sarcoma of thigh**
Pa4240e **Fibroma of skin**
Pa4245e **Basaloma**
Pa4235e **Chondroma of pubic bone**
Pa4238e **Melanosarcoma of skin**
Pa4156e **Carcinoma of squamous epithelium of skin**
Pa4233e **Spindle cell sarcoma**
Pa4236f **Giant cell sarcoma of maxilla** *
Pa4243e **Atheroma of head** *
Pa4249g **Pustule of variola vera** *
Pa4246e **Cicatricial tissue**

EMBRYOLOGY

Embryology of the mussel (Bivalvia, Pelecypoda)

Em211e **Mussel embryology** (Lamellibranchiata, Bivalvia or Pelecypoda). Unfertilized and fertilized ova w.m. *
Em213e **Mussel embryology.** Zygote, two-cell and four-cell embryos w.m.
Em215s **Mussel embryology.** Early zygote through late cleavage. Polar bodies, polar lobes and spiral cleavage *
Em217e **Mussel embryology.** Blastula w.m. *
Em218e **Mussel embryology.** Gastrula w.m. *
Em219f **Mussel embryology.** Trochophore larva w.m. *
Em221s **Mussel embryology.** Veliger larvae, early and later stages *
Em223e **Mussel embryology.** Veliger larva w.m. *
Em225e **Mussel embryology.** Glochidia larva w.m.



Giant cell sarcoma of maxilla, t.s.

Embryology of insecta

Em301g **Acheta,** cricket, egg showing maturation division w.m. *
Em302g **Acheta,** superficial cleavage *
Em3021g **Acheta.** first cleavage w.m. *
Em303g **Acheta,** superficial cleavage, nuclei migrating to surface *
Em304g **Acheta,** w.m. of egg showing formation of germ layer *
Em305g **Acheta,** w.m. of egg with young germ *
Em306g **Acheta,** w.m. of egg shows early blastokinesis, germ starts to roll in *
Em307g **Acheta,** w.m. of egg shows late blastokinesis, germ with limb buds *
Em308g **Acheta,** w.m. of egg showing rolling out of the germ *
Em309f **Insect,** t.s. of egg showing nuclei migrating to surface, cleavage
Em310f **Insect,** t.s. of egg showing superficial cleavage in the blastoderm
Em311f **Insect,** t.s. of egg showing young germ with primitive streak
Em312f **Insect,** t.s. of egg showing formation of amnion and serosa
Em313f **Insect,** t.s. of egg showing fusion of the embryonic envelopes
Em314f **Insect,** t.s. of older germ showing process of differentiation in ectoderm and mesoderm
Em315f **Insect,** t.s. of older germ in region of head
Em316g **Carausius,** walking stick, w.m. of germ with primordium of head, limb buds, neural groove, coelom *
Em317f **Carausius,** sagittal l.s. of egg with early germ
Em318f **Carausius,** sagittal l.s. of egg with medium germ
Em319f **Carausius,** sagittal l.s. of egg with later germ
Em320f **Carausius,** sagittal l.s. of egg with germ ready for hatching

Embryology of the sea-urchin (Psammechinus miliaris)

Em411d **Sea-urchin** embryology (Psammechinus miliaris), unfertilized eggs w.m.
Em412d **Sea-urchin** embryology. Fertilized eggs w.m.
Em413d **Sea-urchin** embryology. Two cells w.m.
Em414d **Sea-urchin** embryology. Four cells w.m.
Em415d **Sea-urchin** embryology. Eight cells w.m.
Em416d **Sea-urchin** embryology. Sixteen cells w.m.
Em417d **Sea-urchin** embryology. Thirty two cells w.m.
Em418d **Sea-urchin** embryology. Morula w.m.
Em419d **Sea-urchin** embryology. Blastula w.m.
Em420d **Sea-urchin** embryology. Beginning gastrulation w.m.
Em421d **Sea-urchin** embryology. Progressive gastrulation w.m.
Em422d **Sea-urchin** embryology. Pluteus larva w.m.

Embryology of the starfish (Asterias rubens)

Em431d **Starfish** embryology (Asterias rubens). Ovary t.s. showing ova of large size
Em432d **Starfish** embryology. Testis t.s. with developing sperm
Em434e **Starfish** embryology. Sperm smear
Em435e **Starfish** embryology. Germinal vesicle stage w.m.
Em436e **Starfish** embryology. Unfertilized ova w.m.
Em437e **Starfish** embryology. Fertilized ova w.m. Zygote with polar bodies
Em438e **Starfish** embryology. Two cell stage w.m.
Em439e **Starfish** embryology. Four cell stage w.m.
Em440e **Starfish** embryology. Eight cell stage w.m.
Em441e **Starfish** embryology. Sixteen cell stage w.m.
Em443e **Starfish** embryology. Thirty-two cell stage w.m.
Em444e **Starfish** embryology. Sixty-four cell stage w.m.
Em447e **Starfish** embryology. Early and late blastula w.m.
Em448e **Starfish** embryology. Early and late gastrula w.m.
Em451f **Starfish** embryology. Early bipinnaria larva w.m.
Em452f **Starfish** embryology. Late bipinnaria larva w.m.
Em456s **Starfish** embryology. Brachiolaria larva w.m.
Em458s **Starfish** embryology. Young starfish w.m.

The combination of prepared microscope slides and colour photomicrographs has decisive advantages for teaching. We have a large selection of colour photomicrographs (p. 75 – 100 in this catalogue), for use in conjunction with our prepared microscope slides

Chicken embryo, 72 hour, t.s. of abdominal region

Embryology of the Amphioxus (Branchiostoma)

Em511g **Branchiostoma** embryology. Unfertilized ova w.m. *
Em516k **Branchiostoma** embryology. Two to sixteen cells stage w.m. *
Em519g **Branchiostoma** embryology. Thirty-two and sixty-four cells stage w.m. *
Em522g **Branchiostoma** embryology. Blastula stage w.m. *
Em524g **Branchiostoma** embryology. Gastrula stage w.m. *
Em526g **Branchiostoma** embryology. Early larva w.m. *
Em528g **Branchiostoma** embryology. Late larva w.m. *

Embryology of the frog (Rana sp.)

Em601f **Frog,** uncleaved egg, t.s.
Em602f **Frog,** egg, two cells (first cleavage) l.s.
Em603f **Frog,** egg, four cells (second cleavage) t.s.
Em604f **Frog,** egg, eight cells (third cleavage) l.s.
Em6045f **Frog,** egg, sixteen cells l.s.
Em605f **Frog,** morula l.s. with micro- and macromeres
Em606f **Frog,** blastula l.s. showing blastocoel
Em607f **Frog,** early gastrula, sagittal l.s. shows formation of germ layers and dorsal lip
Em608f **Frog,** later gastrula (yolk plug stage), sagittal l.s. with germ layers, yolk plug, blastocoel, primary intestinal cavity
Em609f **Frog,** early neurula, t.s. shows the neural plate
Em610f **Frog,** medium neurula, t.s. shows the neural groove
Em611f **Frog,** late neurula with neural tube, t.s. through the intestinal region
Em612f **Frog,** late neurula with neural tube, t.s. through the frontal region
Em613f **Frog,** late neurula with neural tube, sagittal l.s.
Em614f **Frog,** early tail bud stage, t.s. of head region
Em615f **Frog,** early tail bud stage, t.s. of body region
Em616f **Frog,** early tail bud stage, sagittal l.s.
Em617g **Frog,** early tail bud stage, near median sagittal l.s. with forebrain, neural tube, notochord, digestive tract *
Em618f **Frog,** late tail bud stage, t.s. of head region
Em619f **Frog,** late tail bud stage, t.s. of body region with processes of differentiation in mesoderm
Em6195f **Frog,** late tail bud stage, t.s. in region of pronephros
Em620f **Frog,** late tail bud stage, frontal l.s. with differentiation of coelom sacs
Em621f **Frog,** hatching stage, t.s. of head with developing eyes
Em622f **Frog,** hatching stage, t.s. through region of heart, gills
Em623f **Frog,** hatching stage, t.s. of midbody
Em624f **Frog,** hatching stage, sagittal l.s.
Em625e **Frog,** young tadpole, t.s. of head
Em626e **Frog,** young tadpole, t.s. of gill region
Em627e **Frog,** young tadpole, t.s. of abdomen
Em628f **Frog,** young tadpole, sagittal sec.
Em629f **Frog,** young tadpole, frontal (horizontal) sec.
Em630e **Frog,** older tadpole, t.s. of head
Em631e **Frog,** older tadpole, t.s. of gill region
Em632e **Frog,** older tadpole, t.s. in region of heart and lungs
Em633e **Frog,** older tadpole, t.s. of abdomen
Em6333f **Frog,** older tadpole, sagittal sec.
Em634f **Frog,** older tadpole, section through limb bud

Embryology of the chicken (Gallus domesticus)

Em701f **Chicken,** 12 hour, t.s. through primitive streak
Em702g **Chicken,** 12 – 24 hour, l.s. through primitive streak *
Em703f **Chicken,** 12 – 24 hour, t.s. with neural plate
Em704f **Chicken,** 24 hour, t.s. with neural groove, notochord, germinal layers, somites
Em7042f **Chicken,** 24 hour, t.s. head fold region t.s.
Em7043f **Chicken,** 24 hour, t.s. intestinal region
Em7044f **Chicken,** 24 hour, t.s. pericardial region t.s.
Em7047f **Chicken,** 24 hour, l.s.
Em705f **Chicken,** 36 hour, t.s. with neural tube, notochord, differentiation of mesoderm (myotom, nephrotom and splanchnotom)
Em706f **Chicken,** 36 hour, t.s. of anterior region with developing heart (pericardial region)
Em708g **Chicken,** 36 – 48 hour, sagittal l.s., formation of the somites *
Em709f **Chicken,** 48 hour, t.s. of head
Em710f **Chicken.** 48 hour, t.s. region of heart
Em711f **Chicken,** 48 hour, t.s. showing neural tube, mesoderm
Em712g **Chicken,** 48 hour, sagittal l.s. through primitive node, formation of coelom, Vena terminalis *
Em713g **Chicken,** 48 – 60 hour, horizontal l.s. with brain, heart, and somites *
Em714f **Chicken,** 60 hour, t.s. of head
Em715f **Chicken,** 60 hour, t.s. of heart
Em716f **Chicken,** 60 hour, t.s. of abdominal region
Em717f **Chicken,** 72 hour, t.s. of brain
Em718f **Chicken,** 72 hour, t.s. in region of heart and eyes
Em719f **Chicken,** 72 hour, t.s. in caudal region of heart
Em720f **Chicken,** 72 hour, t.s. in abdominal region
Em722g **Chicken,** 72 hour, horizontal l.s.
Em723f **Chicken,** 4 – 5 days, t.s. of head
Em724f **Chicken,** 4 – 5 days, t.s. in region of heart and eyes
Em725f **Chicken,** 4 – 5 days, t.s. in abdominal region
Em726g **Chicken,** 4 – 5 days, sagittal l.s. *
Em727f **Chicken,** 8 days, t.s. of brain
Em728f **Chicken,** 8 days, t.s. through eyes
Em729f **Chicken,** 8 days, t.s. in region of gill slits
Em730f **Chicken,** 8 days, t.s. in region of heart and lungs
Em731f **Chicken,** 8 days, t.s. in region of intestine and liver
Em732f **Chicken,** 8 days, t.s. in region of intestine and kidney
Em733g **Chicken,** 8 days, sagittal l.s. of entire specimen *
Em751h **Chicken,** 16 hour, w.m. showing primitive streak *
Em752h **Chicken,** 18 hour, w.m. *
Em753i **Chicken,** 21 hour, w.m. *
Em754i **Chicken,** 24 hour, w.m. showing neural groove *
Em756g **Chicken,** 28 hour, w.m. showing heart and blood vessels *
Em758i **Chicken,** 33 hour, w.m. formation of the somites *
Em760g **Chicken,** 40 hour, w.m. flexion of the anterior end *
Em761i **Chicken,** 43 hour, w.m. *
Em762i **Chicken,** 48 hour, w.m. formation of the coelom *
Em764h **Chicken,** 56 hour, w.m. gill arches can be seen *
Em766t **Chicken,** 66 hour, w.m. progression of gill arches and other structures *
Em768k **Chicken,** 72 hour, w.m. with well developed limb buds *
Em770t **Chicken,** 80 hour. w.m. more advanced stage of organ development *
Em772k **Chicken,** 96 hour, w.m. allantois outside the body *

Embryology of the pig (Sus scrofa)

Em811h **Pig** embryo, 4 mm, sagittal l.s. *
Em813g **Pig** embryo, 4 mm, typical t.s. *
Em821h **Pig** embryo, 6 mm, sagittal l.s. *
Em823g **Pig** embryo, 6 mm, typical t.s. *
Em831h **Pig** embryo, 8 mm, sagittal l.s.
Em833g **Pig** embryo, 8 mm, typical t.s.
Em841g **Pig** embryo, 11 – 12 mm, sagittal l.s.
Em843k **Pig** embryo, 11 – 12 mm, near median sagittal l.s. *
Em845g **Pig** embryo, 11 – 12 mm, frontal l.s.
Em846f **Pig** embryo, 11 – 12 mm, typical t.s.
Em847h **Pig** embryo, 11 – 12 mm, three typical t.s. through head, thorax and abdomen
Em848k **Pig** embryos, 6, 8, and 11 mm, three typical t.s. *
Em849k **Pig** embryos, 6, 8, and 11 mm, three typical sagittal l.s. *
Em851g **Pig** embryo, 15 mm, sagittal l.s.
Em852k **Pig** embryo, 15 mm, near median l.s. *
Em853g **Pig** embryo, 15 mm, frontal l.s.
Em854f **Pig** embryo, 15 mm, head t.s.
Em855f **Pig** embryo, 15 mm, thorax t.s.
Em856f **Pig** embryo, 15 mm, abdomen t.s.
Em858i **Pig** embryo, 15 mm, three typical t.s. through head, thorax, and abdomen
Em861g **Pig** embryo, 20 – 25 mm, sagittal l.s.
Em862i **Pig** embryo, 20 – 25 mm, near median sagittal l.s.
Em863g **Pig** embryo, 20 – 25 mm, frontal l.s.
Em865f **Pig** embryo, 20 – 25 mm, head t.s.
Em866f **Pig** embryo, 20 – 25 mm, thorax t.s.
Em867f **Pig** embryo, 20 – 25 mm, abdomen t.s.
Em869i **Pig** embryo, 20 – 25 mm, three typical t.s. through head, thorax, and abdomen

