Ward's Microscope Slides Slide Stain Guide

| What are you looking for/at? | Commonly used stain | Examples of what you see | | | |
|-----------------------------------|--|---|--------|--|--|
| General animal tissue | H & E (Hematoxylin & Eosin) | Blue nuclei (H) Pink cytoplasm and connective tissue (E) | 0.0. | | |
| General plant tissue | Quadruple stain: Safranin O Fast Green Crystal Violet Orange G | Red nuclei, chromosome, lignified cell walls Green cellulose cell walls Purple starch grains Yellow acidophillic cytoplasm | | | |
| Dramatic cell and tissue features | Mallory triple | Blue cartilage and collagen Red nucleus Orange cytoplasmic elements | la s | | |
| Dramatic cell and tissue features | Masson | Green collagen and mucus Red nucleus Brown-Black chromatin | 005 | | |
| Mitotic figures | Iron Hematoxylin | Black/Blue chromosomes cytoskeleton (tubulin), and mitochondria | (F.J.) | | |
| Fats and lipids | Osmium tetroxide or Sudan Black | Black lipid droplets, cell membranes, myelin | | | |
| Mucus/complex polysaccharides | PAS (Periodic Acid/Schiff) in goblet cells | Fuschia/Red secretory granules | - Cal | | |
| Neurofibrilis | Silver (multiple methods) | Black neuronal cytoskeleton | | | |
| Elastic connective tissue | Orcein or Verhoeff Containing fibers | Brown-Black elastin | R.C. | | |



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Ward's Microscope Slides Preparation and Slide Stain Guide

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| ic Actets Carmine Chromosome banding - reddish brown. Arimat Constructive tissue - orange. Flant: anti Anti-fyrotein Immunolistacchemical labeling of specific protein - bown. Orange-G Antimat Constructive tissue - parage. ao Acto Orcein Chromosome banding - reddish brown. Disc. Orange-G Antimat Constructive tissue - broght roce. ail birth Strip Birtichowich Immunolistacchemical basic synthesis cell - red. Disc. Orange-G Antimat Constructive tissue - broght roce. bil Birth Strip Carmine Nuclein and thirth synthesis cell - red. Disc. Disc. Orange-G Antimat Constructive - broght roce. c Carmine Nuclein and thirth synthesis cell - red. Disc. | aD | Azure b | 5 | | | |
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| bit Ag Biebrich & Fast Green Fair body in interphase cell - red. cv Grey/ Wolet Nissi substance - purple. d Dyar Goly substance - biack siver method d Differential Spore Spores - green/blue; vegetative bodies - red. g Differential Spore Spores - green/blue; vegetative bodies - red. g Differential Spore Spores - green/blue; vegetative bodies - red. g Differential Spore Spores - green/blue; vegetative bodies - red. g Differential Spore Spores - green/blue; vegetative bodies - red. g Differential Spore Spores - green/blue; vegetative bodies - red. g Fast Green Nuclei (DNA of chromatin - red; bacteria - red. g Gierns Nuclei (DNA of chromatin - red; bacteria - red. g Gierns Nuclei (DNA of chromatin - red; bacteria - red. g Gierns Nuclei (DNA of chromatin - red; bacteria - red. g Gierns Nuclei (DNA of chromatin - red; bacteria - red. g Gierns Nuclei (DNA of chromatin - red; bacteria - red. g Silver impreg. Nuclei of leucocytes - mediation Volations - green. g Silver impreg. Nuclei of leucocytes - mediation Volations - green. g Silver impreg. Nuclei of leucocytes - mediation Volations - devide Volations - red; bacteria - red. g Silver impreg. Nuclei of leucocytes - mediation Volations - red; bacteria - red. g Silver impreg. Nuclei of leucocytes - redioti NVIght's Stair (red) g Silver impreg. g Silver impreg. | bc | Best's Carmine | 5 | | | |
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| cv Creg/ Wolet Nisd substance - purple. Schiff Reaction counter stain. Glycogen, starch, cellulose - red. daf DaFano Golgi substance - black. Subier method Source - starch, cellulose - red. daf Differential Spore Spores - green/blue; vegetative bodies - red. Spores - green/blue; vegetative bodies - red. e Eosin General optoplasmic structure - various shades of red. Spores - green/blue; vegetative bodies - red. fg Feudgen Reaction Nuckei of planmic structure - various shades of red. Spores - green/blue; vegetative bodies - red. fg Feudsin Nuckei of planmic structure - various shades of red. Spores - green/blue; vegetative bodies - red. fg Feudsin Nuckei of planmic and animal cells - red; bodiet. Spores - green/blue; vegetative bodiet. g(i) Gram's Negative reaction - cells red. Spores - green/blue; vegetative bodiet. g(i) Gram's Both coor staining reactions evident. Spores - green/blue; vegetative starcet. g(i) Gram's Nuckei of lauxones - deep blue; Si Silver in preg. Nuckei: cheurofibrils, axis g(i) Gram's pink, nuckeir structure - red or orange. the matoxylin Nuckeir substances - deep blue; h Hematoxylin Nuckeir substances - deep blue; the matoxylin Sporabla (bella (buc | - | | | · · | | 5 |
