THE MULTIMEDIA PROGRAM MICROSCOPIC BIOLOGY

FOR INTERACTIVE LEARNING

The new MULTIMEDIA PROGRAM FOR MICROSCOPIC BIOLOGY aims to give a strictly outlined synopsis of all those lines of biology important for instruction at schools, colleges and universities and suitable for working with the microscope.

A considerable part of the Program is an extensive manual with detailed descriptions and drawings of the prepared microscope slides and photomicrographs of the school series A, B, C and D. A well selected complementary media package with overhead transparencies, sketch- and work sheets, descriptions and pictures of the drawings, and new CD-ROM serves the teacher to work with the subject during the lessons. The abundant material offers the teacher the opportunity to select and to vary the content to tailor the lesson for each class.

The following media are offered with the Multimedia Program:



Please note:

The Multimedia-Program with all parts is available in the following languages: **English, German, Spanish, Portuguese, French, Italian.** Please name the requested language when ordering.



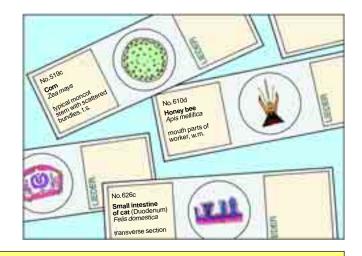


MEDIA

1. Prepared Microscope Slides

Basic component of the program are the A, B, C and D series comprising of 175 microscope slides. The four series are arranged systematically and constructively compiled, so that each enlarges the subject line of the proceeding one. They contain slides of typical microorganisms, of cell division and of embryonic developments as well as of tissues and organs of plants, animals and man. Each of the slides has been carefully selected on the basis of its instructional value.

LIEDER prepared microscope slides are made in our laboratories under scientific control. They are the product of long experience in all spheres of preparation techniques. Microtome sections are cut by highly skilled staff, cutting technique and thickness of the sections are adjusted to the objects. Out of the large number of staining techniques we select those ensuring a clear and distinct differentiation of the important structures combined with best permanency of the staining. Generally, these are complicated multicolor stainings. LIEDER prepared microscope slides are delivered on best glasses with ground edges of the size 26 x 76 mm (1 x 3").



The number of series in hand should correspond approximately to the number of microscopes to allow several students to examine the same prepared microscope slides at the same time. For this reason all slides out of the series can be ordered individually also. So, important microscope slides can be supplied for all students.

No. 500 School Set A for General Biology, Elementary Set 25 microscope slides

Zoology

- 501e Amoeba proteus, w.m. showing nucleus and pseudopodia
- 502e **Hydra**, w.m. extended specimen to show foot, body, mouth, and tentacles
- 503c **Lumbricus**, earthworm, typical t.s. back of clitellum showing muscular wall, intestine, typhlosole, nephridia etc.
- 504c Daphnia and Cyclops, small crustaceans from fresh water
- 505d **Musca domestica**, house fly, head and mouth parts (proboscis) w.m.
- 506b **Musca domestica**, leg with clinging pads (pulvilli)
- 507c Apis mellifica, honey bee, anterior and posterior wing Histology of Man and Mammals
- 508c Squamous epithelium, isolated cells from human mouth
- 509d Striated muscle, l.s. showing nuclei and striations
- 510d Compact bone, t.s. special stained for cells, lamellae, and canaliculi
- 511d **Human scalp**, vertical section showing I.s. of hair follicles, sebaceous glands, epidermis
- 512c Human blood smear, stained for red and white corpuscles

- Botany, Bacteria and Cryptogams
- 513d Bacteria from mouth, smear Gram stained showing bacilli, cocci, spirilli, spirochaetes
- 514c Diatoms, strewn slide of mixed species
- 515c Spirogyra, vegetative filaments with spiral chloroplasts
- 516c Mucor or Rhizopus, mold, w.m. of mycelium and sporangia
- 517c **Moss** stem with leaves w.m. Botany, Phanerogams
- 518c **Ranunculus**, buttercup, typical dicot root t.s., central stele
- 519c Zea mays, corn, monocot stem with scattered bundles t.s.
- 520c Helianthus, sunflower, typical herbaceous dicot stem t.s.
- 521c **Syringa**, lilac, leaf t.s. showing epidermis, palisade parenchyma, spongy parenchyma, vascular bundles
- 522d Lilium, lily, anthers with pollen grains and pollen sacs t.s.
- 523d Lilium, ovary t.s. showing arrangement of ovules
- 524c Allium cepa, onion, w.m. of epidermis shows simple plant cells with cell walls, nuclei, and cytoplasm
- 525d Allium cepa, l.s. of root tips showing cell divisions (mitosis) in all stages, carefully stained

No. CD050 Interactive CD-ROM with Teaching Material to the School Set A (Description see page 11)

No. 600 School Set B for General Biology, Supplementary Set 50 microscope slides

Zoology and Parasitology

- 601d **Paramaecium**, nuclei stained
- 602c Euglena, a common flagellate with eyespot
- 603c **Sycon**, a marine sponge, t.s. of body
- 604e Dicrocoelium lanceolatum, sheep liver fluke, w.m.
- 605c **Taenia saginata**, tapeworm, proglottids of various ages t.s.
- 606d Trichinella spiralis, l.s. of skeletal muscle showing encysted lar-
- 607d **Ascaris**, roundworm, t.s. of female in region of gonads
- 608b Araneus, spider, leg with comb w.m.
- 609d Araneus, spider, spinneret w.m.
- 610d **Apis mellifica**, honey bee, mouth parts of worker w.m.
- 611b Apis mellifica, hind leg of worker with pollen basket w.m.
- 612e **Periplaneta**, cockroach, chewing mouth parts w.m.
- 613b **Trachea** from insect w.m.
- 614b **Spiracle** from insect w.m.
- 615d **Apis mellifica**, sting and poison sac w.m.
- 616b **Pieris**, butterfly, portion of wing with scales w.m.



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- 617d Asterias rubens, starfish, arm (ray) t.s. showing tube feet, digestive gland, ampullae Histology of Man and Mammals
- 618e Fibrous connective tissue of mammal
- 619c Hyaline cartilage of mammal, t.s.
- 620e Adipose tissue, stained for fat
- 621d Smooth (involuntary) muscle l.s. and t.s.
- 622e Medullated nerve fibres, teased preparation of osmic acid fixed
- material showing Ranvier's nodes Frog blood smear, showing nucleated red corpuscles 6230
- 624d Artery and vein of mammal, t.s.
- 625d Liver of pig, t.s. showing well developed connective tissue
- 626c Small intestine of cat, t.s. showing mucous membrane
- Lung of cat, t.s. showing alveoli, bronchial tubes 627c
- Botany, Cryptogams 628c
- Oscillatoria, a common blue green filamentous alga 629e Spirogyra in scalariform conjugation, formation of zygotes
- 630c Psalliota, mushroom, t.s. of pileus with basidia and spores
- Morchella, morel, t.s. of fruiting body with asci and spores 631c
- Marchantia, liverwort, antheridial branch with antheridia l.s. 632d
- 633d Marchantia, archegonial branch with archegonia l.s.
- 634d Pteridium, braken fern, rhizome with vascular bundles t.s.
- 635d Aspidium, t.s. of leaf with sori showing sporangia and spores