BACTERIA

Spherical bacteria, cocci

Ba117e • **Diplococcus pneumoniae,** causing croupous pneumonia, smear
Ba118d **Gaffkya tetragena,** occuring as tetrads, smear
Ba113d **Micrococcus roseus,** smear from culture
Ba110e **Neisseria catarrhalis,** smear from culture
Ba111f • **Neisseria gonorrhoeae,** causing gonorrhoea, smear *
Ba1113e • **Neisseria meningitidis (intracellularis),** causing epidemic meningitis, smear from culture *
Ba114d • **Sarcina lutea,** chromogenic rods occuring in packets
Ba112d • **Staphylococcus aureus,** pus organism, smear from culture
Ba1123d **Staphylococcus epidermidis,** smear from culture
Ba1163d **Streptococcus faecalis,** smear from culture
Ba116d • **Streptococcus lactis,** milk souring organism, smear from culture showing short chains
Ba115e • **Streptococcus pyogenes,** smear from pus showing long chains
Ba1151d **Streptococcus pyogenes,** smear from culture showing short chains
Ba1165f **Hemolytic streptococci,** blood poisoning, blood smear

Rod-shaped bacteria, non spore-forming, gram-positive

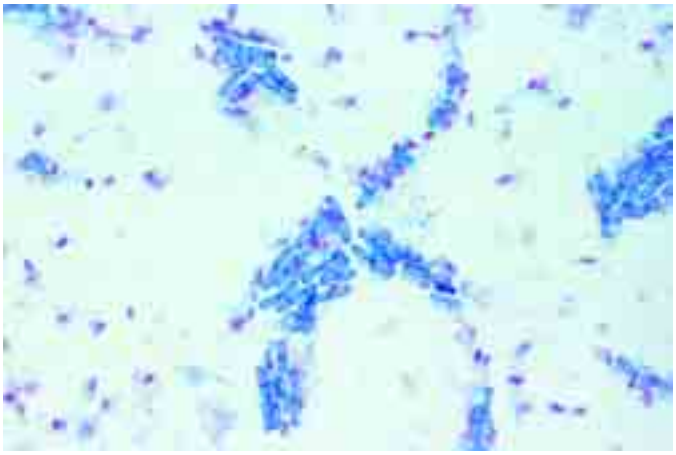
Ba136d • **Corynebacterium diphtheriae,** smear from culture
Ba137f **Corynebacterium diphtheriae,** stained to show the polar bodies
Ba127d • **Lactobacillus bulgaricus (Thermobacterium),** Yoghurt bacteria (Bulgarian soured milk), from culture
Ba1272e **Lactobacillus casei,** cheese and other milk products
Ba135h **Mycobacterium leprae,** causing leprosy, smear or tissue section *
Ba131d **Mycobacterium tuberculosis,** smear from culture
Ba132e • **Mycobacterium tuberculosis,** smear from positive sputum stained after Ziehl-Neelsen
Ba133g **Mycobacterium tuberculosis,** section of infected tissue, bacteria stained *

Rod-shaped bacteria, non spore-forming, gram-negative

Ba153d • **Acetobacter aceti,** manufacture of vinegar, smear
Ba1385d **Aerobacter aerogenes,** smear from culture
Ba155d • **Azotobacter,** rods from soil, smear
Ba139e **Bacterium erysipelatos** (Erysipelothrix rhusiopathiae), smear *
Ba151d **Bacterium prodigiosum** (Serratia marcescens), formation of red pigment, smear
Ba1502d • **Brucella abortus,** causing abortation in cattle (Bang disease), smear
Ba144d • **Eberthella typhi,** causing typhoid fever, smear
Ba1416e **Erwinia amylovora,** occuring in short chains, causing pear blight, smear
Ba1417e **Erwinia caratovora,** causing soft root in vegetables, smear
Ba1418e **Erwinia caratovora,** section showing bacterial infection of tissue
Ba143d • **Escherichia coli,** colon bacteria, smear
Ba150d • **Hemophilus influenzae (Pfeiffer),** smear
Ba138e • **Klebsiella pneumoniae (Friedlander),** causing pneumonia smear
Ba158f **Pasteurella (Yersinia) pestis,** bubonic plague, smear
Ba1505d **Pasteurella pseudotuberculosis,** smear from culture
Ba142d • **Proteus vulgaris,** putrefaction, smear from culture
Ba1425d **Pseudomonas aeruginosa,** smear from culture
Ba1426e **Pseudomonas solonacearum,** causes tobacco bacterial wilt, smear
Ba1427e **Pseudomonas solonacearum,** t.s. stem with bacteria in tissue *
Ba141d • **Rhizobium radicicola,** smear from culture
Ba140d **Rhizobium radicicola,** nitrogen fixing organisms, section through root nodule of lupin showing bacteria in situ
Ba146d • **Salmonella enteritidis,** causes meat poisoning, smear
Ba145d • **Salmonella paratyphi,** paratyphoid fever, smear
Ba147d **Salmonella pullorum,** chicken disease, smear
Ba149d • **Shigella dysenteriae,** causes bacillary dysentery, smear
Ba1493d **Shigella sonnei,** smear from culture
Ba1428e **Xanthomonas phaseoli,** causing bacterial bean blight, sec. through the infected tissue

Rod-shaped bacteria, spore-forming (bacilli)

Ba1263d • **Bacillus anthracis,** smear from culture
Ba125f **Bacillus anthracis,** causes wool sorter's disease, smear from infected spleen. Olt's capsule stain
Ba1265f **Bacillus anthracis,** spores stained *
Ba126g **Bacillus anthracis,** in section through infected tissue *
Ba120d **Bacillus cereus,** bacteria from soil, smear from culture
Ba1202f **Bacillus cereus,** spores stained
Ba134d **Bacillus larvae,** bee disease, smear
Ba124d **Bacillus megaterium,** from soil, smear from culture
Ba123d • **Bacillus mesentericus,** smear from culture
Ba122d • **Bacillus mycoides,** large soil organisms growing in chains
Ba121d • **Bacillus subtilis,** hay bacillus, smear showing bacilli and spores doubly stained
Ba1303e • **Clostridium botulinum,** causing food poisoning, smear
Ba1285d **Clostridium perfringens,** causing gas gangrene, smear
Ba1287f **Clostridium perfringens,** smear stained to show spores
Ba128d **Clostridium septicum,** smear from culture
Ba130f • **Clostridium tetani,** special stained to show the terminal spores by the Ziehl-Neelsen method
Ba129e **Clostridium tetani,** causing lockjaw, smear



Bacillus subtilis, hay-bacilli, Ziehl-Neelsen stained

Spiral bacteria and spirochaetes

Ba164f • **Vibrio comma,** causing Asiatic cholera, smear
Ba161e • **Spirillum volutans,** a very large spirillum, smear *
Ba162d **Spirillum serpens,** from putrid water, smear
Ba163d **Spirillum undula,** in stagnant water, smear
Ba165d • **Rhodospirillum rubrum,** chromogenic rods, smear
Ba167g • **Borrelia duttoni (Spirochaeta recurrentis),** causes Central african relapsing fever, blood smear with organisms *
Ba170h • **Treponema pallidum (Spirochaeta pallida),** section through syphilitic lesion stained by Levaditi's silver method *

Miscellaneous groups

Ba1528d **Actinomyces alni,** sec. of root nodule showing mycorrhiza of alder
Ba1526f **Actinomyces bovis,** causing lumpy jaw, section through infected tissue
Ba1525e **Actinomyces,** causing lumpy jaw, smear
Ba157e **Caulobacter,** stalk bacterium, smear
Ba193d **Galionella,** iron bacteria, smear
Ba191d **Methanobacterium,** forming methane, smear
Ba190d • **Sphaerotilus natans,** from putrid water, long chains with sheaths
Ba152d • **Streptomyces griseus,** streptomycin antibiotic, smear
Ba192d **Thiocystis or Lamprocystis,** sulphur bacteria, smear
Ba250e **Tobacco mosaic,** a virus disease, sec. of infected leaf *

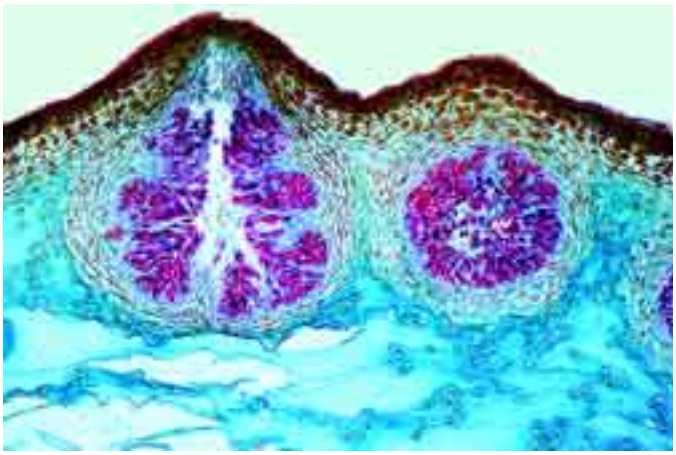
Typical bacteria, composite slides

Ba171d • **Bacteria from mouth,** Gram positive and negative bacteria can be observed in this slide, ideal for demonstration
Ba201e • **Typical bacteria:** three smears on one slide, cocci, bacteria and spirilli are shown, carefully stained
Ba203e • **Mixed bacteria:** slide showing mixed species from a number of different pure cultures
Ba2061d **Typical coccus,** round-shaped, Gram-negative, smear
Ba2062d **Typical coccus,** round-shaped, Gram-positive, smear
Ba2071d **Typical cocci in chains** (streptococci), smear
Ba2072d **Typical cocci in clumps** (staphylococci), smear
Ba2051d **Typical bacillus,** rod-shaped, Gram negative, smear
Ba2052d **Typical bacillus,** rod-shaped, Gram-positive, smear
Ba2065d **Typical bacilli in chains** (streptobacilli), smear
Ba209d **Typical spirilli,** spiral- or comma-shaped, smear
Ba181d **Bacteria from bread,** direct smear
Ba182d **Bacteria from cheese,** smear or section
Ba183d **Bacteria from sour milk,** smear
Ba184d **Bacteria from human intestine,** smear
Ba185d **Bacteria from yoghurt,** smear
Ba186d **Bacteria from sauerkraut,** smear
Ba187d **Bacteria from hay infusion** causing decomposition, smear

Cytological slides, special staining techniques

Ba2081d **Typical mixed bacteria**, including Gram-positive and Gram-negative rods, smear
Ba210g **Lophotrichous flagella** on Spirillum, specially stained *
Ba212g **Monotrichous flagella** on Vibrio or Pseudomonas, spec. stained *
Ba211g **Peritrichous flagella** on Salmonella or Proteus, spec. stained *
Ba221f **Capsule stain** (Klebsiella pneumoniae), smear specially stained
Ba224g **Nuclear stain** (Bacillus cereus), smear specially stained for nuclear material (DNA) *
Ba225t **Cell division** (Bacillus cereus), Feulgen stain *
Ba229f **Metachromatic granules** or polar bodies (Corynebacterium diphtheriae), smear specially stained
Ba226f **Spore stain** (Bacillus subtilis), smear doubly stained with central spores
Ba228f **Spore stain** (Clostridium botulinum), smear doubly stained with subterminal spores

We will gladly make special offers for any slides or sets which are not listed in our catalogue. Please ask for further information.



Fucus vesiculosus, seaweed, male conceptacle with antheridia, t.s.

ALGAE

Cyanophyceae – Blue-Green Algae

Ag111c • **Oscillatoria,** a blue-green filamentous alga w.m.
Ag112d **Oscillatoria,** thin sections specially stained to show the nuclear material
Ag1123c **Oscillatoria,** mucous sheath stained, w.m.
Ag113c • **Nostoc,** w.m. shows filaments and heterocysts
Ag114d **Nostoc,** section for finer details of filaments and sheaths
Ag1146f **Nostoc** or other blue-green alga, special preparation for nuclear material, Feulgen stain *
Ag1145d **Nostoc gunnerae,** symbiotic algae living in the stem of Gunnera, section
Ag1147c **Nostoc zetterstettii,** a gelatinous alga, unbranched filaments, w.m.
Ag1148c **Nostoc caeruleum,** unbranched filaments, w.m.
Ag1151f **Anabaena or Oscillatoria,** nuclear stain
Ag115c • **Anabaena,** thread shaped blue-green algae with heterocysts w.m.
Ag1156d **Aphanizomenon,** single filaments of various length w.m.
Ag1157d **Aphanothece,** small single cells in colonies w.m.
Ag1153d **Arthrospira,** filaments in regular spirals w.m.
Ag1205c **Beggiatoa,** a colourless alga showing lack of chlorophyll
Ag117c • **Chroococcus,** large single celled blue-green algae w.m.
Ag1162d **Cylindrospermum,** with heterocysts and spores w.m.
Ag1152d **Fischerella (Hapalosiphon),** branched filaments w.m.
Ag116c • **Gloeocapsa,** small colonies within sheaths w.m.
Ag119c • **Gloeotrichia,** forming akinetes w.m.
Ag1166d **Lyngbya,** filamentous algae within sheaths w.m.
Ag1164d **Merismopedia,** flat colonies w.m.
Ag1176c • **Microcystis,** irregular colonies w.m.
Ag1207d **Ophridium versatile,** a gelationous alga, filaments with heterocysts
Ag118c **Rivularia,** with basal heterocysts w.m.
Ag120c **Scytonema,** trichomes with false branchings w.m.
Ag1172d **Spirulina,** unicellular spirals w.m.
Ag1174d **Stigonema,** branched thallus w.m.
Ag1155c **Tolypothrix,** a blue-green alga with false branchings w.m.
Ag1201d **Mixed blue-green algae,** many different species in one slide for comparison w.m.