| d Dyar Cell walls - red; cytoplasm - blue; Golg substance - black; silver method g Quadruple Part tissue: sfrain 0 datas subdic dromosomes, stains cytoplasm and cellulose cell walls green. Crystal Violet stains stracture - various shades of red. f Feulgen Reaction Nucle; DNA of chromatin - redidish violet. rs Robinow/s Nuclear matter - pink; cytoplasm and cellulose cell walls green. Crystal Violet stains stracture - various shades of red. f Feulgen Reaction Nucle; DNA of chromatin - redidish violet. rs Robinow/s Nuclear matter - pink; cytoplasm and cellulose cell walls - green. f Futsion Nuclei of plant and annibac cells - red. s Saffron Context restaine - pink; cytoplasm - blue. g(i-Gram's Positive reaction - cells violet. s Saffron Context restaine - pink; cytoplasm - blue. g(i-Gram's Repaire reaction - cells violet. s Saffron Context restaine - pink; cytoplasm - blue; chromatin - red. g(i-Gram's Repaire reaction - cells violet. s Silver impreg. Cicial, Golgi cell walls - red. g(i-Gram's Repaire reaction - cells violet. s Silver impreg. Silver reaction - cells red. g(i-Gram's Repaire reaction - cells violet. s Silver reaction - cells red. s g(i-Gram's) Reart Beart Sitre - redidis parple s | cv | Cresyl Violet | Nissl substance – purple. | pus | | |
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| ds Differential Spore Spores - green/blue; vegetative bodies - red. Spores - green/blue; vegetative bodies - red. Spores - green/blue; vegetative bodies - red. e Existing General cytoplasmic structure - various shades of red. Spores - green/blue; vegetative bodies - red. fg Fat Green Animal: Collagen and mucus - green. Robinow's Nuclei ruber - pink; cytoplasm blue. fg Gram's Nuclei of plant and animal cells - red; bacteria - red. Spores - green/blue; vegetative bodies - fact. g(+) Gram's Negative reaction - cells red. Spores - red. g(+) Gram's Negative reaction - cells red. Spores - red. g(+) Gram's Both color staining reactions evident. Spores - red. g(+) Gram's Both color staining reactions evident. Spores - red. g(+) Gram's Both color staining reactions evident. Spores - red. g(+) Gram's Nuclear substances - deep blue. Spores - red. h & Hematoxylin Nuclear substances - deep blue. Sudan Red Fat tissue - red. h & Hematoxylin Nuclear substances - deep blue. Woelke's Myelin Myelin sheat - blue; background - clear; h & H | daf | | | 45 | Quudiupic | |
| cbs Example Differential System Spate - green Volue Vegetality 2006-5 - red. cf Feudgen Reaction Nuckel, DNA of chromatin - reddish violet. Third State - pink: cytoplasm - blue. f Fat Green Animal Collagen and mucus - green. Plant Cytoplasm and cell walls yellow g(+) Gram's Positive reaction - cells red. Staffain O Nuclear matter - pink: cytoplasm - blue. g(+) Gram's Positive reaction - cells red. Staffain O Nuclear Matter - pink: cytoplasm - blue. g(+) Gram's Positive reaction - cells red. Staffain O Nuclear Matter - pink: cytoplasm - blue. g(+) Gram's Both color staining reactions evident. Staffain O Nuclear Matter - pink: cytoplasm - black; neurofibrits, axis g(+) Gram's Both color staining reactions evident. Staffain O Staffain O Staffain O g(+) Gram's Both color staffing reactions evident. Staffain O Nuclear Matter - pink: staffain evident. g(+) Gram's Not color staffing reactions evident. Staffain O Nuclear Matter - pink. g(+) Gram's Dot color staffing reactions evident. Nuclear Matter - pink. g(-) Germ's | | silver method | - | | | |
| e Existing and provide structure - various shades of red. Statis Bucklophile, Cycplasm and Delivation Spectra - Spe | ds | Differential Spore | Spores – green/blue; vegetative bodies – red. | | | |