Botany. Phanerogams

- 636e Elodea, waterweed, stem apex l.s. showing meristematic tissue and leaf origin
- 637d Dahlia, t.s. of tuber with inuline crystals
- 638b Allium cepa, onion, w.m. of dry scale showing calcium oxalate crvstals
- 639d Pyrus, pear, t.s. of fruit showing stone cells
- 640c Zea mays, corn, typical monocot root t.s.
- 641c Tilia, lime, woody dicot root t.s.
- 642c Solanum tuberosum, potato, t.s. of tuber with starch and cork cells
- 643c Aristolochia, birthwort, one year stem t.s.
- 644c Aristolochia, older stem t.s. shows secondary growth
- 645d Cucurbita, pumpkin, I.s. of stem with sieve tubes, annular and reticulate vessels, sclerenchyme fibres
- 646d Root tip and root hairs
- 647c Tulipa, tulip, epidermis of leaf with stomata and guard cells w.m., surface view
- 648c Iris, typical monocot isobilateral leaf, t.s.
- 649c Sambucus, elderberry, stem showing lenticells and cork cambium t.s.
- 650e Triticum, wheat, grain (seed) sagittal l.s. with embryo and endosperm

No. CD060 Interactive CD-ROM with Teaching Material to the School Set B (Description see page 11)

No. 700 School Set C for General Biology, Supplementary Set 50 microscope slides

Zoology and Parasitology

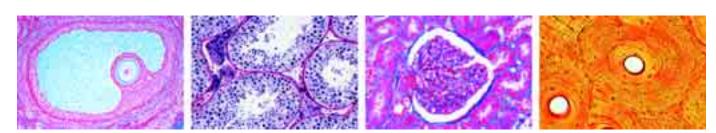
- 701f Trypanosoma gambiense, causing sleeping disease, blood smear
- 702f Plasmodium berghei, malaria parasite, blood smear
- 703d Radiolaria, strewn slide of mixed species
- 704d Foraminifera, strewn slide of mixed species
- 705d Obelia hydroid, w.m. of colony with hydrants and gonothecae
- 706d Hydra, t.s. of body in different levels. Ectoderm, entoderm
- Planaria, typical t.s. through the body 707c
- Apis mellifica, honey bee, head with compound eyes and brain 708e
- 709d Apis mellifica, abdomen of worker t.s., with intestine and nephridia
- 710e Ctenocephalus canis, dog flea, adult w.m.
- 711d Dermanyssus gallinae, chicken mite, adult w.m.
- 712d Helix pomatia, snail, hermaphrodite gland (ovotestis), t.s. with developing ova and spermatozoa
- 713d Mya arenaria, clam, gills t.s. and l.s. showing ciliated epithelium
- Branchiostoma lanceolatum (Amphioxus), typical t.s. of body 714d with gills, liver, and gonads
- 715c Bird feathers, w.m. of two types: wing or vane and down feathers Embryology
- 716e Salamandra larva, sections from selected material showing mitotic stages in skin and other organs
- 717f Chicken embryo, 48 hour, t.s. with neural tube and chorda Histology of Man and Mammals
- 718d Ovary of cat, t.s. with primary, secondary, and Graafian follicles
- 719d Testis of mouse, t.s. showing spermatogenesis in all stages
- Cerebellum of cat, t.s. shows Purkinje cells 720d
- 721c Spinal cord of cat, t.s. showing white and grey matter, nerve cells
- 722d Kidney of cat, t.s. through cortex and medulla
- 723d Retina of cat, t.s. for detail of rods and cones
- 724e Tongue of rabbit, t.s. of papilla foliata with abundant taste buds

Botany, Bacteria and Cryptogams

- 725d Bacillus subtilis, hay bacillus, smear with bacilli and spores
- 726d Streptococcus lactis, milk souring organisms, smear showing chains
- 727e Volvox, with daughter colonies and sexual stages, w.m.
- 728d Fucus vesiculosus, brown alga, female conceptacle with oogonia t.s.
- 729d Fucus vesiculosus, male conceptacle with antheridia t.s.
- Cladophora, green alga, branched filaments with multinucleate 730c cells
- 731c Claviceps purpurea, ergot, sclerotium t.s.
- 732d Puccinia graminis, wheat rust, uredinia on wheat leaf t.s.
- 733d Puccinia graminis, aecidia and pycnidia on barberry leaf t.s.
- Saccharomyces, yeast, budding cells w.m. 734b
- 735d Physcia, foliose lichen, thallus with symbiotic algae t.s.
- 736e Fern prothallium, w.m. showing sex organs 737d Equisetum, horse tail, strobilus with spores l.s.
- Botany, Phanerogams
- 738d Lupinus, lupin, root nodules with symbiotic bacteria t.s.
- 739c Euphorbia, spurge, stem with lactiferous ducts l.s.
- 740d Pinus, pine, three sections of wood: transverse, radial, tangential
- 741d Tilia, lime, three sections of wood: transverse, radial, tangential
- 742d Elodea, waterweed, aquatic stem with primitive bundle t.s.
- Cucurbita, pumpkin, stem t.s. showing bicollateral bundles and 743d sieve plates
- 744d Fagus, beech, sun and shade leaves, two t.s. for comparison
- 745c Nerium, oleander, xerophytic leaf with sunken stomata, t.s.
- 746d Pinus, pine, male cone with pollen l.s.
- 747d Pinus, female cone with ovules l.s.
- Pinus, mature pollen grains with wings w.m. 748h
- 749f Lilium, lily, t.s. of very young anthers showing meiotic stages of the pollen mother cells
- 750d Taraxacum, dandelion, composite flower l.s.



No. CD070 Interactive CD-ROM with Teaching Material to the School Set C (Description see page 11)



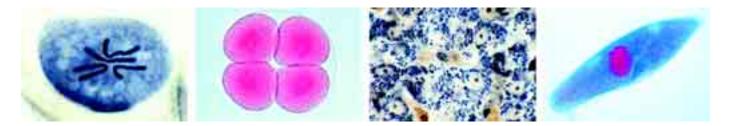
No. 750 School Set D for General Biology, Supplementary Set 50 microscope slides