Diatomeae

Ag121c • **Diatoms,** recent from fresh water, mixed species
Ag122c • **Diatoms,** fossil from fresh water, mixed species
Ag123c • **Diatoms,** recent marine, mixed species
Ag124c • **Diatoms,** fossil marine, mixed species
Ag131d • **Diatoms,** fixed and stained to show the chromatophores
Ag1321d **Diatoms** from fresh water, fixed and stained to show the chromatophores
Ag1322d **Diatoms** marine, fixed and stained to show the chromatophores
Ag133c **Diatomeous earth,** a mixture of various fossil diatoms
Ag141f **Pleurosigma angulatum,** for testing microscope resolution, n_D 1,0
Ag142f **Surirella gemma,** for testing microscope resolution, n_D 1,0
Ag143d **Synedra ulna,** species from fresh water
Ag144e **Arachnoidiscus,** central marine diatoms
Ag1441e **Coscinodiscus,** central marine diatoms, mixed species
Ag1442e **Triceratium and Tricnaria,** triangular marine diatoms
Ag149d **Silicoflagellates,** Distephanus and others, w.m.

Conjugatae

Ag151c • **Spirogyra,** a common alga with spiral chloroplasts, w.m. of vegetative filaments, carefully stained. The standard slide for general study.
Ag1512d **Spirogyra,** vegetative w.m., a large species with several chloroplasts in each cell
Ag1513d **Spirogyra,** vegetative w.m., a small species with single chloroplast in each cell
Ag152e • **Spirogyra,** in scalariform conjugation and after the stage of conjugation, w.m.
Ag153e **Spirogyra,** showing formation of zygotes w.m.
Ag154e **Spirogyra,** in lateral conjugation w.m. *
Ag1542e **Spirogyra,** in scalariform conjugation showing zygotes w.m., a large species with several chloroplasts in each cell
Ag155c • **Zygnema,** vegetative filaments with stellate chloroplasts w.m.
Ag156e **Zygnema,** in conjugation and after conjugation with zygotes w.m.
Ag1565c **Mougeotia,** a filamentous alga with flat chloroplasts w.m.
Ag158d **Cosmarium,** a common desmid with isthmus w.m.
Ag157d • **Closterium,** a crescent-shaped desmid w.m.
Ag159d **Mesothaenium,** a small rod-shaped desmid w.m.
Ag160d • **Micrasterias,** large plate-shaped desmids w.m.
Ag161d **Staurastrum,** double cells with spines w.m.
Ag162d **Hyalotheca,** a filamentous desmid w.m.
Ag165e • **Mixed desmids** of various forms, strewn slide w.m.

Chlorophyceae – Green Algae

Ag1923e **Acetabularia,** a marine species with an umbrella-shaped thallus w.m.
Ag1925d **Bryopsis,** marine green algae w.m.
Ag1722d **Bulbochaete,** sessile filaments w.m.
Ag1725d **Carteria,** unicellular algae with four flagella w.m.
Ag1907d **Chaetophora,** thallus with many branches w.m.
Ag171c • **Chlamydomonas,** small biflagellate algae w.m.
Ag1711f **Chlamydomonas,** specially stained to show the flagella *
Ag191c • **Chlorella,** small unicellular green algae, w.m.
Ag1902d **Chlorococcus,** living on ground, hollowsphere-shaped chloroplasts
Ag182c • **Cladophora,** branching filaments with multinucleate cells w.m.
Ag1904d **Coelastrum,** cell colonies w.m.
Ag1908d **Coleochaete,** a soil species w.m.
Ag183c • **Draparnaldia,** main filaments and clusters of branches w.m.
Ag1723d **Dysmorphococcus,** flagellate algae with shells w.m.
Ag192d • **Enteromorpha,** seaweed, inflated narrow frond w.m.
Ag1757d **Eremosphaera,** large unicellular green algae w.m.
Ag174d • **Eudorina,** spherical colonies of thirty-two cells w.m.
Ag172d • **Gonium pectorale,** plate-like colonial forms w.m.
Ag1721f **Gonium sp.,** specially stained to show the flagella *
Ag1715c • **Haematococcus,** unicellular red biflagellate algae w.m.
Ag180d • **Hydrodictyon,** water net alga, w.m.
Ag184c • **Oedogonium,** a common filamentous green alga without branches, vegetative filaments w.m.
Ag188d **Oedogonium,** macrandrous with oogonia w.m.
Ag189d **Oedogonium,** nannandrous with dwarf males w.m.
Ag173d • **Pandorina,** spherical colonies of sixteen cells or smaller w.m.
Ag177d • **Pediastrum,** star-shaped flat colonies w.m.
Ag1724d **Pithophora,** branched tropic green algae w.m.
Ag1743d **Platydorina,** horseshoe-shaped coenobium showing the flagella w.m.
Ag1742d **Pleodorina,** colonies with cells of different size w.m.
Ag179c • **Pleurococcus (Protococcus),** small colonies growing on bark, w.m.
Ag1905d **Protosiphon,** living on ground, with rhizoids w.m.
Ag178d • **Scenedesmus,** colonies of four cells w.m.
Ag1832d **Stigeoclonium,** main filaments and simple branches w.m.
Ag1756d **Tetracystis,** earth algae, groups of four cells w.m.
Ag1755d **Tetraspora,** cells in a gelatinous layer w.m.
Ag181c • **Ulothrix,** simple filaments with girdle-shaped chloroplasts w.m.
Ag185d • **Ulva,** sea lettuce, a marine green alga, w.m. of thallus
Ag1852d **Ulva,** w.m. of thallus with developing gametes
Ag1862e • **Vaucheria geminata,** sexual stages on lateral branches w.m.
Ag186d **Vaucheria sessilis,** showing sexual stages w.m.
Ag175e • **Volvox,** spherical colonies with daughter colonies and sexual stages w.m.
Ag1752f **Volvox,** flattened and specially stained to show flagella
Ag1916d **Mixed flagellates,** many different species for comparison w.m.
Ag1915d **Mixed green algae,** many different species for comparison w.m.

Chrysophyceae – Golden Algae

Ag195d • **Dinobryon,** a golden alga forming colonies w.m.
Ag197d **Hydrurus,** golden alga in a gelatinous matrix w.m.
Ag199d **Ochromonas,** a flagellate golden alga w.m.
Ag198d **Tribonema,** a filamentous golden alga w.m.

Charophyceae – Stoneworts

Ag211d • **Chara,** stonewort, thallus with reproductive organs w.m.
Ag212c **Chara,** thallus t.s.
Ag2121e **Chara,** thallus and reproductive organs l.s.
Ag2122e **Chara,** w.m. of mature antheridia showing spermatogenous filaments
Ag2125f **Chara,** thallus with apex l.s. *
Ag213d **Nitella,** thallus with reproductive organs w.m.

Phaeophyceae – Brown Algae

Ag221d • **Fucus vesiculosus,** seaweed, male conceptacle with antheridia, t.s.
Ag222d • **Fucus vesiculosus,** female conceptacle with oogonia t.s.
Ag2224e **Fucus vesiculosus** composite slide, t.s. of male and female conceptacles of a dioecious species on same slide
Ag223d **Fucus platycarpus,** hermaphrodite conceptacle with antheridia and oogonia, t.s.
Ag2234d **Fucus serratus,** male branch with antheridia, t.s.
Ag2235d **Fucus serratus,** female branch with oogonia t.s.
Ag2236e **Fucus serratus,** male and female branches, two t.s.
Ag237g **Fucus,** l.s. through apical region with apical cell *
Ag239d **Ascophyllum nodosum,** c.s. of male conceptacle
Ag233e **Dictyota,** thallus with tetraspores t.s. *
Ag234e **Dictyota,** thallus with oogonia t.s. *
Ag235e **Dictyota,** thallus with antheridia t.s. *

Ag238g **Dictyopteris,** apical region showing more apical cells *
Ag225d • **Ectocarpus,** plurilocular gametangia or sporangia w.m.
Ag2252d • **Ectocarpus,** unilocular sporangia w.m. *
Ag2393d **Elachista fucicola,** epiphytic living, w.m. of unilocular sporangia
Ag231d **Himanthalia lorea,** male conceptacle with antheridia t.s.
Ag232d **Himanthalia lorea,** female conceptacle with oogonia t.s.
Ag228c • **Laminaria saccharina,** thallus with sporangia t.s.
Ag230d **Pylaiella litoralis,** uni- and plurilocular sporangia w.m.
Ag2302d **Pylaiella litoralis,** w.m. showing formation of swarms-cells
Ag229d **Sargassum,** gulfweed, thallus with conceptacles t.s.
Ag2395d **Sphacelaria sp.,** thallus with bulbs, w.m.

Rhodophyceae – Red Algae

Ag241d • **Polysiphonia** (or Rhodomela), marine red alga, male plant with antheridia w.m.
Ag242d • **Polysiphonia** (or Rhodomela), female plant with cystocarps w.m.
Ag243d • **Polysiphonia** (or Rhodomela), tetraspores w.m.
Ag250d **Audouinella,** a mat-forming fresh water red alga, w.m.
Ag251d **Bangia,** a ligamentous fresh water red alga, w.m. *
Ag246d • **Batrachospermum,** a fresh water red alga, w.m.
Ag244d **Ceramium,** thallus with tetraspores w.m.
Ag2445d **Corallina,** a marine calcareous red alga w.m.
Ag254d **Dasya,** a marine red alga with irregular branchings w.m.
Ag255d **Furcellaria,** marine species w.m.
Ag253d **Lemanea,** a fresh water red alga with tubular cortical layer w.m.
Ag245d • **Nemalion,** thallus with reproductive organs w.m.
Ag252d **Porphyridium,** gelatinous layer with algal cells, t.s.
Ag256c **Porphyra,** marine red alga, w.m. of one cell layer thallus

FUNGI

Myxomycetes – Slime Fungi

Fu112d **Arcyria,** slime mold with cylindrical fruiting bodies w.m.
Fu1182e **Ceratiomyxa,** primitive slime mold with external spores, w.m. *
Fu118e **Dictydium,** fruiting body w.m.
Fu115e • **Fuligo,** slime mold, section through the fruiting body *
Fu113d **Hemitrichia,** slime mold with bell-shaped fruiting bodies w.m. *
Fu114d **Lycogola,** slime mold with bean-shaped fruting bodies w.m.
Fu119g **Myxoflagellatae,** myxamoebae and young plasmodia w.m. *
Fu117e **Physarum,** fruiting body w.m.
Fu116e • **Spongospora subterranea,** potato powdery scab, section with spore balls
Fu111d • **Stemonitis,** slime mold, entire capillitium with spores w.m.

Phycomycetes – Algalike Fungi

Fu1253e **Achlya,** water mold, with oogonia, antheridia, and zoosporangia
Fu127d • **Albugo candida (Cystopus candidus),** white rust of cruzifers, t.s. of Capsella tissue showing conidia
Fu128d **Albugo candida,** t.s. of Capsella tissue showing oogonia and zygotes
Fu140d **Candida albicans,** thrush fungus infective to man, from culture w.m.
Fu138e • **Empusa muscae,** parasite of insects, sec. through insect showing mycelium and conidia
Fu129c • **Mucor mucedo,** black mold, sporangia and mycelium w.m.
Fu1291e • **Mucor mucedo,** formation of zygospores w.m.
Fu124d • **Peronospora parasitica,** downy mildew of cruzifers, host tissue with conidia t.s.
Fu1242e **Peronospora tabacina,** blue mold of tobacco, leaf pieces with sporangia w.m.
Fu135d • **Phytophthora infestans,** late blight of potato, t.s. of infected tissue
Fu133e **Pilobolus,** mycelium, spongiophore and sporangia w.m. *
Fu121c • **Plasmodiophora brassicae,** clubroot, host cells with spores t.s.
Fu123d • **Plasmopara viticola,** downy mildew of grapes, leaf with conidia t.s.
Fu130c • **Rhizopus,** bread mold, sporangia and mycelium w.m.
Fu131d • **Rhizopus,** formation of zygospores w.m.
Fu132f **Rhizopus,** sporangia and zygospores on same slide w.m.
Fu136e **Rhizophydium pollinis,** living on pollen grains of pine, w.m. *
Fu125d • **Saprolegnia,** water mold, showing sexual stages w.m.
Fu122d • **Synchytrium endobioticum,** potato black scab, t.s. of infected tissue

Ascomycetes – Sac Fungi

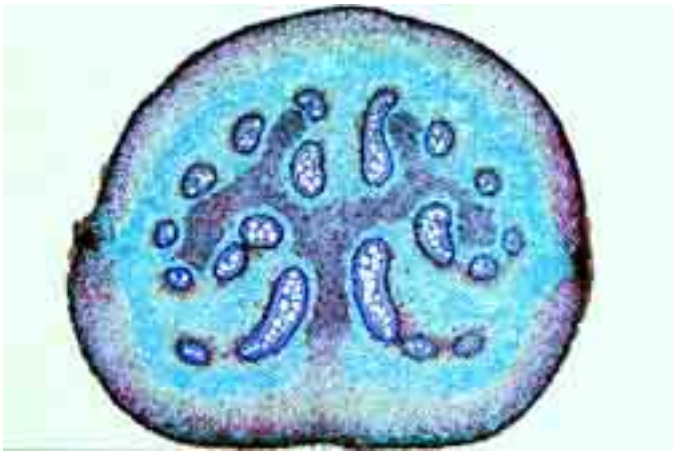
Fu163c • **Aspergillus,** brown mold, conidiophores and conidia w.m.
Fu1631d **Aspergillus,** perithecia (cleistothecia)
Fu172c **Botrytis allii,** grey mold of onions, t.s. of infected tissue
Fu180d **Cladosporium,** deuteromycet, destruction of textile goods, w.m.
Fu149c • **Claviceps purpurea,** ergot, mature sclerotium t.s.
Fu150e • **Claviceps purpurea,** stroma with perithecia and asci l.s.
Fu142e • **Erysiphe pannosa,** rose mildew, t.s. of rose leaf or stem with conidia
Fu144e **Erysiphe sp.,** w.m. of perithecia
Fu1441d **Erysiphe sp.,** t.s. of infected leaf showing perithecia *
Fu154c **Lachnea,** a small cup fungus, l.s. of apothecium with asci
Fu158c • **Morchella edulis,** morel, fruiting body with asci and spores, t.s.
Fu177c **Morchella,** teased preparation of mature hymenium with w.m. of asci with the typical eight ascospores
Fu161c • **Penicillium,** blue mold, mycelium and conidiophores, w.m.
Fu162d **Penicillium,** t.s. of host tissue showing mycelium and conidiophores
Fu153c • **Peziza,** cup fungus, l.s. of apothecium showing typical asci very clearly
Fu143d **Podosphaera leucotricha,** apple mildew, t.s. with conidia
Fu171c • **Rhytisma acerinum,** tar-spot of maple, t.s. of leaf with sclerotia
Fu164b • **Saccharomyces cerevisiae,** yeast, with budding cells w.m.