754	Histology of Man and Mammals	779f	Meiotic and mitotic stages in sec. of crayfish testis. Nuclear
751c 752d	Ciliated epithelium , in t.s. of fallopian tube of pig Tendon of cow, l.s. showing white fibrous tissue, stained for fibres	780f	spindles are present Maturation divisions in ova of Ascaris megalocephala, different
753f	and cells Heart muscle, human, t.s. and l.s., branched fibres with central nuclei and intercalated discs	781f	stages, iron-hematoxylin stained Cleavage stages in ova of Ascaris megalocephala, iron- hematoxylin stained
754c 755c	Lymph gland of pig, t.s. showing lymphoid tissue		Bacteria and Diseased Organs of Man
7550	Esophagus of cat, t.s. with stratified squamous epithelium, muscular layers	782d	Escherichia coli, bacteria from colon, probably pathogenic, smear Gram stained
756d 757d	Stomach of cat, t.s. through fundic region showing gastric glands Large intestine (colon), t.s. special stained for the mucous cells	783d	Eberthella typhi, causing typhoid fever, smear from culture, Gram
758d	Pancreas of pig, sec. showing islets of Langerhans	784e	stained Tuberculous lung, t.s. of diseased human lung showing miliary
759d	Thyroid gland of pig, sec. showing glandular epithelium and colloid		tubercles in tissue
760d	Adrenal gland of cat, t.s. through cortex and medulla	785e	Coal dust lung (Anthracosis pulmonum), t.s. of human smoker's lung
761d 762e	Sperm of bull (spermatozoa), smear	786e	Liver cirrhosis of man caused by alcohol abuse, t.s. showing
762e	Motor nerve cells , smear from spinal cord of cow showing w.m. of motor nerve cells and their processes	787e	degeneration of liver cells Arteriosclerosis, t.s. of diseased human coronary artery showing
763f	Cerebrum, human, t.s. of cortex showing pyramidal cells and		sclerotic changes in the arterial wall
764d	fibrous region Human skin from palm, v.s. showing cornified epidermis,	788e	Metastatic carcinoma (cancer) of human liver, t.s. Embryology
	germinative zone, sweat glands	789e	Sea-urchin development (Psammechinus miliaris), composite
765f	Zoology Distomum hepaticum (Fasciola), the beef liver fluke, w.m. and	790e	slide with two cell, four cell and eight cell stages Sea-urchin development (Psammechinus miliaris), composite
7004	stained for general study of internal organs		slide with morula, blastula and gastrula stages
766f 767e	Taenia spec., tapeworm, w.m. of mature proglottids Culex pipiens, mosquito, head and piercing-sucking mouth parts	791f	Frog embryology (Rana spec.), sec. trough the blastula stage showing the blastocoel
700-	of female, w.m.	792f	Frog embryology (Rana spec.), sag. sec. through young larva
768e	Culex pipiens , mosquito, head and reduced mouth parts of male, w.m.		in the tail bud stage, with primordia of organs Ecology and Environment
769f	Cimex lectularius, bed bug, w.m. of adult specimen	793e	Leaf (needle) of fir (Abies), two t.s. of leaves, healthy and
770f	Cytology and Genetics Mitochondria, in thin sec. through liver or kidney, special staining	794e	damaged by environmental influences (acid rain) Leaf of beech (Fagus), two t.s. of leaves, healthy and damaged
	technique		by environmental influences (acid rain)
771g	Golgi apparatus , t.s. through spinal ganglion, special staining technique	795d	Bacteria from waste-water, smear with many typical forms Botany
772d	Chloroplasts, in leaf of Elodea or Mnium, special stained	796c	Nostoc, blue green alga, filamentous colonies within gelatinous
773c 774f	Aleurone grains, in sec. of Ricinus endosperm Storage, section of liver or kidney, vital stained with trypan-blue	797e	sheaths Desmids (Desmidiaceae), strewn slide of various species
	to demonstrate storage in epithelial cells	798c	Sphagnum, peat moss, w.m. of leaf showing chlorophyll-bearing
775g 776g	DNA in cell nuclei , demonstrated by Feulgen staining technique DNA and RNA , fixed and stained with methyl green and pyronine	799c	and hyaline cells. Triticum, wheat, t.s. of stem of a gramineous plant with central
U	to show DNA and RNA in different colors		pith and circular arrangement of bundles
777f	Giant chromosomes from the salivary gland of Chironomus. Individual genes and puffs can be observed	800c	Salvia, sage, t.s. of a square stem with angular collenchyma
778h	Human chromosomes, spread in the stage of metaphase, for counting chromosomes		
	No. CD075 Interactive CD-ROM with Teaching N	laterial	to the School Set D (Description see page 11)

No. 500	Microscope Slides, School Set A for General Biology, Elementary Set 25 slides
No. 600	Microscope Slides, School Set B for General Biology, Supplementary Set 50 slides
No. 700	Microscope Slides, School Set C for General Biology, Supplementary Set 50 slides
No. 750	Microscope Slides, School Set D for General Biology, Supplementary Set 50 slides
No. 850	Microscope Slides, School Set A, B, C and D together, All four sets, 175 slides

Prices of individual microscope slides: Each slide in our catalogues is identified by a list number which ends with a small letter. This end-letter designates the price of the slide according to the code specified in the enclosed price-list.

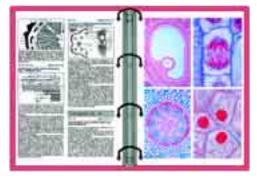
Boxes for prepared microscope slides: Microscope slides can be shipped in special slide boxes only for technical reasons. These boxes are available in various types and price categories and should be ordered together with the slides. Unless specified by the customer we supply standard type boxes of suitable size for our microscope slide sets and individual slides (e.g. K12, K25, K50, K100). Please see price-list.



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2. Color Atlas of Overhead Projector Transparencies. *New Edition 2006*



The atlas comprises 45 transparency sheets (size 22 x 28 cm) showing the 175 color photomicrographs of the series A, B, C and D, but often in several magnifications, therefore the total number of individual pictures is over 252. The compilation and the individual titles of the atlas also corresponds to the A, B, C and D series of prepared microscope slides. Transparencies immediately show, on the screen, the details of the specimen required for demonstration at the most suitable magnification. The student subsequently finds it easier to locate the relevant part of the microscopic slide under

the microscope. The transparencies are printed by a special process and excel by reason of their high projection quality. They are held in a strong plastic file with ring mechanism. This OHP Transparency Atlas is offered for teachers who prefer classroom work with the OHP projector instead of the 5 x 5 cm slide projector.

For detailed description please see page 113 in this catalogue.

No. 8236E Transparency-Atlas with the Pictures of Sets A, B, C, D 抗

Atlas of 45 OHP Transparencies comprising over 252 color photomicrographs according to the 175 Prepared Microscope Slides of the **MULTIMEDIA-SYSTEM FOR BIOLOGY A, B, C and D**. This atlas of OHP transparencies is intended to present a clear-cut outline of all fields of biology and cover all the organisms studied in schools. Each of the specimens has been carefully chosen on the basis of its instructional value. - Text: Dr. K.-H. Meyer, B.S. - NEW EDITION

Zoology. - Amoeba proteus - Radiolaria, mixed - Foraminifera, mixed - Euglena, flagellate - Trypanosoma gambiense, blood smear - Plasmodium, malaria, blood smear - Paramaecium, nuclei stained - Sycon, marine sponge t.s. - Hydra, w.m. - Hydra, t.s. - Obelia hydroid - Planaria, t.s. - Dicrocoelium lanceolatum, sheep liver fluke - Distomum hepaticum (Fasciola), beef liver fluke - Taenia saginata, tapeworm, proglottids t.s. - Taenia, tapeworm, w.m. proglottid - Trichinella spiralis, encysted larvae - Ascaris, roundworm, t.s. female - Lumbricus, earthworm, typical t.s. back of clitellum - Daphnia and Cyclops - Araneus, spider, leg with comb - Araneus, spinneret - Dermanyssus gallinae, chicken mite - Musca domestica, house fly, head and mouth parts - Musca, leg - Apis mellifica, honey bee, mouth parts - Apis, wings - Apis, hind leg of worker - Apis, sting and poison sac - Apis, head with compound eyes t.s. - Apis , abdomen of worker t.s. - Periplaneta, cockroach, chewing mouth parts - Culex pipiens, mosquito, mouth parts of female - Culex, mouth parts of male - Trachea from insect - Spiracle from insect - Pieris, butterfly, wing with scales - Ctenocephalus canis, dog flea - Cimex lectularius, bed bug - Helix pomatia, snail, hermaphrodite gland t.s. - Mya, clam, gill sec. - Bird feathers - Asterias rubens, starfish, arm t.s. - Branchiostoma (Amphioxus), typical t.s.