Puccinia graminis, wheat rust, sec. of uredinia on wheat causing red rust

Fu1643d **Saccharomyces octosporus,** yeast showing asci and ascospores w.m. *
Fu1644d **Saccharomyces sp.,** yeast, sexual phase, meiosis and meiospores w.m. *
Fu179e **Molds,** composite slide of three types: Aspergillus, Rhizopus and Penicillium, w.m.
Fu155c • **Sclerotinia fructigena (Monilia albicans),** plum rot, sec. through yeast-like conidia on surface of host tissue
Fu178e **Sordaria fimicola,** showing the wild type. Perithecia and spores
Fu1781e **Sordaria fimicola,** showing the mutant tan. Perithecia and spores
Fu1782e **Sordaria fimicola,** showing the mutant gray after crossing wild type with mutant tan, hybrid asci with 4 dark and 4 light ascospores
Fu148d **Sphaerotheca mors uvae,** gooseberry mildew, t.s. with perithecia
Fu141d • **Taphrina pruni (Exoascus pruni),** plum pockets, t.s. of host tissue with haustoria and asci
Fu1413e **Taphrina deformans,** peach leaf curl, infected leaf with asci and ascospores t.s.
Fu1415d **Taphrina sp.,** infected leaf c.s.
Fu152c • **Tuber rufum,** truffle, fruiting body with hymenium and asci, t.s.
Fu146d • **Uncinula necator (Oidium Tuckeri),** grape mildew, t.s. of leaf
Fu145d **Uncinula salicis,** willow mildew, t.s. of infected leaf
Fu156c • **Venturia pirinum (Fusicladium),** pear scab, sec. conidia
Fu157d **Venturia sp.,** leaf with perithecia *

Basidiomycetes – Club Fungi

Fu227c • **Boletus edulis,** pore fungus, horizontal sec. of pileus showing c.s. of pores
Fu2271c **Boletus edulis,** vertical sec. of pileus showing l.s. of pores
Fu233d **Coleosporium tussilaginis,** aecia on coltsfoot leaf t.s.
Fu228c • **Coprinus,** ink cap, t.s. of pileus showing typical basidia and spores
Fu229d **Coprinus,** l.s. of entire specimen
Fu2461e **Cronartium ribicola,** pine blister rust, sec. of pine bark with pycnidia
Fu2462e **Cronartium ribicola,** sec. of Ribes leaf with telia
Fu2463e **Cronartium ribicola,** sec. of Pinus stem with aecia
Fu236d **Cryptomyces pteridis,** infecting ferns, sec. of infected tissue
Fu240d **Geaster,** earth star, sec. of fruiting body
Fu222d **Gymnosporangium sabinae,** sec. of teleutospores on Juniperus
Fu223d **Gymnosporangium sabinae,** pear rust, section of pycnidia on pear leaf
Fu224d **Gymnosporangium sabinae,** section of aecidia on pear leaf
Fu2242f **Gymnosporangium sabinae,** section of aecidia and pycnidia on same slide
Fu245d **Hydnum,** prickly fungus, sec. of basidiocarp showing spores
Fu230c • **Lycoperdon bovista,** bovist, t.s. of fruiting body
Fu231c **Lycoperdon gemmatum,** puff-ball, t.s. of fruiting body
Fu2452d **Phragmidium,** sec. with teleutospores
Fu244d • **Polyporus,** pore fungus, sec. of young fruiting body
Fu226c • **Psalliota campestris (Agaricus),** mushroom, gill fungus, t.s. of pileus
Fu2263d **Psalliota ,** l.s. of complete young fruiting body
Fu215d • **Puccinia graminis,** wheat rust, sec. of uredinia on wheat causing red rust
Fu216d • **Puccinia graminis,** sec. of telia on wheat causing black rust
Fu217e **Puccinia graminis,** sec. of uredinia and telia on same slide
Fu218d • **Puccinia graminis,** sec. of aecidia and pycnidia on barberry leaf
Fu2195s **Puccinia graminis,** composite slide of four stages, sections of uredinia, telia, aecia and pycnidia
Fu221d **Puccinia coronifera,** crown rust of oats, sec. with telia
Fu225d • **Scleroderma vulgare,** sec. of young fruiting body
Fu250d **Scleroderma sp.,** sporogenous mycelium isolated to show formation of basidia very clearly *
Fu235d **Uromyces pisi,** pea rust, sec. of host tissue with parasitic fungus
Fu211d • **Ustilago zeae,** cornsmut, t.s. of pustule with spores
Fu212b **Ustilago zeae,** spores w.m.
Fu213b **Ustilago tritici,** spores w.m.
Fu214b **Ustilago avenae,** loose smut of oats section showing spores
Fu2141d **Ustilago avenae,** infected stem, c.s.
Fu243f **Wood rot fungus,** sec. through rotted wood showing detail of hyphae and mycelium specially stained
Fu219f **Germinating teleutospores** show basidia and basidiospores w.m. *



Pteridium, fern, t.s. of rhizome with dictyostele

LICHENES – LICHENS

Li103d • **Physcia,** sec. through thallus of a typical lichen showing the fungus and the embedded algae, doubly stained
Li104d • **Physcia,** sec. through apothecium showing asci and spores
Li105d • **Xanthoria,** sec. of thallus showing hyphae with symbiontic algae
Li106d • **Xanthoria,** sec. of apothecium showing asci and spores
Li124d **Cladonia,** reindeer moss, sec. of thallus showing hyphae with symbiontic algae
Li125d **Cladonia,** sec. of apothecium
Li115d **Usnea barbata,** a shrubby lichen, t.s. of stem-like thallus
Li117d **Usnea barbata,** sec. of apothecium with asci
Li112d **Lobaria pulmonaria,** a foliose lichen, sec. of thallus with algae
Li114d **Peltigera,** sec. of thallus or apothecium
Li120c **Lichen sp.,** w.m. of soredia
Li121e **Lichen sp.,** sec. through soredia
Li130d **Lichen sp.,** teased preparation of thallus showing detail of hyphae and spherical algae *
Li131d **Lichen sp.,** teased preparation of thallus showing detail of hyphae and filamentous algae *

BRYOPHYTA

Hepaticae – Liverworts

Br101f • **Anthoceros,** l.s. of sporophyte
Br102e **Anthoceros,** l.s. of thallus with antheridia *
Br1025c **Anthoceros,** t.s. of thallus
Br108d **Conocephalum,** t.s. of thallus
Br1085e **Conocephalum,** l.s. of antheridia *
Br109e **Conocephalum,** l.s. of sporophyte showing spores with elateres
Br120c **Jungermanniales sp.,** stem with leaves w.m.
Br1193g **Pellia epiphylla,** liverwort, antheridia l.s. *
Br1194h **Pellia epiphylla,** archegonia l.s. *
Br1195f **Pellia epiphylla,** sporogon l.s.
Br1093f **Porella,** antheridial branch l.s.
Br1094f **Porella,** archegonial branch l.s.
Br1095e **Porella,** young sporophyte l.s. *
Br1096e **Porella,** mature sporophyte l.s. *
Br104d **Riccia natans,** w.m. of thallus
Br105e **Riccia natans,** thallus with antheridia *
Br106g **Riccia natans,** thallus with archegonia *
Br107e **Riccia natans,** l.s. of sporophyte *
Br1075e **Ricciocarpus,** c.s. of thallus showing sexual organs
Br1076e **Ricciocarpus,** c.s. of thallus showing sporophytes
Br111c • **Marchantia,** liverwort, thallus with air chambers, t.s.
Br118c **Marchantia,** rhizoids w.m.
Br112d • **Marchantia,** cupule with gemmae, l.s.
Br113d **Marchantia,** isolated gemmae w.m.
Br114d • **Marchantia,** l.s. of archegonial branch showing archegonia
Br1141h **Marchantia,** median l.s. of a young archegonium showing egg cell, neck canal cells and ventral canal cells *
Br1142g **Marchantia,** median l.s. of an archegonium after fertilization *
Br115d • **Marchantia,** l.s. of antheridial branch showing antheridia
Br1151g **Marchantia,** median l.s. of antheridium through opening *
Br1152d **Marchantia,** horizontal sec. of antheridial branch
Br1153f **Marchantia,** l.s. of antheridial and archegonial branches
Br1154e **Marchantia,** sperm w.m. and stained for flagella *
Br116d • **Marchantia,** young sporophyte with developing spores l.s.
Br117d • **Marchantia,** older sporophyte with mature spores l.s.
Br1171f **Marchantia,** median l.s. of an older sporophyte *
Br1185g **Marchantia,** liverwort. composite slide of four stages: cupule with gemmae l.s., antheridial branch l.s., archegonial branch l.s., and sporophyte l.s.

Musci – Mosses

Br129d **Mnium,** t.s. of stem with primitive central stele and peripheral tissue
Br130d • **Mnium,** l.s. of stem through central stele
Br131d • **Mnium,** t.s. of leaves showing large chloroplasts
Br132d • **Mnium,** w.m. of leaf stained to show large chloroplasts
Br125e • **Mnium,** moss, l.s. of antheridia
Br1251g **Mnium,** median l.s. of antheridium *
Br1252e **Mnium,** teased preparation of antheridia w.m.
Br1254e **Mnium** or other moss, sperm w.m. stained for flagella *
Br126e • **Mnium,** l.s. of archegonia
Br1261g **Mnium,** median l.s. of archegonium *
Br1262e **Mnium,** teased preparation of archegonia w.m.
Br1265d • **Mnium,** l.s. of sporophyte with spores
Br1266d • **Mnium,** t.s. of sporophyte with spores
Br127d • **Mnium,** protonema w.m.
Br1275e **Mnium,** young gametophyte w.m. young leafy shoot with protonema *
Br1325t **Mnium,** moss, composite slide of four stages: antheridial branch l.s., archegonial branch l.s., sporogon with spores l.s., and protonema w.m.
Br121c • **Polytrichum,** moss, t.s. of stem
Br1212d **Polytrichum,** l.s. of stem with leaves
Br1214c **Polytrichum,** t.s. of seta
Br122d • **Polytrichum,** t.s. of leaves showing photosynthetic lamellae on the upper side
Br1223e **Polytrichum,** l.s. of antheridial branch
Br1226e **Polytrichum,** l.s. of archegonial branch
Br123d **Polytrichum,** l.s. of sporophyte with spores
Br124d **Polytrichum,** t.s. of sporophyte with spores
Br1242d **Polytrichum,** l.s. of young sporophyte with developing spores
Br1244c • **Polytrichum,** w.m. of peristome
Br1246d **Polytrichum,** w.m. of protonema
Br134c • **Sphagnum,** peat moss, w.m. of leaf showing chlorophyll bearing and hyaline cells
Br135d **Sphagnum,** t.s. of stem and leaves
Br136e **Sphagnum,** l.s. of antheridia *
Br137f **Sphagnum,** l.s. of archegonia *
Br138d **Sphagnum,** l.s. of young sporophyte
Br133d **Tortula,** moss, w.m. of gametophyte and young sporophyte
Br1331d **Tortula,** gametophyte and older sporophyte with peristome w.m.

PTERIDOPHYTA

Psilotales – Psilopsids

Pt101d • **Psilotum,** t.s. of stem showing exarch protostele and leaflets
Pt102e • **Psilotum,** t.s. of three-lobed sporangium
Pt103e **Psilotum,** l.s. of stem and sporangium
Pt1032d **Psilotum,** t.s. of rhizome
Pt1034d **Tmesipteris,** aerial stem t.s.
Pt1035d **Tmesipteris,** leaves t.s.
Pt1036e **Tmesipteris,** sporangium t.s.

Lycopodiatae – Clubmosses

Pt104f • **Isoetes,** quillwort, l.s. of entire plant with corm, leaves, sporangia and rhizophores
Pt105e **Isoetes,** l.s. of microsporophyll *
Pt106e **Isoetes,** l.s. of macrosporophyll *
Pt107d **Isoetes,** t.s. of stem
Pt110d **Lycopodium,** club moss, l.s. of stem showing stele
Pt111c • **Lycopodium,** t.s. of stem showing typical actinostele
Pt1115d • **Lycopodium,** t.s. of rhizome
Pt112e • **Lycopodium,** t.s. of mature sporophyll showing isospores
Pt113e **Lycopodium,** l.s. of young sporophyll showing developing spores
Pt114b • **Lycopodium,** spores w.m.
Pt1145d **Lycopodium,** young sporophyll w.m.
Pt115f **Lycopodium,** stem with apical region l.s.
Pt116c • **Selaginella,** t.s. of stem
Pt1163c **Selaginella,** t.s. of rhizophore
Pt117e • **Selaginella,** l.s. of strobilus with micro- and megasporangia
Pt118f **Selaginella,** w.m. of strobilus *
Pt119d **Selaginella,** l.s. of stem and leaves
Pt1193c **Selaginella,** c.s. of leaves

Equisetatae – Horse-tails

Pt125d **Equisetum,** root t.s.
Pt1245d • **Equisetum,** rhizome t.s.
Pt124c • **Equisetum,** stem t.s.
Pt126d • **Equisetum,** l.s. of stem tip showing apical region and developing leaves
Pt120d **Equisetum,** horse tail, young strobilus showing developing spores l.s.
Pt121d • **Equisetum,** mature strobilus t.s.
Pt122d • **Equisetum,** mature strobilus l.s.
Pt1223e **Equisetum,** l.s. and t.s. of mature strobilus on one slide
Pt123b • **Equisetum,** spores and elaters w.m.
Pt127e **Equisetum,** prothallium w.m. *