Histology of Human and Mammals. Squamous epithelium - Ciliated epithelium, t.s. - Fibrous connective tissue - Tendon, I.s. white fibrous tissue - Adipose tissue, fat - Hyaline cartilage t.s. - Compact bone, t.s. - Striated muscle, I.s. - Heart muscle, human, I.s. intercalated discs - Smooth muscle I.s. and t.s. - Lung of cat, t.s. - Human blood smear - Frog blood smear - Artery and vein of mammal, t.s. - Lymph gland of pig, t.s. - Thyroid gland of pig, sec. colloid - Adrenal gland of cat, t.s. - Esophagus of cat, t.s. - Stomach of cat, t.s. fundic - Small intestine of cat, t.s. - Lurge intestine, t.s. mucous cells - Liver of pig, t.s. - Pancreas of pig, sec. with islets of Langerhans - Kidney of cat, t.s. - Ovary of cat, t.s. with follicles - Testis of mouse, t.s. spermatogenesis - Sperm of bull, smear - Medullated nerve fibres, Ranvier's nodes - Motor nerve cells, smear from spinal cord - Spinal cord of cat, t.s. with taste buds - Human skin from palm, v.s. sweat glands - Human scalp, I.s. of hair follicles

Botany, Bacteria and Cryptogams. Bacteria from mouth - Bacillus subtilis, hay bacillus - Streptococcus lactis, milk souring - Oscillatoria - Nostoc - Diatoms, mixed - Cladophora, green alga, multinucleate cells - Volvox, daughter colonies and sexual stages - Spirogyra, vegetative - Spirogyra in conjugation - Desmids, various species - Fucus, brown alga, female conceptacle t.s. - Fucus , male conceptacle t.s. - Mucor, mold - Morchella, morel, t.s. of asci and spores - Cla-viceps, ergot, sclerotium t.s. - Saccharomyces, yeast, budding - Psalliota, mushroom, t.s. of pileus - Puccinia, wheat rust, uredinia t.s. - Puccinia, aecidia and pycnidia t.s. - Physcia, lichen, thallus with symbiotic algae t.s. - Marchantia, liverwort, antheridia I.s. - Marchantia, archegonia I.s. - Moss stem with leaves w.m. - Sphagnum, peat moss, w.m. of leaf - Fern prothallium, sex organs - Pteridium, fern, rhizome t.s. - Aspidium, t.s. leaf with sori - Equisetum, horse tail, strobilus I.s.

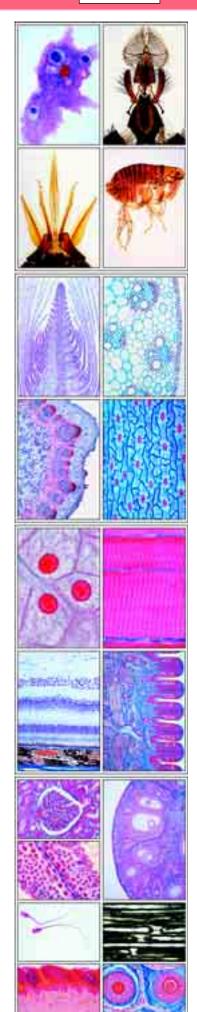
Botany, Phanerogams. Allium cepa, onion, w.m. of epidermis - Root tip and root hairs - Zea mays, corn, monocot root t.s. - Ranunculus, buttercup, dicot root t.s. - Tilia, lime, woody dicot root t.s. - Dahlia, t.s. tuber with inuline - Lupinus, lupin, root nodules with symbiotic bacteria t.s. - Elodea, stem apex l.s. - Zea mays, corn, monocot stem t.s. - Helianthus, sunflower, dicot stem t.s. - Pyrus, pear, t.s. stone cells - Solanum tuberosum, potato, tuber t.s. - Elodea, aquatic stem t.s. - Triticum, wheat, t.s. stem - Aristolochia, one year stem t.s. - Aristolochia, older stem t.s. - Sambucus, stem with lenticells t.s. - Tilia, lime, three sections of wood - Cucurbita, pumpkin, stem l.s. of sieve tubes - Cucurbita, stem t.s. of sieve plates - Euphorbia, spurge, stem with lactiferous ducts l.s. - Salvia, sage, t.s. of a square stem - Tulipa, epidermis of leaf with stomata w.m. - Iris, monocot leaf t.s. - Syringa, lilac, leaf t.s. - Fagus, beech, sun and shade leaves, two t.s. - Nerium, oleander, leaf with sunken stomata, t.s. - Lilium, lily, anthers t.s. - Lilium, ovary t.s. - Taraxacum, dandelion, composite flower l.s. - Prinus, pollen grains

Cytology and Genetics. Allium cepa, I.s. of root tips showing mitosis - Lilium, t.s. of young anthers, meiotic stages -Salamandra, sections with mitotic stages - Mitochondria - Golgi apparatus, t.s. spinal ganglion - Chloroplasts, in leaf of Mnium - Aleurone grains - Allium, onion, showing calcium oxalate crystals - Storage, section of liver, vital stained - DNA in cell nuclei, Feulgen - DNA and RNA in different colors - Giant chromosomes from salivary gland of Chironomus - Human chromosomes, stage of metaphase - Crayfish testis, with nuclear spindles - Maturation divisions in ova of Ascaris megalocephala - Cleavage stages in ova of Ascaris

Embryology. Chicken embryo, 48 hour, t.s. with neural tube and chorda - Sea-urchin development, two cell, four cell and eight cell stages - Sea-urchin, morula, blastula and gastrula - Frog embryology (Rana), sec. blastula - do. sag. sec. young larva in tail bud stage

Bacteria and Diseased Organs of Man. Escherichia coli - Eberthella typhi, typhoid fever - Tuberculous lung of man, t.s. - Coal dust lung of man, t.s. (smoker's lung) - Liver cirrhosis of man caused by alcohol abuse, t.s. - Arteriosclerosis, t.s. of coronary artery - Metastatic carcinoma (cancer) of human liver, t.s.

Ecology and Environment. Leaf (needle) of fir (Abies), two t.s. of leaves, healthy and damaged by environmental influences (acid rain) - Leaf of beech (Fagus), two t.s. of leaves, healthy and damaged by environmental influences (acid rain) - Bacteria from waste-water, typical forms

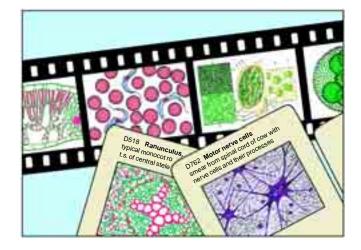


3. Color Photomicrographs 35 mm (original exposure)

The projection of a 35 mm photomicrograph going with the prepared slide makes it easier for the student to discover and interpret the important structures of the microscope slide under the microscope. LIEDER color photomicrographs show on the screen the requested section in the best magnification.