Filicatae – Ferns

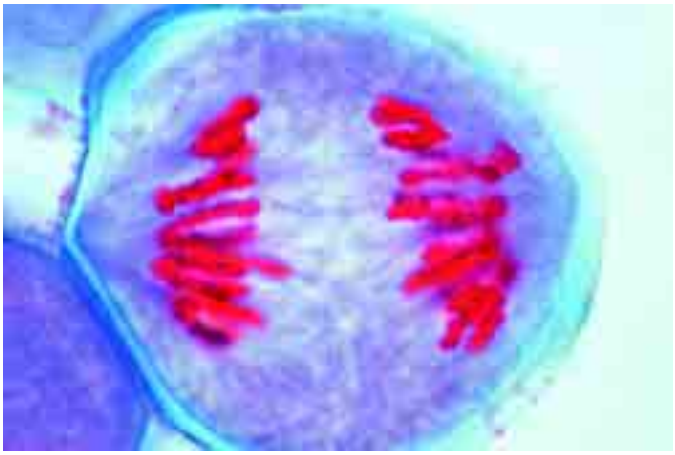
Pt1835d **Adiantum,** maiden-hair fern, leaf with sori and sporangia w.m.
Pt1836d **Adiantum,** leaf with sori and sporangia t.s.
Pt1837d **Adiantum,** rhizome t.s., amphiphloic siphonostele
Pt1831d **Angiopteris,** root t.s.
Pt1832d **Angiopteris,** rhizome with dictyostele t.s.
Pt130c • **Aspidium (Dryopteris),** male fern, root t.s.
Pt132c • **Aspidium,** rhizome t.s.
Pt131c • **Aspidium,** stem with bundles t.s.
Pt133d • **Aspidium,** leaves with sori showing indusia, sporangia and spores, section showing l.s. of sori
Pt134d **Aspidium,** leaflet with kidney-shaped indusia w.m.
Pt136d **Aspidium,** sec. of leaves with young sori showing spore development
Pt135b • **Aspidium,** isolated sporangia and spores w.m.
Pt1841d **Athyrium,** leaf with sori and sporangia w.m.
Pt1776c **Blechnum,** macerated xylem elements w.m.
Pt1851d **Botrychium,** fern, stem t.s.
Pt1852d **Botrychium,** sporangium t.s.
Pt1861d **Dennstaedtia,** rhizome with amphiphloic siphonostele t.s.
Pt1863d **Dennstaedtia,** leaf with sori and sporangia t.s.
Pt151d • **Fern prothallium,** young filamentous stage w.m.
Pt152e **Fern prothallium,** with antheridia w.m.
Pt153e **Fern prothallium,** with archegonia w.m.
Pt154f • **Fern prothallium,** selected to show antheridia and archegonia w.m. *
Pt155d • **Fern prothallium,** section with antheridia
Pt156e • **Fern prothallium,** section with archegonia *
Pt157g **Fern prothallium,** older stage with young sporophyte and root w.m. *
Pt1353d **Fern,** germinating spores of Aspidium or Pteridium, w.m.
Pt1575e **Fern,** sperm w.m. and stained for flagella *
Pt159t **Fern,** composite slide of four stages: leaflet with sori and sporangia t.s., rhizome t.s., prothallium with sex organs w.m., prothallium with young sporophyte w.m.
Pt1871d **Gleichenia,** tropical fern, rhizome t.s.
Pt191f **Huperzia,** l.s. of sporangia on leaf bases
Pt1875d **Lygodium,** leaf with sori and sporangia w.m.
Pt175c **Marattia,** tropical fern, root t.s.
Pt176c **Marattia,** rhizome t.s.
Pt177e **Marattia,** synangium t.s.
Pt1881d **Marsilea,** nardoo, rhizome with amphiphloic siphonostele, t.s.
Pt1882c **Marsilea,** petiole t.s.
Pt1883d **Marsilea,** leaflet t.s.
Pt1884e **Marsilea,** sporocarp t.s.
Pt1672d **Ophioglossum,** root t.s.
Pt167c **Ophioglossum,** rhizome t.s.
Pt165c **Ophioglossum,** adders tongue fern, stem t.s.
Pt1675c **Ophioglossum,** leaf t.s.
Pt1676e **Ophioglossum,** sporocarp with spores t.s.
Pt166e **Ophioglossum,** sporocarp with spores l.s.
Pt1673c **Ophioglossum,** macerated xylem elements w.m.
Pt181c **Osmunda,** root t.s.
Pt180c **Osmunda,** royal fern, rhizome with ectophloic siphonostele t.s.
Pt1803c **Osmunda,** stem, l.s.
Pt1824c **Osmunda,** stem t.s.
Pt1825c **Osmunda,** leaf t.s.
Pt182d **Osmunda,** sporangia and spores t.s.
Pt1821d **Osmunda,** leaf with sori and sporangia w.m.
Pt1822c **Osmunda,** macerated xylem elements w.m.
Pt161d **Phyllitis scolopendrium,** hart's tongue fern, leaf with sori and sporangia t.s.
Pt1612d **Phyllitis scolopendrium,** rhizome t.s.
Pt147c **Platycerium,** epiphytic fern, sterile and fertile leaves t.s.
Pt1891d **Polypodium,** rhizome with dictyostele t.s.
Pt1893d • **Polypodium,** leaf with sori and sporangia w.m. shows lack of indusia
Pt1894c **Polypodium,** t.s. of leaf showing modification of epidermis (water pit)
Pt1895d **Polystichum,** Christmas fern, leaf with sori and sporangia w.m. showing shield-shaped indusia
Pt144d **Pteridium,** root t.s.
Pt140d • **Pteridium,** l.s. of rhizome showing scalariform vessels
Pt141d • **Pteridium,** t.s. of rhizome with dictyostele
Pt139d **Pteridium (Pteris),** bracken fern, macerated rhizome with scalariform vessels w.m.
Pt142c **Pteridium,** stem t.s.
Pt143c **Pteridium,** leaves with sori and sporangia, section shows l.s. of sori within inrolled margins of the leaves
Pt1433d • **Pteridium,** w.m. of leaf with sori and sporangia
Pt1422c **Pteridium,** macerated xylem elements w.m.
Pt145c • **Salvinia natans,** waterfern, leaf t.s.
Pt146d • **Salvinia natans,** sporocarp t.s.

GYMNOSPERMAE

Gy1041e **Cycas,** three sections of wood, t.s., r.l.s., t.l.s.
Gy1042d **Cycas,** leaf t.s.
Gy1048f **Cycas,** seed, t.s.
Gy101d **Zamia (cycad),** root t.s.
Gy102e **Zamia,** stem t.s.
Gy1021d **Zamia,** leaf t.s.
Gy1022e **Zamia,** male cone t.s. showing microsporophyll with spores *
Gy103f **Zamia,** young female cone showing ovules l.s. *
Gy1031g **Zamia,** ovule with archegonia l.s. *

Pinus, pine, embryo with endosperm, l.s.

Gy112c **Ginkgo biloba,** stem t.s.
Gy1116c **Ginkgo biloba,** young sprout, t.s.
Gy1114d **Ginkgo biloba,** shoot apex, l.s.
Gy1124e **Ginkgo biloba,** three sections of wood, t.s., r.l.s., t.l.s.
Gy1123c **Ginkgo biloba,** macerated xylem elements w.m.
Gy111c **Ginkgo biloba,** leaf t.s.
Gy105d **Ginkgo biloba,** male cone t.s. showing microsporophyll
Gy1051d **Ginkgo biloba,** male cone l.s. showing microsporophyll
Gy1055e **Ginkgo biloba,** young female cone showing growing ovules l.s.
Gy106f **Ginkgo biloba,** archegonium before fertilization, l.s. *
Gy107f **Ginkgo biloba,** archegonium after fertilization l.s. *
Gy108e **Ginkgo biloba,** ovule l.s. for general study, free nuclear stage
Gy109g **Ginkgo biloba,** archegonium showing proembryo l.s. *
Gy110f **Ginkgo biloba,** later stage of embryo l.s. *
Gy113c **Taxus baccata,** yew, young stem t.s.
Gy114c **Taxus baccata,** root t.s.
Gy115c **Taxus baccata,** leaves t.s.
Gy121c • **Pinus,** pine, young root from seedling t.s.
Gy122c • **Pinus,** older woody root t.s.
Gy123e **Pinus,** stem apex shows meristematic tissue and leaf origin l.s.
Gy1234c **Pinus,** young sprout with needles, t.s.
Gy124c • **Pinus,** one year stem t.s.
Gy125c • **Pinus,** older stem with annual rings, resin ducts t.s.
Gy1255d **Pinus,** one and two year stem, t.s.
Gy126d • **Pinus,** three sections of wood: cross, radial and tangential sections
Gy1265c **Pinus,** wood, tangential sec. stained for tracheids with pits
Gy127c • **Pinus,** leaves (needles), t.s. for general study of gymnosperm leaves
Gy1271c **Pinus monophylla,** single-leaf pine, leaves t.s.
Gy1272c **Pinus nigra,** Austrian pine, the two-needle type, leaves t.s.
Gy1273c **Pinus australis,** long-leaf pine, the three-needle type, leaves t.s.
Gy1274c **Pinus strobus,** white pine, the five-needle type, leaves t.s.
Gy128d **Pinus,** male cone with pollen t.s. (staminate cone)
Gy129d • **Pinus,** male cone with pollen l.s.
Gy1291d **Pinus,** young male cone with developing pollen l.s.
Gy1295e **Pinus,** l.s. and t.s. of male (staminate) cone on one slide
Gy130b • **Pinus,** mature pollen grains w.m.
Gy1301d **Pinus,** germinating pollen grains with pollen tubes w.m.
Gy131d • **Pinus,** young female (ovulate) cone, entire l.s. for general study
Gy132e **Pinus,** young female cone at time of pollination, l.s. with pollen grains and micropyle
Gy1322g **Pinus,** ovule l.s. showing megaspore mother cell *
Gy1324k **Pinus,** ovule l.s. showing meiosis of megaspore mother cell, 2 to 4 haploid daughter cells *
Gy133f • **Pinus,** ovule l.s. showing growing female gametophyte at the free nuclear stage
Gy134h **Pinus,** young archegonium before separation of egg nucleus and ventral canal nucleus l.s. *
Gy135f • **Pinus,** ovule l.s. showing archegonia, the standard slide for general study
Gy1351h **Pinus,** archegonium median l.s. with egg nucleus and neck cells *
Gy1355k **Pinus,** archegonium l.s. with zygote cell in division. As available *
Gy1357i **Pinus,** archegonium l.s. showing free proembryonic nuclei in the center of the archegonium *
Gy136g **Pinus,** archegonium l.s. with early stage of proembryo
Gy1361h **Pinus,** young proembryo median l.s. showing four-cell stage *
Gy1362h **Pinus,** young proembryo median l.s. showing eight-cell or sixteen-cell stage.
Gy137g **Pinus,** archegonium l.s. with later stage of proembryo
Gy138e **Pinus,** young embryo l.s.
Gy139e • **Pinus,** mature embryo with endosperm l.s.
Gy1391f **Pinus,** mature embryo with endosperm, near median l.s.
Gy140e • **Pinus,** mature embryo with endosperm t.s.
Gy141f **Pinus,** germinating seed l.s.
Gy145d **Pinus,** older stem, t.s. and l.s. on one slide showing annual rings, resin ducts, bark
Gy146b **Pinus,** wood cells macerated and w.m.
Gy147c **Pinus,** leaf bud t.s.
Gy1478e **Pinus,** composite slide of three kinds: stem t.s., leaves t.s. and young ovulate cone on one slide
Gy151c • **Abies,** fir, leaves t.s.



Lilium, anaphase of the first maturation division of pollen mother cells

Gy1514d **Abies,** shoot apex, l.s.
Gy1515d **Abies,** three sections of wood, t.s., r.l.s., t.l.s.
Gy1512c **Abies grandis,** leaves t.s.
Gy152c • **Picea,** spruce, leaves t.s.
Gy153c **Picea,** shoot apex with leaves t.s.
Gy1520e **Picea,** endosperm with embryo t.s.
Gy1536c **Picea asperata,** leaves t.s.
Gy1533c **Picea breweriana,** leaves t.s.
Gy1535c **Picea glauca,** leaves t.s.
Gy1537c **Picea orientalis,** leaves t.s.
Gy1532c **Picea polita,** leaves t.s.
Gy1534c **Picea pungens,** leaves t.s.
Gy251c • **Larix,** larch, leaves t.s.
Gy253d **Larix,** l.s. of male cone
Gy255e **Larix,** l.s. of female cone with ovules
Gy211c **Ephedra,** stem t.s.
Gy215e **Ephedra,** male flower t.s.
Gy216e **Ephedra,** female flower t.s.
Gy2165f **Ephedra,** mature female cone l.s.
Gy217c **Ephedra,** macerated xylem elements w.m.
Gy221c **Gnetum,** leaf t.s.
Gy2213c **Gnetum,** macerated xylem elements w.m.
Gy1549c **Arbor-vitae,** leaves l.s.
Gy1565c **Cedrus deodora,** cedar, leaves t.s.
Gy156c **Cephalotaxus fortunei,** leaves t.s.
Gy157c **Chamaecyparis nootkatensis,** leaves t.s.
Gy155c **Cryptomeria japonica,** leaves t.s.
Gy1582c **Juniperus communis,** juniper, leaves t.s.
Gy158c **Juniperus virginiana,** leaves t.s.
Gy159c **Librocedrus decurrens,** leaves t.s.
Gy1595c **Metasequoia,** leaves t.s.
Gy160c **Pseudotsuga menziesii,** leaves t.s.
Gy1575c **Taxodium distichum,** cypress, leaves t.s.
Gy162c **Thuja plicata,** leaves t.s.
Gy161c **Tsuga canadensis,** leaves t.s.

ANGIOSPERMAE

I. CYTOLOGY AND TISSUES

Cell nucleus, cell division, chromosomes

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

Cell organelles

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

Inclusions: Reserve and storage substances

As131c • **Aleurone grains,** sec. of Ricinus endosperm
As6611d **Aleurone grains,** t.s. of seed and cotyledons of Evonymus
As132c • **Starch grains,** sec. of tuber of Solanum tuberosum (potato)
As1321c **Starch grains,** t.s. cotyledons of Vicia faba (bean)
As1322c **Starch grains,** t.s. of semen (grain) of Avena (oat)
As1323b **Starch grains,** smear from Euphorbia (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 Corylus (hazel) stained for fat
As146d • **Reserve cellulose,** t.s. seed of Phoenix (date)

Inclusions: Crystals and metabolic products

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

Meristematic tissues

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

Supporting tissues

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

Conducting tissues

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 Pinus 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 Cucurbita pepo
As161c • **Sieve plates** in top view, t.s. of Cucurbita stem showing large structures
As162d **Callose** on sieve plates of Vitis vinifera (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

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

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.