Our photomicrographs are full color 35 mm transparencies of maximum quality made from excellent and carefully selected prepared microscope slides. In order to obtain the highest quality for the projection all transparencies are original exposures, i.e. each LIEDER color photomicrograph is individually photographed from the specimen through high standard microscopes with automatic cameras of the most advanced technique. Consequently, there is no loss of quality which could arise from a copying process.

LIEDER color photomicrographs are of high definition and clarity, coupled with color reproduction which has resulted in slides of unsurpassed quality. Such high quality transparencies enables the maximum amount of information to be illustrated in such a manner that it can be readily appreciated by the student.



LIEDER photomicrographs are mounted between glass in solid dust-proof 50 x 50 mm (2x2") frames. Compilation and individual titles of the A, B, C and D series of PHOTOMICROGRAPHS correspond strictly to those of the A, B, C and D series of PREPARED MICROSCOPE SLIDES.

- No. D50 Photomicrographs 35mm, School Set A General Biology, Elementary Set 25 projection slides List of Contents and Individual Titles see Microscope Slide School Set A, page 4
- No. D60 Photomicrographs 35mm, School Set B General Biology, Supplementary Set 50 projection slides List of Contents and Individual Titles see Microscope Slide School Set B, page 4 - 5
- No. D70 Photomicrographs 35mm, School Set C General Biology, Supplementary Set 50 projection slides List of Contents and Individual Titles see Microscope Slide School Set C, page 5
- No. D75 Photomicrographs 35mm, School Set D General Biology, Supplementary Set 50 projection slides List of Contents and Individual Titles see Microscope Slide School Set D, page 5 - 6
- No. D85 Photomicrographs 35mm, School Sets A, B, C, D together. All four sets, 175 projection slides

If individual photomicrographs are ordered, the according order no. of the prepared microscope slide only has to be marked with the letter 'D' before (e.g. D507, D624, D749 etc.). - Prices for individual photomicrographs according to the attached price-list.

4. Manual with Texts and Drawings

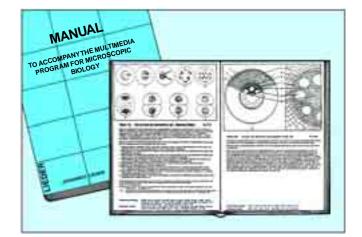
With this manual the intent is to facilitate the study of microscope slides and photomicrographs and their interpretation.

The Multimedia Program consisting of 175 microscope slides, color photomicrographs 35mm, overhead transparencies, sketchand work sheets, and wall charts constituted the basis for the conception of the manual. However, anyone who works with microscopic slides and photomicrographs will find the manual helpful in the discovery of new details, their interpretation and understanding.

The Drawings.

Microscope slides, the basic medium, are studied under the microscope using different magnifications to discover details. The projection of the color photomicrographs 35mm immediately demonstrates in optimum magnification the desired detail of the slide, thus enabling the pupil to easily and quickly find this detail in his mount.

The semidiagrammic drawings, the third medium, separate the important from the unimportant, interpreting and introducing connections.



The Descriptions.

The text pertaining to each of the 175 drawings gives a detailed description of the microscopic slide, the photomicrograph 35mm and the drawing. It also makes suggestions for the best use of the Multimedia Program in class.

- The morphological structures are described and the code of numbers in the drawings is explained.
- Information is given about systematic and physiological connections as well as biological principles: the evolution from primitive to highly developed organisms, division of labour, specialization and how organisms solve certain problems. Life cycles of parasitic plants and animals are discussed.

MEDIA

- Information is further given about methods of collecting and studying living material to make lessons interesting. Microtechnical
 methods of fixing, staining and mounting are explained where possible.
- Each text refers to supplementary microscope slides and projection slides which enable the teacher to intensify and increase the knowledge of the subject. Due to the limited space only catalogue numbers of these supplementary media materials are given. Their exact labels and detailed descriptions are listed on the respective pages of this catalogue.

No. T8500 Manual to the Multimedia Program Microscopic Biology, 190 pages with 175 drawings and texts

The following (see page 12) strongly reduced examples of pages from the "Manual of the Multimedia Program Microscopic Biology" shall give an impression about the extent and the quality of the illustrations and the explanatory text. Each picture corresponds to one page of size 21 x 29 cm.

5. Media Package

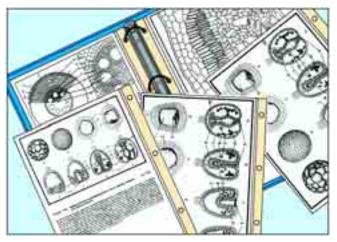
Strictly adapted and corresponding with the manual, the microscope slides and the photomicrographs, the media package comprises the following parts, assorted in proof plastic files with ring mechanism:

- Overhead Transparencies of the Drawings. The complete set of 175 pictures, printed on best, hard-wearing support foil, size 21 x 29 cm. Suitable for daylight-projection in classroom.
 Details of the drawing can be colored by the teacher while projecting. He may explain the structures marked with numbers or write on the transparencies using a felt-tipped pen.
- Sketch- and Work Sheets of the Drawings. The complete set of 175 pictures, printed on strong paper, size 21 x 29 cm. Suitable for taking photocopies for all students. They serve to facilitate seeing his way through the prepared microscope slides and finding the detail important in the lesson. They start processes of learning and understanding by comparing microscope slides with the diagrammatic drawings, thus to identify and label the details relevant in the lesson. They allow completing or coloring the drawings according to own
- **Descriptions and Pictures** of the manual pages, each page with text and picture on a separate sheet.

observations, and finally the sheets can be used for tests.

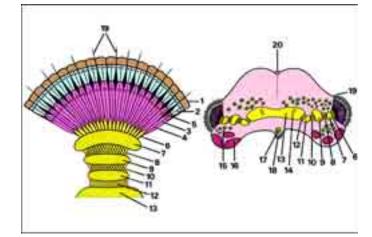
• Transparencies, Sketch- and Work Sheets, and Manual Pages are kept in 175 separate clear-view envelops, therefore the single titles can be taken out of the files separately.

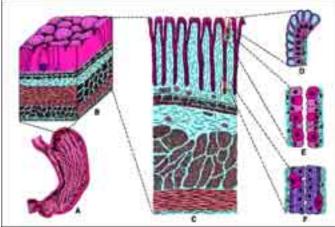
No. M500Media Package, Part A, 25 items, in fileNo. M600Media Package, Part B, 50 items, in fileNo. M700Media Package, Part C, 50 items, in fileNo. M750Media Package, Part D, 50 items, in fileNo. M850Media Packages, Parts A, B, C and D together,
175 items, in four plastic files.