II. ROOTS

Typical roots in comparison

As201e **Monocot and dicot roots,** two t.s. on one slide for comparison
As202e **Herbaceous and woody roots,** two t.s. on one slide
As203e **Young (primary) and older (secondary) roots,** two t.s. on one slide
As204e **Fleshy and woody roots,** two t.s. on one slide

Root tips, root development

As210d • **Root tip and root hairs,** t.s. to show epidermal origin of root hairs
As211d • **Root tip and root hairs,** w.m.
As2113c **Hydrocharis,** root tip with central pith and root hairs, t.s.
As2133c **Vicia faba,** bean, t.s. of root tip
As2134d **Monstera,** philodendron, l.s. through root tip
As2175d **Asparagus,** root t.s. to show epidermal origin of root hairs
As2132c **Sinapis,** cross sections through young roots
As220d • **Zea mays,** l.s. of root tip specially stained for statolith starch
As224e **Hyacinthus,** l.s. of root tips showing all stages of mitosis
As254d • **Salix,** willow, l.s. of root showing origin of lateral roots
As2541d **Salix,** t.s. of root showing origin of lateral roots
As2545d **Vicia faba,** bean, l.s. of root showing origin and early development of lateral roots
As272c **Phaseolus,** bean, young root t.s. showing beginning secondary growth
As278e **Phaseolus,** l.s. showing transition root-stem

Typical monocot roots

As215c • **Zea mays,** corn, root t.s., a polyarch root
As214c • **Iris,** typical monocot root t.s. showing all structures
As217c • **Convallaria,** lily of the valley, t.s. of root shows endodermis, pericycle, phloem, xylem very clearly
As2135c **Allium cepa,** onion, t.s. of root tip showing epidermis, exodermis, endodermis and central pith
As222c **Lilium,** lily, t.s. of monocot root
As227c **Hordeum,** barley, young root t.s. shows development of vascular bundles
As228c **Triticum,** wheat, young root t.s., primary xylem and central vessel
As229c **Bromus,** brome-grass, t.s. of a grass root

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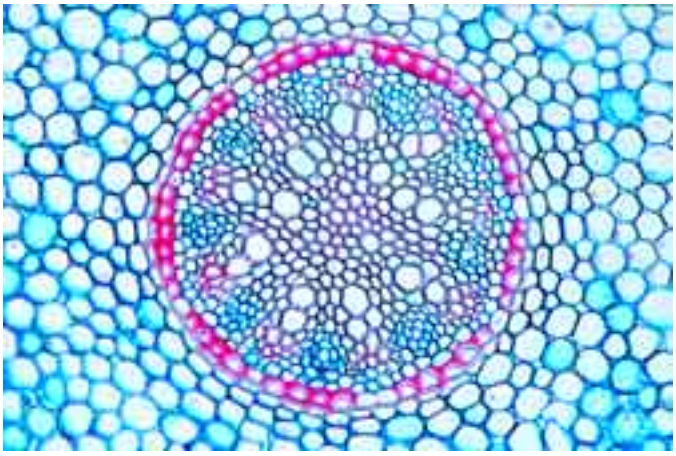


Convallaria, lily of the valley, rhizome t.s. with concentric vascular bundle

Typical dicot roots

As241c • **Ranunculus,** buttercup, t.s. of a typical dicot root for general study showing all structures very clearly
As2411d **Ranunculus,** young and older roots on one slide, t.s.
As2419d **Helianthus,** sunflower, young root t.s.
As242d **Helianthus,** sunflower, older woody root t.s.
As245c • **Raphanus,** radish, t.s. of root showing secondary growth and several cambium rings
As247c **Medicago,** alfalfa, root t.s. showing secondary growth
As266c **Beta vulgaris,** beet, root showing anomalous secondary growth t.s.
As244c • **Tilia,** lime, older woody root t.s.
As258c **Rheum,** rhubarb, root with crystals t.s.
As267c **Cannabis sativa,** hemp, root t.s.
As268c **Clivia miniata,** t.s. of root showing polyarch central bundle
As269c **Quercus robur,** oak, young root from seedling t.s.
As270c **Quercus robur,** older woody root t.s.
As280c **Nicotiana tabacum,** tobacco, t.s. of root showing primary and secondary xylem
As281c **Actaea,** baneberry, young root with primary xylem t.s.
As282c **Sambucus,** elderberry, root t.s.

Adaptation to water: hydrophytes and hygrophytes

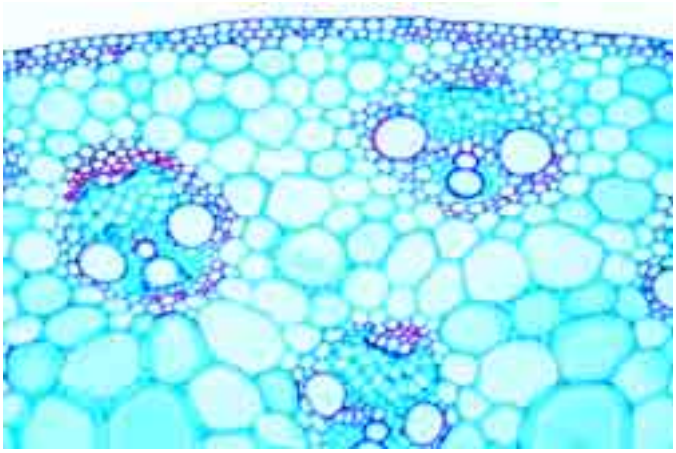
As212d • **Lemna,** duckweed, root tip and cap (calyptra) w.m.
As213d **Lemna,** l.s. of root tip and cap
As225c • **Elodea,** Canadian waterweed, t.s. of an aquatic root
As283d **Nymphaea,** water-lily, t.s. of root showing branch root origin
As2415d • **Caltha palustris,** t.s. of primary root showing endodermis and the Casparian strips
As253c • **Monstera,** aerial root t.s.
As2535c **Avicennia,** mangrove, breathing root (pneumatophore) t.s.
As259c • **Dendrobium,** orchid, aerial root with velamen t.s.
As287c **Taxodium distichum (Cypressacea),** t.s. of aerial root for respiration
As286c **Rhiziphora,** mangrove, t.s. of adventitious root

Adaptation to dry habitat: xerophytes

As216c • **Smilax,** carrion flower, t.s. of root shows thickened endodermis
As288c **Pelargonium,** t.s. of root for succulence
As284c **Sarothamnus,** broom, t.s. through woody root

Adaptation to unusual modes of nutrition

As248c • **Taraxacum,** dandelion, taproot with lactiferous vessels t.s.
As260c • **Scorzonera,** black salsify, root with lactiferous vessels l.s.
As249c **Lupinus,** lupin, root t.s.
As250d • **Lupinus,** root nodules with nitrogen fixing bacteria (Rhizobium radicicola) t.s.
As2502d **Pisum sativum,** pea, t.s. of nodule with nitrogen-fixing bacteria
As2505d **Vicia faba,** bean, t.s. of nodule with nitrogen fixing bacteria
As251d • **Alnus,** alder, root nodules with symbiotic actinomycetes (Streptomyces alni) t.s.
As265d • **Ranunculus ficaria,** root storing starch grains, t.s.
As246c • **Daucus carota,** carrot, storage root t.s.
As255d • **Fagus,** beech, root with ectotrophic mycorrhiza, t.s.
As256d • **Neottia nidus avis,** orchid, root with endotrophic mycorrhiza, l.s.
As2417d **Orchid,** root t.s.
As2475c **Convolvulus,** twining plant, older root with compressed endodermis t.s.
As252c **Hedera helix,** ivy, aerial climbing root t.s.
As355d • **Cuscuta,** dodder, t.s. through stem of host showing the haustoria of the parasite
As285e • **Viscum album,** mistletoe, sec. showing parasitic root in wood of apple tree



Zea mays, corn, typical monocot stem with scattered bundles, t.s.

III. STEMS

Typical stems in comparison

As305e **Monocot and dicot stems,** two t.s. on one slide for comparison of the different structures
As3052e **Monocot and dicot stems,** two l.s. on one slide
As3054e **Dicot and monocot stem,** t.s. of Helianthus and Canna, on same slide
As3055e **Dicot and monocot stem,** t.s. of Ranunculus and Zea, on same slide
As306e **Stems of annual and perennial plants,** two t.s. on one slide
As3065e **Sun and shadow stems,** two t.s. on one slide
As307e **Herbaceous and woody stems,** two t.s. on one slide
As3942f **Dicot stem,** Aristolochia, t.s. of one year stem with widely separate bundles, two years stem and older stem with anomalous structure all 3 in on slide
As3944e **One year stem** with active cambium and older stem with secondary structures, Tilia, two t.s.
As3432e **Helianthus,** young and older stem, two t.s. on one slide
As3424e **Helianthus,** of older stem, t.s. and l.s. on one slide

Typical monocot stems

As311c • **Zea mays,** typical monocot stem with scattered bundles, t.s., a standard slide for general study
As310c **Zea mays,** corn, young undifferentiated stem t.s.
As3115c **Zea mays,** stem with leaf sheaths t.s.
As312c **Zea mays,** stem with vascular bundles l.s.
As3941e **Zea mays,** t.s. and l.s. of monocot stem on one slide
As317c • **Lilium,** lily, t.s. of stem showing assimilating parenchyma
As3203c **Tulipa,** tulip, t.s. of stem
As3989c **Allium,** l.s. of a subterraneous bulb
As3172c **Allium sativum,** stem t.s.
As3988c **Asparagus,** t.s. of stem
As3204c **Dianthus,** pink, t.s. of stem
As315c • **Triticum,** wheat, t.s. through the stem of a gramineous plant with pith cavity and the ring-shaped arrangement of vascular bundles
As316d **Triticum,** l.s. transition node – internode
As3162c **Secale,** rye, t.s. of typical grass stem
As323c • **Holcus lanatus,** grass, stem t.s.
As320c **Acorus calamus,** sweet flag, rhizome t.s.
As321c • **Convallaria,** lily of the valley, t.s. of rhizome with concentric vascular bundles
As322c • **Iris,** rhizome t.s. showing storage of starch
As325d **Dracaena,** dragon tree, stem t.s., secondary growth in a monocot plant
As3813c **Saccharum,** sugarcane, stem t.s.
As3986c **Phragmites,** reed, t.s. of monocot stem
As3987c **Alisma plantago,** t.s. of stem

Typical dicot stems: herbaceous plants

As343c • **Helianthus,** sunflower, typical dicot herbaceous stem t.s. showing open vascular bundles and all structures very clearly
As3432e **Helianthus,** young and older stem, two t.s. on one slide
As3424e **Helianthus,** older stem, t.s. and l.s. on one slide
As3943c **Helianthus,** young sprout t.s.
As376b **Helianthus,** sunflower, t.s. of marrow shows large parenchyma cells
As339c **Pelargonium,** geranium, t.s. through young stem of an annual plant
As340c **Pelargonium,** geranium, t.s. through older stem of an annual plant showing phellogen and fascicular cambium
As344d • **Cucurbita,** pumpkin, l.s. of stem with sieve tubes and vascular bundles
As345d • **Cucurbita,** t.s. of stem showing large sieve tubes and vascular bundles
As3451e **Cucurbita,** pumpkin, t.s. and l.s. of stem
As365c **Ranunculus,** buttercup, t.s. of stem with open vascular bundles, no interfascicular cambium
As354c • **Lamium,** deadnettle, square stem with well developed collenchyma and continuous vascular cylinder t.s.
As3542c **Galium,** t.s. of typical square stem showing collenchyme cells
As367c • **Salvia,** sage, t.s. of a square stem
As368c **Coleus,** t.s. of a square stem showing collenchyma clearly
As3877c **Amaranthus,** stem t.s.
As375c **Arctium lappa,** burdock, stem t.s.
As3876d **Atriplex,** orache, stem t.s. with bladder hairs
As374c **Bryonia,** t.s. of stem showing large sieve plates
As385c • **Cannabis sativa,** hemp, t.s. of stem showing woody sclerenchyma fibres
As3985c **Chelidonium,** celandine, t.s. of stem
As3872c **Chenopodium,** goosefoot, stem t.s.
As382d **Coleus,** stem with leaf base and axillary bud l.s.
As380c **Digitalis,** foxglove, stem with continuous circular stele t.s.
As358c • **Euphorbia,** spurge, stem with lactiferous vessels l.s.
As3949c **Fuchsia,** t.s. of stem
As352c **Hedera helix,** ivy, stem with crystals t.s.
As359c **Hoya carnosa,** wax flower, stem with stone cells t.s.
As387c **Hydrangea,** stem t.s.
As3946c **Impatiens,** t.s. of stem
As3565c **Lactuca,** lettuce, stem t.s.
As3566c **Lactuca,** lettuce, stem l.s.
As3752c **Lonicera,** t.s. of young stem
As3753c **Lonicera,** t.s. of older stem
As357c • **Medicago,** alfalfa, young stem t.s.
As3571d • **Medicago,** alfalfa, old stem t.s. with secondary growth
As3982c **Mercurialis,** t.s. through monopodial rhizome
As3983c **Mercurialis,** t.s. of stem
As3878d **Ononis,** restharrow, stem t.s.
As3866c **Passiflora,** passion flower, stem t.s.
As3972c **Primula,** primose, t.s. of stem
As381c **Trifolium,** clover, stem t.s.