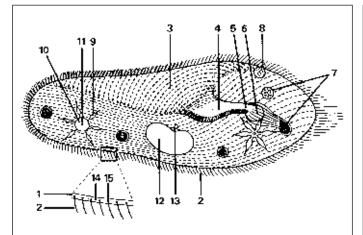
Please note:

The Multimedia-Program with all parts is available in the following languages: **English, German, Spanish, Portuguese, French, Italian.** Please name the requested language when ordering.





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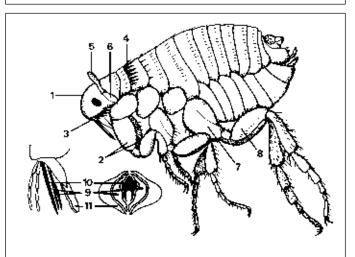
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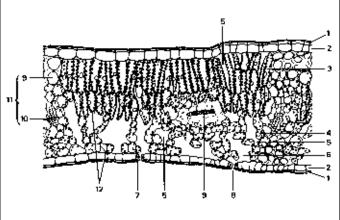
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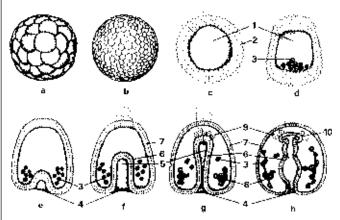
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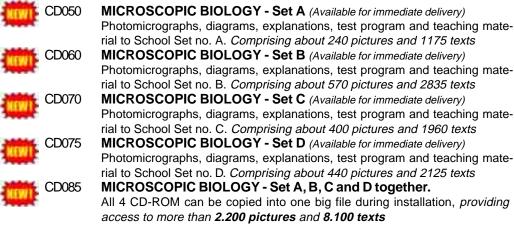
6. NEW AMAZING INTERACTIVE EDUCATIONAL CD-ROM FOR THE SERIES A, B, C AND D

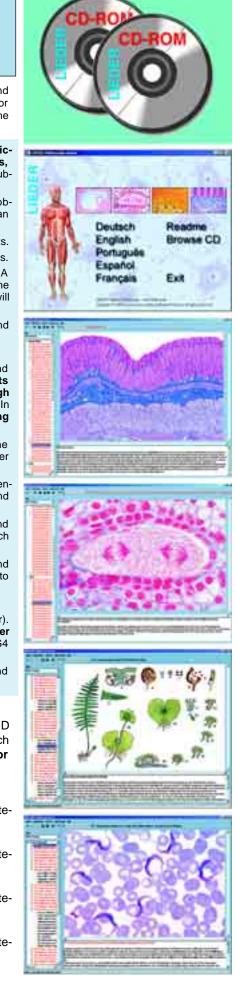
We offer a new range of about 42 CD-ROM for interactive learning and teaching in school and education. All pictures and illustrations are taken from our own stocks to guarantee superior quality. Newly developed programs guarantee easy installation and unproblematic running of the program. Every CD comprises the following topics:

- Comprises a great variety of beautiful diagrams, color photos, tables, anatomical pictures, electron and X-ray photographs, impressive life cycles, human photographs, landscape photographs, scenes, test data and results, necessary for teaching the subjects.
- Comprises all necessary photomicrographs of microscopic slides, which can be observed by five different steps of magnification by using a "MicroScope". The slides can be moved under this microscope and can be observed in all its parts.
- Comprises all necessary drawings matching the pictures, with explanations of all the parts.
- The same number of comprehensive explanatory texts to help understanding the pictures.
- A special **test program** to check the students' knowledge in several levels of difficulty. A variable number of random selected pictures have to be identified. After a successful run the students receive notes about their progress in learning. By repeating the test any success will by revealed by the program.
- A comprehensive **index**, a search function and a comfortable **browser** for all pictures and texts on every CD-ROM.
- All pictures can be shown also in full-screen size, just by pressing the ENTER button.
- Special accompanying material, which enables evaluation of what has been seen, and creative learning is an important part of the program. Drawings, sketch- and worksheets are supplied for many of the pictures on the CD. They are stored in full printing quality (high resolution of 300 to 600 dpi). After printing the drawings may be supplemented or colored. In addition, the worksheets which are allowed to be copied can be used as accompanying material for class tests.
- The novel **demo program** features the functionality to start a self-running demo of the program in sequential or random order. A sophisticated **presentation mode** allows the user to prepare a collection of chosen pictures for an impressive full-screen presentation.
- The complete set of images on this CD can be displayed in thumbnail view for a comprehensive overview of all available material. Thus, the user is also able to compile pictures around topics of special interest for the classroom.
- A comprehensive index. The entire set of material, that is, pictures, supplemental texts and slides, and drawings, are accessible via the main program's dropdown-menu Tools – "Search picture..." or "Select picture".
- The texts will be provided in up to five languages (English, German, French, Spanish and Portuguese) by pre-selection when starting the program. The program surface is adapted to the well-known "WINDOWS™-LOOK".
- All pictures and texts can be printed by the user.
- The CD works with all Windows versions (WINDOWS[™] 95, 98, NT, 2000, XP and higher). The resolution is 960 x 640 or higher for superior quality. Full color representation with over 1 Million colors (depending on the screen). Optionally the CD runs also on PowerMac G4 and higher with WINDOWS[™] emulation.
- The size of the desktop and the windows for texts and pictures can be scaled and adapted to the requirements of the user.

NEW INTERACTIVE EDUCATIONAL CD-ROM FOR THE SERIES A, B, C, D.

Our new amazing CD-ROM for the MULTI-MEDIA PROGRAM SCHOOL-SETS A, B, C, D of **BIOLOGY** comprise all necessary **photomicrographs of microscopic slides**, which can be observed by different magnifications by using a **"MicroScope**". Beautiful **color drawings** matching the slides, with detailed **explanations**.



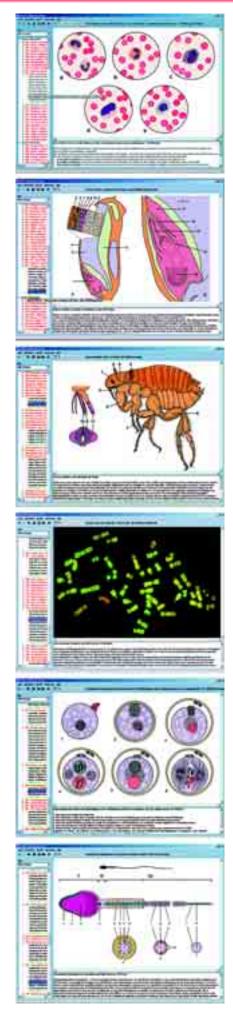


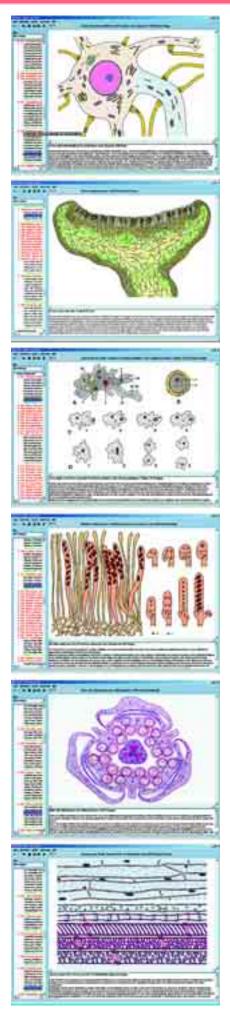
MEDIA PROGRAM

12

The Multimedia Program For Microscopic Biology







13



Selected supplementary prepared microscope slides matching the school series A, B, C, and D. All the slides can be purchased either in complete sets or series or individually. The procurement and processing of the original material for some preparations presents special problems. For this reason, these preparations can often only be manufactured in small quantities entailing a longer delivery period. This applies particularly to the preparations marked with an asterisk * in the catalogue, for which we can not guarantee deliverv