Typical dicot stems: shrubs and trees

As341c • **Aristolochia,** one year stem t.s. for general study
As342c • **Aristolochia,** older stem t.s. for general study
As3422e **Aristolochia,** one year and older stem, two t.s. on one slide
As3423c • **Aristolochia,** older stem l.s. for general study
As3426c **Aristolochia,** meristematic stem t.s. showing developing vascular bundles
As3428c **Aristolochia,** macerated xylem elements w.m.
As363c • **Aesculus hippocastanum,** chestnut, petiole t.s.
As369c **Aesculus hippocastanum,** chestnut, young stem (shoot) t.s.
As386d • **Aesculus hippocastanum,** chestnut, twig with leaf scar t.s.
As346c • **Clematis,** young hexagonal stem t.s., collenchyma
As347c • **Clematis,** older stem t.s., phelloderm, phellogen, phellem
As3767c **Fagus silvatica,** beech, stem t.s.
As3945c **Fagus,** beech, t.s. of mature wood
As377c **Fagus,** beech, macerated wood cells w.m.
As3772e **Fagus,** three sections of wood: t.s., r.l.s., t.l.s.
As3505c **Fraxinus excelsior,** ash, one year stem t.s.
As3506d **Fraxinus excelsior,** ash, three sections of wood; t.s., r.l.s., t.l.s.
As3882d **Hibiscus tiliaceus,** stem t.s.
As3899d **Liquidambar,** sweetgum, woody stem t.s.
As3783d **Liriodendron,** three sections of wood; t.s., r.l.s., t.l.s.
As3784c **Liriodendron,** stem t.s.
As3785c **Liriodendron,** stem l.s.
As3781c **Magnolia,** stem, l.s.
As3895e **Magnolia,** stem t.s. and l.s. in one slide
As3782c **Magnolia,** macerated xylem elements w.m.
As3502d **Prunus avium,** cherry, one year, two year and three year stems, three t.s. on same slide for comparison
As3475c **Quercus robur,** oak, young stem t.s.
As3476c • **Quercus robur,** older woody stem t.s., annual rings
As3477d **Quercus robur,** three sections of wood, t.s., r.l.s., t.l.s.
As388d **Rhus,** poison ivy, stem t.s.
As3522d **Salix nigra,** willow, three sections of wood: t.s., r.l.s., t.l.s.
As3523c **Salix,** macerated xylem elements w.m.
As360c • **Sambucus,** elderberry, stem with lenticells t.s.
As3603d **Sambucus,** three sections of wood: t.s., r.l.s., t.l.s.
As3896f **Sycamore,** three sections of wood: t.s., r.l.s., t.l.s.
As348c • **Tilia,** lime, older woody stem t.s.
As349c • **Tilia,** older woody stem l.s.
As3492d **Tilia,** older woody stem t.s. and l.s. on one slide
As3494c **Tilia,** one year stem during the summer t.s., showing active cambium, ring-shaped primary vascular tissue
As3495c **Tilia,** one year stem during the winter t.s., showing resting cambium
As3496c **Tilia,** two year stem t.s., showing primary and secondary vascular tissues
As3497c **Tilia,** three year stem t.s.
As3498e **Tilia,** one year, two year and three year stems, three t.s. on same slide for comparison
As3499c **Tilia,** young stem l.s.
As350d • **Tilia,** three sections of wood: t.s., r.l.s., t.l.s.
As378c **Tilia platyphyllos,** lime, macerated wood cells w.m.
As351c • **Vitis vinifera,** grape, stem with medullary rays t.s.
As3512d **Vitis,** three sections of wood: t.s., r.l.s., t.l.s.
As3884d **Wisteria sinensis,** stem t.s.

Stems of selected useful plants

As3947c **Anthriscus,** t.s. of stem
As3948c **Asperula odorata,** woodruff, t.s. of stem
As3715c **Beta,** beet, t.s. of a superterrestrial storage root
As3911d **Brassica,** cabbage, stem with leaf traces t.s.
As3897c **Coffea arabica,** coffee, stem t.s.
As3851c **Linum,** flax, t.s. of stem showing husk fibres
As3898d **Nicotiana tabacum,** tobacco, stem t.s.
As3874d **Persea,** avocado, stem t.s.
As356c **Piper nigra,** pepper, dicot stem with scattered bundles t.s.
As362c **Ribes,** currant, t.s. of stem showing cork cambium (phellogen)
As3891c **Ricinus,** castor oil bean, young stem t.s. with separate bundles
As3892c **Ricinus,** older stem t.s. with secondary xylem cylinder
As371c **Solanum tuberosum,** potato, t.s. of tuber with starch grains and cork
As3713c **Solanum tuberosum,** aerial stem t.s.
As3514c **Vicia faba,** stem t.s.

Adaptation to water: hydrophytes and hygrophytes

As3146d **Bamboo,** stem t.s.
As3984c • **Caltha,** march-marigold, t.s. of stem
As3123c **Canna,** t.s. of monocot stem showing scattered bundles
As3662c **Ceratophyllum,** hornwort, stem t.s.
As3285d • **Eichhornia,** water hyacinth, rhizome t.s.
As313c • **Elodea,** waterweed, t.s. of aquatic stem showing primitive bundle
As3132c **Hippuris,** t.s. of stem showing typical aquatic stem with large central pith
As314c • **Juncus,** bulrush, stem with internal stellate cells t.s.
As366c • **Myriophyllum,** water-milfoil, t.s. of aquatic stem
As353c • **Nymphaea,** water lily, stem with idioblasts t.s.
As3145c **Potamogeton,** pondweed, stem with aerial chambers t.s.
As3133c **Sagittaria,** t.s. monocot stem of a hydrophytic plant

Adaptation to dry habitat: xerophytes

As327d **Aloe,** stem t.s. showing secondary growth in a monocot plant
As383d • **Opuntia,** cactus, succulent stem t.s.
As3734d **Leaf thorn** on stem of Berberis (barberry), l.s.
As3735d **Stem thorn** on stem of Crataegus (hawthorn), l.s.
As373d **Prickle** on stem of Rosa (rose), l.s.
As3585c • **Nerium,** oleander, t.s. stem to show lactiferous ducts
As3586c **Nerium,** oleander, l.s. stem to show lactiferous ducts
As328d • **Smilax,** carrion flower, stem t.s.
As3854d **Bauhinia,** tropical liana, climbing stem t.s.
As3852d **Thunbergia,** liana, stem t.s. shows vascular bundles with enclosed phloem
As326d **Yucca,** stem t.s., formation of bark in a monocot plant

Adaptation to unusual modes of nutrition

As355d • **Cuscuta,** dodder, t.s. through stem of host showing the haustoria of the parasite
As370d **Dentaria,** toothwort, l.s. through bulbil

Petioles and miscellaneous

As4646c • **Acer platanoides,** maple, petiole t.s.
As4647c **Acer platanoides,** maple, l.s. stem and petiole leaf abscission
As363c • **Aesculus hippocastanum,** chestnut, petiole t.s.
As4794d **Canna indica,** petiole t.s.
As4674d **Eichhornia,** petiole t.s.
As4795d **Fragaria,** strawberry, petiole t.s.
As4671c • **Nymphaea,** petiole t.s.
As4798d **Passiflora,** passion flower, petiole with nectaries t.s.
As479c **Plantago,** plantain, petiole t.s.
As4797d **Portulak,** petiole t.s.
As4793d **Vitis vinifera,** petiole t.s.
As3971c **Drymis,** t.s. of stem with bark
As395e **Wound healing** on stem, early stage, t.s.
As396e **Wound healing** on stem, later stage, t.s.
As398e **Graft scion** on stem t.s.

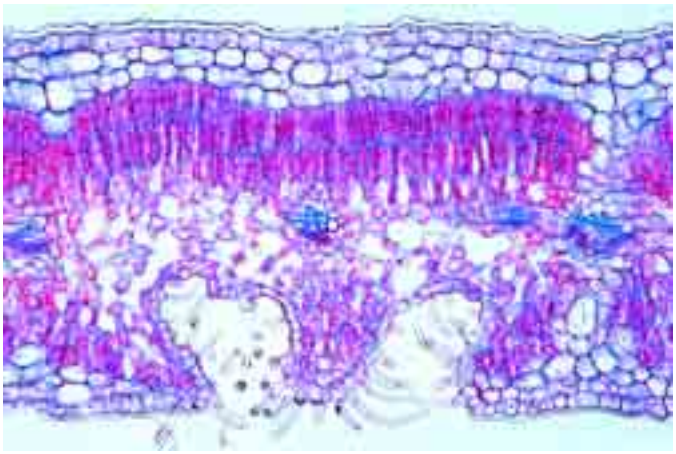
IV. LEAVES

Typical leaves in comparison

As4005e **Monocot and dicot leaf epidermis** with stomata, two w.m. in one slide for comparison
As4118d **Monocot and dicot leaves,** two t.s. in one slide for comparison
As4119e **Leaf types,** composite slide of three t.s. through hydrophytic, mesophytic, and xerophytic leaves

Leaf epidermis and stomata

As411c • **Tulipa,** tulip, leaf epidermis with stomata w.m., showing large stomata and guard cells for general study
As410c **Calla,** leaf epidermis with stomata w.m.
As4102d **Sedum,** epidermis with stomata w.m.
As4103d **Saccharum (blade),** epidermis with stomata w.m.
As4108d **Allium cepa,** onion, leaf epidermis with stomata w.m.
As4109d **Lilium,** lily, leaf epidermis with stomata w.m.



Nerium, oleander, xerophytic leaf with sunken stomata t.s.

As4112c • **Iris,** leaf epidermis w.m. showing stomata in rows
As4113d **Grass,** leaf epidermis w.m. or horizontal sec. showing stomata of a gramineous plant
As4114d **Saxifraga,** leaf epidermis w.m. or horizontal sec. showing stomata without accessory cells
As4115d **Begonia or Sedum,** leaf epidermis w.m. showing scattered stomata with many accessory cells
As4116d **Dianthus,** leaf epidermis w.m. showing stomata with two accessory cells
As4117d **Helleborus niger,** leaf epidermis w.m. with stomata
As448c • **Solanum tuberosum,** potato, leaf t.s. showing raised stomata
As456c • **Nerium,** oleander, leaf with sunken stomata t.s., showing the typical structures of a xerophytic leaf
As4953c • **Ruellia,** t.s. of leaf showing raised stomata

Leaf hairs and emergences

As420c • **Elaeagnus,** olive tree, scale-like stellate hairs w.m.
As421c • **Verbascum,** mullein, branched leaf hairs w.m.
As422c **Verbascum,** leaf with branched hairs t.s.
As464d • **Urtica,** stinging nettle, stinging hairs with poison ducts
As471c **Pelargonium,** geranium, t.s. of leaf with multicellular glandular hairs
As478c **Nicotiana tabacum,** tobacco, leaf with glandular hairs t.s.
As4955c **Galium,** w.m. of leaf showing climbing hairs
As4642d **Aesculus hippocastanum,** chestnut, leaf bud scales with colleteres t.s.

Typical monocot leaves

As412c • **Zea mays,** corn, monocot gramineous leaf t.s.
As415c • **Iris,** typical isobilateral leaf t.s.
As414c • **Lilium,** lily, leaf t.s. showing arm palisade cells
As429c **Allium schoenoprasium,** chive, t.s. of an unifacial folding leaf
As4166d **Aloe,** leaf t.s.
As4799c **Canna indica,** leaf t.s.
As4962c **Festuca,** grass, t.s. of leaf
As418c **Galanthus,** snowdrop, leaf t.s.
As4967c **Hyacinthus,** t.s. of leaf
As4167d **Musa,** banana, leaf t.s.
As4968c **Narcissus,** daffordil, t.s. of leaf
As413c **Poa annua,** meadow grass, leaf t.s.
As4172d **Saccharum,** sugarcane, leaf t.s.
As4961c **Secale,** rye, t.s. of stem enclosed in sheath leaves
As417c **Triticum,** wheat, t.s. of leaf showing stomata
As4183c **Tulipa,** tulip, t.s. of leaf

Typical dicot leaves

As453c • **Syringa,** lilac, t.s. of a typical mesophytic dicot leaf for general study, showing all structures very clearly
As4535c **Syringa,** paradermal l.s. through all leaf layers
As454c • **Ligustrum,** privet, t.s. of dicot leaf
As4541c **Ligustrum,** paradermal (horizontal) l.s. through all leaf layers
As455d • **Fagus,** beech, sun and shadow leaves t.s. on same slide for comparison of the different structures
As473d • **Helleborus,** t.s. of a typical mesophytic dicot leaf for general study, showing large cellular structures
As476c **Helianthus,** sunrose, t.s. of dorsiventral dicot leaf
As4964c **Ranunculus,** buttercup, t.s. of dicot leaf
As489c **Asclepias,** milkweed, leaf with lactiferous vessels t.s.
As449c **Begonia,** leaf t.s.
As488c **Belladonna,** deadly nightshade, leaf t.s.
As4676c **Beta vulgaris,** beet, leaf t.s.
As4971c **Brassica,** cabbage, t.s. of leaf
As4787d **Camellia (Thea) sinensis,** tea plant, leaf t.s.
As4785c **Coffea arabica,** coffee, leaf t.s.
As4965c **Dictamnus,** t.s. of leaf showing crystals
As446c **Eucalyptus,** an isobilateral foliage leaf t.s.
As459c • **Ficus elastica,** India rubber plant, leaf with cystoliths t.s.
As4912c **Gossypium,** cotton, leaf t.s.

Papaver, poppy, t.s. of flower with floral diagram

As4958c **Hedera,** ivy, t.s. of evergreen leaf
As4782c **Lycopersicum,** tomato, leaf t.s.
As490c **Medicago sativa,** alfalfa, leaf t.s.
As4918c **Populus,** poplar, leaf with calcium oxalate crystals t.s.
As4944c **Quercus,** oak, t.s. of leaf showing stomata
As477c • **Rosa,** rose, leaf with several palisade layers t.s.
As423c **Sagittaria,** arrowhead, leaf t.s.
As4792d **Vitis vinifera,** grape, leaf t.s.
As493d **Netted venation,** portion of dicot leaf w.m. showing venation only

Adaptation to water: hydrophytes and hygrophytes

As4155c • **Elodea,** t.s. of leaf showing the simple structure of an aquatic leaf
As416d • **Elodea,** w.m. of leaf showing large chloroplasts
As4946c **Calla palustris,** t.s. of leaf of a typical marshy plant
As4673c **Eichhornia,** water hyacinth, aquatic leaf t.s.
As4595c **Impatiens,** hydrophytic foliage leaf t.s.
As4948c **Lemna,** duckweed, t.s. of leaf
As4949c **Myosotis palustris,** w.m. of leaf showing hairs for water reservoir
As467c • **Nymphaea,** water lily, floating leaf of an aquatic plant with air chambers t.s.
As425c • **Potamogeton,** pondweed, leaf t.s.
As457d **Tropaeolum,** nasturtum, showing hydathodes, w.m. or t.s.
As419c **Vallisneria,** tape grass, leaf of an aquatic plant t.s.