delivery.		
aonro: ji	Zoology	
Pr422e	Vorticella, a common stalked ciliate w.m.	
Pr440f	Mixed protozoa , many different forms are found on this slide	
Po121d	Spongilla, fresh water sponge, t.s. showing choanocytes,	4
	incurrent and excurrent channels	
Po128c	Euspongia , a commercial sponge, macerated skeleton shows horny fibres, w.m.	
Co112f	Hydra with bud, fresh water polyp, w.m.*	
Co2193e	Actinia, (Metridium), sea anemone, t.s. and l.s. through entire	4
	young specimen on one slide	
An124d	Hirudo medicinalis, medicinal leech, t.s. through the body	
	for demonstrating general structures of a leech	
An144e	Lumbricus, earthworm, anterior end including gonads, l.s.	
An143c	Lumbricus, earthworm, clitellum t.s.	
Ro211e	Plumatella, moss animals, w.m. or section	
Cr120c	Small crustaceans, mixed species of fresh water plankton	
Ar111e	Spider, entire young specimen, w.m.	
Ar127e	Spider, sagittal l.s. of abdomen showing the book or trachea	-
	lung	
Mo1515e		
In119d	Formica sp., ant, head and mouth parts w.m.	
ln211b	Melolontha, cockchafer, laminate antenna with sensory	
In215b	organs w.m.	
In2150 In255e	Apis mellifica , honey bee, anterior leg with eye brush w.m. Testis , in t.s. of abdomen of drone of Apis mellifica, honey	
Inzobe	bee	
ln311d	Drosophila, fruit fly, adult male or female w.m.	
Pi160c	Cyprinus, carp, gills t.s.	
Pi162c	Cyprinus , carp, blood smear showing nucleate red corpuscles	
Pi175f	Fish scales composite slide, shows cycloid, ctenoid and	
111101	placoid scales on one slide, w.m.	4
Am234c	Rana, frog, skin with skin glands, vertical l.s.	
Am212c	Rana , frog, lung t.s., simple bag-like lung with large central	
	cavity	
Re213c	Lacerta, lizard, lung t.s. Enlargement of respiratory surface	4
Av111c	Gallus domesticus, chicken, blood smear	
		4
	Bactoria and Cryptogame	

Bacteria and Cryptogams

- Ba161e Spirillum volutans, a very large spirillum, smear *
- Ag117c Chroococcus, large single celled blue-green algae w.m. Ag174d Eudorina, biflagellate cells within gelatinous sheaths forming spherical colonies of thirty-two cells w.m.
- Fu131d Rhizopus or Mucor, mold, conjugation stages and formation of zvgospores w.m.
- Fu161c Penicillium, blue mold, mycelium and conidiophores, w.m.
- Fu227c Boletus edulis, pore fungus, horizontal sec. of pileus showing c.s. of pores
- Li104d Physcia, lichen, t.s. through apothecium showing asci and spores
- Br112d Marchantia, liverwort, cupule with gemmae, l.s. showing vegetative reproduction of liverworts
- Br123d Polytrichum, moss, l.s. of sporophyte with spores
- Br125e Mnium, moss, l.s. of antheridia
- Br126e Mnium. moss. l.s. of archegonia
- Pt113e Lycopodium, club moss, l.s. of young sporophyll showing developing spores

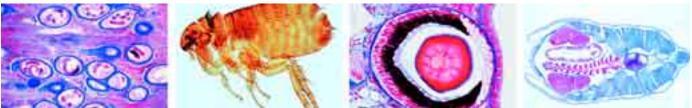
Phanerogams

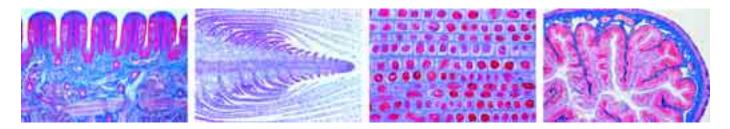
- As133d Fat, t.s. of endosperm of Corylus (hazel) stained for fat
- Lysigenous oil glands, t.s. rind of Citrus fruit As134c
- As136d Acid tannic, t.s. bark of Rosa

- As146d Reserve cellulose, t.s. seed of Phoenix (date)
- As1491b Scale-like stellate hairs, isolated and w.m. from Elaeagnus (olive tree)
- As149b Branched leaf hairs, isolated and w.m. from Verbascum (mullein)
- As1525d Annular and spiral vessels, isolated and w.m.
- As202e Herbaceous and woody roots, two t.s. on one slide for comparison
- As251d Alnus, alder, root nodules with symbiotic actinomycetes (Streptomyces alni) t.s.
- As255d Fagus, beech, root with ectotrophic mycorrhiza, t.s.
- As256d Neottia nidus avis. orchid. root with endotrophic mycorrhiza. IS
- As259c Dendrobium, orchid, aerial root with velamen t.s.
- As307e Herbaceous and woody stems, two t.s. on one slide for comparison
- As314c Juncus, bulrush, stem with internal stellate cells 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
- As3772e Fagus, beech, three sections of wood: t.s., r.l.s., t.l.s.
- As320c Acorus calamus, sweet flag, rhizome t.s. showing storage of starch
- As4112c Iris, leaf epidermis w.m. showing stomata in rows
- As412c Zea mays, corn, monocot gramineous leaf t.s.
- As4567c Ammophila, marram grass, xerophytic leaf t.s.
- As459c Ficus elastica, India rubber plant, leaf with cystoliths t.s.
- As465d Utricularia, bladderwort, w.m. of bladder
- As470d Nepenthes, pitcher plant, t.s. of pitcher with digestive glands
- As473d Helleborus, t.s. of a typical mesophytic dicot leaf for general study, showing large cellular structures
- As451c Fagus, beech, t.s. of leaf bud showing developing leaves, meristematic tissue, midrib
- As501e Monocot and dicot flower buds t.s. on same slide for comparison of floral diagrams
- As605d Taraxacum, dandelion, t.s. of composite flower with tubular florets and ligulate florets
- As606d Papaver, poppy, t.s. of flower shows parietal placentation
- As613d Solanum tuberosum, potato, t.s. flower bud for floral diagram
- Lycopersicum, tomato, young berry type fruit t.s. As631d
- As638d Phaseolus, bean, t.s. of pod showing pericarp and seed
- As619d Capsella bursa pastoris, shepherd's purse, l.s. of ovule with embryos in situ for general study
- As630c Mixed pollen types, showing various forms of many different species
- Gy125c Pinus, pine, older stem with annual rings, resin ducts t.s.
- Gy135f Pinus, ovule l.s. showing archegonia,
- Gy140e Pinus, mature embryo with endosperm t.s.

Please note:

The Multimedia-Program with all parts is available in the following languages: English, German, Spanish, Portuguese, French, Italian. Please name the requested language when ordering. If not otherwise stated, we will ship the English version.





Histology and Human Science

- Ma118d Cuboidal epithelium, in sec. of kidney papilla
- Ma127d **Mucous tissue**, t.s. of navel string (umbilical cord)
- Ma131d **Yellow elastic cartilage,** section specially stained for elastic fibres
- Ma138e **Bone development**, intracartilaginous ossification in foetal finger or toe, l.s.
- Ma214d **Trachea** of cat or rabbit, t.s. with ciliated epithelium, cartilage etc.
- Ma255e **Pituitary gland (hypophysis)**, sag. l.s. of complete organ from cow or pig showing adeno- and neurohypophysis
- Ma311d **Tooth** human, t.s. of crown
- Ma316e **Tooth development**, medium stage l.s.
- Ma337c Duodenum of cat or dog, t.s. showing Brunner's glands
- Ma341d Vermiform appendix, human t.s.
- Ho4368e Uterus, human, t.s. for general structure Ho440e Placenta, human t.s. with chorion and blood vess
- Ho440e Placenta, human t.s. with chorion and blood vessels Ma434d Ovary, sec. selected to show Corpus luteum
- Ma636d Human scalp, horizontal sec. shows t.s. of hair follicles

Cytology and Genetics, Embryology

- Ma101d Simple animal cells in sec. of salamander liver showing nuclei, cell membranes and cytoplasm. For general study of the animal cell
- As1155g **Mitosis**, squash preparation from Allium root tip, shows intact mitotic stages, Feulgen stain *
- As115d **Mitosis,** t.s. from Allium root tips showing all stages of plant mitosis in polar view
- As119g **Mitochondria**, thin I.s. of Allium root tips specially fixed and stained to show the mitochondria clearly
- Ma1045f Barr bodies (human sex chromatin) in smear from female squamous epithelium *
- Ma512f Cerebral cortex, t.s. stained by Golgi's silver method to show the pyramidal cells
- Ma515f Cerebellum, t.s. stained by Golgi's silver method to show the Purkinje cells
- Ma528f Spinal cord of cat, t.s. silvered for nerve cells and fibres
- Ma552h **Motor nerve endings**, muscle stained with gold chloride showing the motor end plates *
- As526f Lilium, anther t.s., microspore mother cells in tetrad stage As530e Lilium, I.s. through pistil and stigma with pollen and pollen
- tubes
- Em718f Chicken, 72 hour, t.s. in region of heart and eyes
- Ma445f **Embryo of mouse**, sagittal I.s. of entire specimen showing all organs in situ

Parasites and Pests

- Ba112d Staphylococcus aureus, pus organism, smear from culture
- Ba131d Mycobacterium tuberculosis, smear from culture
- Ba136d Corynebacterium diphtheriae, smear from culture
- Ba145d Salmonella paratyphi, paratyphoid fever, smear
- Ba149d Shigella dysenteriae, causes bacillary dysentery, smear Pr311f Plasmodium falciparum, malignant tertian malaria of man, blood smear with typical ring stages
- Pr330e Nosema apis, honey bee dysentery, sec. of diseased intestine Ar1515e Varroa, parasitic mite of bees w.m.
- Ne131d Ascaris lumbricoides, roundworm, ova in faeces w.m.
- Ne135f Enterobius vermicularis (Oxyuris), pin worm, w.m. of an adult specimen
- Ne170g Mixed ova in faecal material. Slide containing eggs of par-

asitic worms of different species i.e. Ascaris, Ancylostoma, Trichuris, Taenia, Enterobius, Schistosoma *

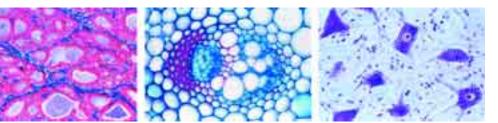
- Py324i **Taenia pisiformis,** tapeworm, w.m. of scolex with four suckers and hooklets *
- Py3272t **Dipylidium caninum**, tapeworm, w.m. of scolex with suckers and rostellum, and immature proglottids *
- Py337f Echinococcus granulosus, dog tapeworm (also harmful to human), cyst wall and scolices t.s.
- In125f Anopheles, head and mouth parts of female w.m.
- In124f Anopheles, malaria mosquito, head and mouth parts of male w.m.
- In325f Pediculus humanus, louse, adult male or female w.m.

Ecology and Environment, Pests in Agriculture

- 4542e Putrefactive bacteria (Spirillum) from sludge poor in oxygen, smear
- Ag1176c **Microcystis,** blue-green algae, irregular colonies growing in eutrophicated water, w.m.
- 4555d Rotifers, Rotatoria, small animals from putrid water
- 4559d **Skin of fish**, injured by water highly polluted with chemicals,
- 4560d **Skin ulcer** of an amphibian, t.s. caused by environmental influences
- 4586c Constituents of humus soil, strewn slide
- 4598b Asbestos powder (cancerogenous), strewn slide
- In132e Gipsy, Lymantria, mouth parts of larva w.m.
- In339c Plant lice, Aphidae sp., w.m. of several specimens
- 7502d **Potato black scab**, Synchytrium endobioticum, infected tissue 7503d **Downy mildew of grapes**, Plasmopara viticola, infected leaf,
- **Downy mildew of grapes,** Plasmopara viticola, infected leaf, t.s.
- 7509d **Grape mildew**, Uncinula necator (Oidium Tuckeri), t.s.
- 7508d **Rose mildew,** Erysiphe pannosa, infected leaf with conidia t.s.
- 7510d **Gooseberry mildew,** Sphaerotheca mors uvae, perithecia on diseased fruit, t.s.
- 7512c **Monilia**, Sclerotinia fructigena, diseased fruit with conidia t.s.
- Fu211d **Cornsmut**, Ustilago zeae, t.s. of pustule with spores

Test Plates, for testing the resolution of microscopes.

- DTS01 **Test Diatomeae, Pleurosigma angulatum**, for larger magnifications, strewn slides of cleared material
- DTS02 **Test Diatomeae, Surirella gemma**, for lower magnifications, strewn slides of cleared material
- DT5 Diatomeae Test Plate with 5 forms, version 1 *Contents:* Triceratium favus, Navicula Iyra, Stauroneis phoenicenteron, Pleurosigma angulatum, Surirella gemma. DT5A Diatomeae Test Plate with 5 forms, version 2
- DT5A **Diatomeae Test Plate with 5 forms**, version 2 *Contents:* Pinnularia opulenta, Gyrosigma balticum, Pleurosigma angulatum, Surirella gemma, Nitzschia obtusa.
- DK05 Diatomeae Circular Preparation with 5 forms. Beautiful forms, individually selected and arranged in a circle. FK05 Foraminifera Circular Preparation with 5 forms. Beautiful
- FK05 Foraminifera Circular Preparation with 5 forms. Beautiful forms, individually selected and arranged in a circle.
- RK05 **Radiolaria Circular Preparation with 5 forms**. Beautiful forms, individually selected and arranged in a circle.



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