Adaptation to dry habitat: xerophytes

As456c • **Nerium,** oleander, leaf with sunken stomata t.s., showing the typical structures of a xerophytic leaf
As4165d **Agava,** xerophytic leaf with thick epidermis t.s.
As4567c • **Ammophila,** xerophytic leaf t.s.
As475c **Calluna,** ling, revolute leaves t.s.
As4564d **Cistus,** leaf of an evergreen xerophytic shrub t.s.
As4492c **Clivia nobilis,** leaf t.s. showing typical xerophytic thick epidermis
As4752c • **Erica,** xerophytic leaf t.s.
As4914c **Hakea,** a proteacean, leaf t.s.
As4563d **Ilex,** holly, leaf t.s.
As4959c **Sempervivum,** t.s. of leaf for succulence
As4565d **Larea tridentata,** creosote bush, leaf of a desert plant t.s.
As4566c **Lavandula,** lavender, leaf with oil sacs, t.s.
As4916d **Olea,** olive tree, leaf t.s.
As458c • **Sedum,** stonecrop, a typical succulent leaf t.s.
As4969c **Sempervivum,** t.s. of succulent leaf
As4963c **Stipa capillata,** t.s. of revolute grass leaf

Adaptation to unusual modes of nutrition

As469c • **Dionaea,** Venus flytrap, t.s. of leaf with digestive glands
As4957f **Dischidia,** t.s. of pitcher leaf showing cauline root
As462d • **Drosera,** sundew, leaf with glandular hairs w.m.
As463c • **Drosera,** leaf with glandular hairs t.s.
As4951c **Lathraea squamaria,** t.s. of leaf without chloroplasts
As470d **Nepenthes,** pitcher plant, t.s. of pitcher with digestive glands
As460c • **Pinguicula,** butterwort, leaf with glandular cells t.s.
As4703d **Sarracenia,** pitcher plant, leaf t.s.
As465d • **Utricularia,** bladderwort, w.m. of bladder
As466c **Utricularia,** t.s. through leaves and bladders
As4941d **Viscum album,** mistletoe, t.s. of leaf showing chloroplasts

Leaf buds, leaf joints, leaf abscission

As451c • **Fagus,** beech, leaf bud t.s. showing leaf development
As452d • **Fagus,** beech, leaf bud l.s. showing leaf development
As4524d **Aesculus hippocastanum,** t.s. of leaf bud showing bud squama and embedded, folded leaves
As474d **Mimosa pudica,** sensitive plant, l.s. of leaf joint
As485d **Robinia pseudacacia,** black locust, leaflets with pulvini l.s.
As487d **Aesculus,** leaf base with leaf abscission l.s.
As361c **Acer platanoides,** maple, t.s. of petiole

V. FLOWERS AND FRUITS

Microspore development in Lilium

As521e **Lilium, anther** t.s., very young with microspore mother cells and tapetal layers
As522e **Lilium, anther** t.s., early prophase for general study
As523e **Lilium, anther** t.s., late prophase for general study
As5232e • **Lilium, anther** t.s., microspore mother cells in leptotene
As5233e • **Lilium, anther** t.s., microspore mother cells in zygotene
As5234e • **Lilium, anther** t.s., microspore mother cells in pachytene
As5235e • **Lilium, anther** t.s., microspore mother cells in diplotene
As5236e • **Lilium, anther** t.s., microspore mother cells in diakinesis
As524f • **Lilium, anther** t.s., microspore mother cells showing metaphase and anaphase of first (heterotypic) division (meiosis)
As5242f **Lilium, anther** t.s., microspore mother cells showing telophase of first and prophase of second (homeotypic) division
As525f • **Lilium, anther** t.s., microspore mother cells showing metaphase and anaphase of second (homeotypic) division (mitosis)
As526f • **Lilium, anther** t.s., microspore mother cells in tetrad stage
As5262e • **Lilium, anther** t.s., uninucleate (haploid) microspores after the separation of the daughter cells
As5264f **Lilium, anther** t.s., third division *
As5266e • **Lilium, anther** t.s., binucleate mature pollen grains at the time of shedding with tube cell and generative cell
As527d • **Lilium, anther** t.s. for general study showing pollen chambers and pollen grains
As5271d **Lilium, anther** l.s. for general study

Pollen types

As528b • **Lilium,** mature pollen grains w.m.
As577d **Tulipa,** anthers with pollen and pollen chambers t.s.
As625b • **Helianthus,** sunrose, pollen grains w.m.
As6252b **Ambrosia,** ragweed, pollen grains w.m.
As626b • **Corylus,** hazel, pollen grains w.m.
As6262b **Oenothera,** pollen w.m. showing viscin filaments
As6263b **Helianthus and Cucurbita,** pollen grains w.m.
As630c • **Mixed pollen types,** showing various forms of many different species

Fertilization

As529d **Lilium,** t.s. of stigma before pollination
As530e • **Lilium,** l.s. through pistil and stigma with pollen and pollen tubes
As531e **Lilium,** germinating pollen grains with pollen tubes w.m.
As609e • **Oenothera,** evening primrose, stigma with pollen grains and pollen tubes l.s.
As655e **Stigma of Eschscholtzia,** w.m. showing penetrating pollen
As656e • **Stigma of Eschscholtzia,** l.s. showing penetrating pollen
As6571e **Vicia,** bean, stigma and anthers, w.m.
As583d • **Fritillaria,** nectary with glands t.s.

Megaspore development in Lilium

As541e **Lilium, ovary** t.s., very young, showing the developing tissue before the formation of the megaspore mother cell. Abundant mitotic figures can be observed
As5412f **Lilium, ovary** t.s., with megaspore mother cell
As542f • **Lilium, ovary** t.s., showing uninucleate embryosac with megaspore mother cell
As543g **Lilium, ovary** t.s., uninucleate embryosac with first (heterotypic) division of megaspore mother cell *
As544h **Lilium, ovary** t.s., binucleate embryosac *
As545k **Lilium, ovary** t.s., showing second (homeotypic) division with two division figures *
As546h **Lilium, ovary** t.s., first four-nucleate stage *
As547h **Lilium, ovary** t.s., showing migration of three nuclei to the chalazal end of the embryosac while one nucleus remains in the micropylar end
As5472k **Lilium, ovary** t.s., showing third division after the three chalazal nuclei have fused *
As548g • **Lilium, ovary** t.s., second four-nucleate stage, a vacuole can be seen between the nuclei
As549i **Lilium, ovary** t.s., showing fourth division *
As550g **Lilium, ovary** t.s., showing the stage of eight-nucleate embryosac for general study, not all nuclei present
As551k • **Lilium, ovary** t.s., eight-nucleate embryosac showing all the nuclei in one or more serial sections *
As5514k **Lilium, ovary** t.s., embryosac showing double fertilization in one or more serial sections *

We will gladly make special offers for any slides or sets which are not listed in our catalogue. Please ask for further information.

Ovaries, formation of ovules and embryos (monocot)

As560d • **Lilium,** ovary t.s., showing arrangement of ovules and all structures for general study
As561d • **Lilium,** ovary l.s., showing arrangement of ovules and all structures for general study
As553f **Lilium,** ovary t.s., early embryonic stage
As554f • **Lilium.** ovary t.s., mature embryo
As555f • **Lilium,** ovary t.s., mature seed with embryo and endosperm
As571d • **Tulipa,** tulip, t.s. of ovary showing arrangement of ovules and all structures for general study
As572d • **Tulipa,** l.s. of ovary showing arrangement of ovules
As573d **Tulipa,** l.s. of ovary showing development of embryos
As574d **Iris,** t.s. of ovary showing arrangement of ovules
As575e **Iris,** t.s. of ovary showing later stage of embryo and endosperm
As582d **Fritillaria,** fritillary, ovary with embryosac t.s.
As584d **Hyacinthus,** ovary t.s.
As586d **Epipactis,** orchid, ovary with ovules t.s.
As564d **Ovary,** t.s. showing orthotropic attachment of ovules
As565d **Ovary,** t.s. showing anatropic attachment of ovules
As566d **Ovary,** t.s. showing kampylotropic attachment of ovules
As568s **Ovary types,** composite slide with four t.s. through various typical types of ovaries

Ovaries, formation of ovules and embryos (dicot)

As662d **Helleborus,** l.s. of atrope ovary
As664d • **Hyoscyamus,** t.s. of young ovary
As665d • **Hyoscyamus,** t.s. of older ovary
As663d **Impatiens,** t.s. of ovary
As615d **Lathraea,** toothwort, ovary of a parasitic plant t.s.
As6151d **Lathraea,** t.s. of young ovary
As6152d **Lathraea,** t.s. of elder ovary
As614d **Monotropa,** Indian pipe, ovary t.s. with developing embryosacs
As616d **Rosa,** rose, ovary t.s.
As6132d • **Solanum,** potato, t.s. of ovary with formation of embryos
As619d • **Capsella bursa pastoris,** shepherd's purse, l.s. of ovule with embryos in situ for general study
As6192f **Capsella,** l.s. of embryo in precotyledon stage
As6193f **Capsella,** l.s. of embryo in early cotyledon stage
As6194f **Capsella,** l.s. of embryo in later cotyledon stage
As6195f **Capsella,** l.s. of embryo with curving cotyledons (mature)

Flowers and floral diagrams (monocot)

As501e **Monocot and dicot flower buds** t.s. on same slide for comparison
As511d • **Lilium candidum,** lily, t.s. of flower bud showing floral diagram of a monocot
As512d • **Lilium,** l.s. of flower bud
As653d **Galanthus,** snowdrop, t.s. of flower
As5778d **Secale,** rye, t.s. of a typical gramineous flower
As5798d **Zea,** t.s. of male flower
As588d **Anthurium,** flamingo plant, pedicel with flowers t.s.
As590e **Arum maculatum,** cuckoopint, l.s. of flower, insect trap
As657d **Arum maculatum,** t.s. of flower bud showing ovary

Flowers and floral diagrams (dicot)

As651d • **Bellis,** l.s. of a composite flower bud
As652d **Caltha palustris,** l.s. of flower
As658d **Cheirantus,** wallflower, t.s. of flower bud with marginal-parietale placentation
As593d • **Corylus avellana,** hazel, diclinous male flower l.s.
As594d • **Corylus avellana,** diclinous female flower l.s.
As6551d **Cucurbita,** pumpkin, t.s. of female flower
As654d **Linum,** flax, t.s. of flower
As601d • **Lycopersicum,** tomato, t.s. of flower bud shows floral diagram and axile placentation
As602d • **Lycopersicum,** l.s. of flower bud
As6521d **Magnolia,** t.s. of flower bud showing anthers with microspore mother cells
As606d • **Papaver,** poppy, t.s. of flower shows parietal placentation
As607d • **Papaver,** poppy, t.s. of older flower, formation of embryos
As599d **Pyrus malus,** apple, flower bud with hypogynous ovary l.s.
As6561d **Primula,** primose, t.s. of flower
As600d **Prunus avium,** cherry, flower bud with perigynous ovary l.s.
As595d **Ranunculus,** buttercup, l.s. of flower
As659d **Rhododendron,** t.s. of flower showing bud scales
As603d **Ribes,** currant, l.s. of flower bud
As6522d **Senecio,** t.s. of a composite flower
As613d • **Solanum tuberosum,** potato, t.s. flower bud for floral diagram
As604d • **Taraxacum,** dandelion, l.s. of composite flower with tubular florets and ligulate florets
As605d • **Taraxacum,** t.s. of composite flower

Triticum, wheat, grain l.s. showing embryo

Simple fruits

As576d • **Iris,** t.s. of mature seed
As639d **Cruzifera sp.,** mustard or other, t.s. of silique with seed
As627c • **Cocos nucifera,** coconut, endosperm t.s.
As631d • **Lycopersicum,** tomato, young fruit t.s.
As632d **Prunus domestica,** plum, young drupe (stone fruit) t.s.
As634d **Juglans regia,** walnut, young drupe (stone fruit) t.s.
As6375d **Corylus avellana,** hazelnut, young stone fruit t.s.
As640d **Citrus,** lemon, young fruit t.s.
As644d **Aesculus hippocastanum,** chestnut, young fruit l.s.

Aggregate fruits

As596d **Ranunculus,** l.s. of fruit
As597d **Ranunculus,** t.s. of fruit
As633d • **Pyrus malus,** apple, young pome t.s., a fleshy, many seeded fruit
As6165d **Rosa,** syncarpous fruit l.s.
As641d **Rubus idaeus,** raspberry, young aggregate fruit l.s.
As642d **Fragaria,** strawberry, young aggregate fruit l.s.
As6035d **Ribes,** l.s. of a simple berry fruit
As643d **Morus,** mulberry, young multiple fruit l.s.
As645e **Ficus carica,** fig, young fruit t.s.

Seeds

As578d • **Triticum,** wheat, grain (seed), t.s. showing embryo and endosperm
As579e • **Triticum,** grain (seed), sagittal l.s. showing embryo and endosperm
As580d • **Zea mays,** corn, grain (seed) l.s. showing embryo and endosperm

As6641d • **Zea mays,** young corn cob t.s.
As5809e **Zea mays or Triticum,** germinating seed l.s.
As581d **Secale,** rye, grain (seed) t.s.
As6621d **Asparagus,** t.s. of seed
As585d • **Hyacinthus,** mature seed t.s.
As623d • **Helianthus,** sunflower, t.s. of achene fruit
As638d • **Phaseolus,** bean, t.s. of pod showing pericarp and seed
As622d **Tropaeolum,** nasturtium. semen (seed) t.s.
As635d **Amygdalus,** almond, endosperm t.s.
As636d **Myristica,** nutmeg, endosperm t.s.
As661c • **Ricinus,** t.s. of seed showing aleurone grains in endosperm with cotyledons
As628d • **Juglans,** walnut, mesocarp with stone cells t.s.
As629b • **Populus,** poplar, hairs from seed w.m.

ULTRATHIN SECTIONS

Our ultrathin sections of animal and plant tissue are cut at 1,5 µm (micrometers) as compared to 5–10 µm for conventional sections. This augments the possibilities for exploration of animal and plant cells without special microscopes. The eminent clarity of cells makes visible a lot of cell details which up to now could not be investigated in standard tissue sections. Depending on the extremely short depth of field ultrathin sections are very easy focusing on for students.

LIST OF CONTENTS: PREPARED MICROSCOPE SLIDES IN SYSTEMATIC ORDER