| f Feulgen Reaction Nuclei, DNA of chromatin -reddish violet. rs Robinovs Nuclei armatter - prink cytoplasm - blue. fg Fast Green Animal Collagen and mucus - green. Saffron Connective tissue - yellow. fs Fuchsin Nuclei of plant and animal cells - red; bacteria - red. Saffron Connective tissue - yellow. g(i) Gram's Nuclei of plant and animal cells - red; bacteria - red. Saffron Nuclei, chromosomes, lignified and cutinized g(i) Gram's Nodei of leucocytes - red/bits party reaction - cells violet. Saffron Nuclei, chromosomes, lignified and cutinized g(i) Gram's Nuclei of plant and animal cells - red; bacteria - red. Saffrain O Nuclei, chromosomes, lignified and cutinized g(i) Gram's Nuclei of plant and animal cells - red; bacteria - red. Saffrain O Nuclei, chromosomes, lignified and cutinized g(ii) Gram's Nuclei of plant and animal cells - red; bacteria Saffrain O Nuclei, chromosomes, lignified and cutinized g(ii) Gram's Nuclei - blacy contrains - black Siles Time System Shows Kiney Junes h Hermatoxylin Nuclei - stop system sector Saffroin Shows Kiney Junes Shows Kine | e | Eosin | General cytoplasmic structure – various shades of red. | | | |
| fg Fast Green Animal: Collagen and mucus - green. s Saffarin Connective tissue - yellow. fs Fuchsin Nudei of plant and animal cellus - red; bacteria - red; Sudan Black Fat bodies - black; cell walls - pink. g(+) Gram's Nodei of feucocytes. Sudan Black Fat bodies - black; cell walls - pink. g(+) Gram's Nodei of feucocytes. Sudan Black Fat bodies - black; cell walls - pink. g(+) Gram's Both color staining reactions evident. (Cajal, Golg) oplinders - brown to black, neurofibrils, axis g(+) Gram's Both color staining reactions evident. (Cajal, Golg) oplinders - brown to black, neurofibrils, axis g(+) Gram's Both color staining reactions evident. sis Silver impreg. Neurons - yellow to black, neurofibrils, axis g(+) Gram's Nuclear substances - deep blue. t Triosin General cytoplasmic structure - red or orange. h& Hematoxylin Cytoplasm of mynhoportes and black black; preves and nerve violet to reddish purple. W Verhoeff Eastic fibers - blue black; nuclei - blue. Nuclei - subscy black; black; preves and nerve violet to purple. h Hematoxylin, Nuclear substa | f | Feulgen Reaction | Nuclei, DNA of chromatin – reddish violet. | rs | Robinow's | 5 |
| First Plant Cytoplasm and cellulose cell walls - green. sb Sudan Black Fat bodies - black; cell walls - pink. g(+) Gram's Positive reaction - cells violet. Safrain O Nuclei, dhromosomes, lignified and cutinized g(+) Gram's Negative reaction - cells violet. Safrain O Nuclei, dhromosomes, lignified and cutinized g(+) Gram's Notel color staining reactions vident. Safrain O Nuclei, dhromosomes, jugnified and cutinized g(+) Gram's Nuclei of leucocytes - medials purple: rest of leucocytes - minitor to Wight's stain; cytop-leucocytes - minitor wight's stain; cytop-leucocytes - minitor wight's matched page: plue. Silver imes ylue Sudan Red Fat tissue - red. h Hernatoxylin Nuclear substances - deep blue. t Triosin General cytoplasmic structure - red or orange. h& Hernatoxylin Nuclear substances - deep blue. tb Toluine Blue V lerhoeff Elastic fibers - blue to black; nuclei - blue to brownish-black. h& Hernatoxylin, Cytoplasm of imphocytes and lastocytes - violet to page: red. V Verhoeff Elastic fibers - blue; black, nuclei - blue; totoplasm - blue; black, nuclei - blue; totoplasm - blue; black, black; centroles, muscle granules - violet to purple; ylamolas - cuticar, pagralis - orange; end; ylamb = - eddish lila; | fg | Fast Green | Animal: Collagen and mucus – green. | | | |
| fs Fuchsin Nuclei of plant and animal cells - red; bacteria - red. g(+) Gram's Positive reaction - cells violet. g(+) Gram's Nouclei, chromosomes, lignified and cutinized cell walls - red. g(+) Gram's Nouclei of leuccoytes - red/dish purple; rest of leuccoytes - similar to Winght's stain; cyto-pasmodia - blue; chromatin - red. si Silver impreg. Neurons - yellow to black; neurolibrils, axis h Hematoxylin Nuclei of succoytes - red/dish purple; rest of leuccoytes - similar to Winght's stain; cyto-pasmodia - blue; chromatin - red. si Silver impreg. Soudan Red Fat tissue - red. h & Hematoxylin General cytoplasmic structures - shades of disk cytes - shades of red; connective tissue - yellow to black; neureid - deep blue; to Tropian Blue Wuclei - blue; black, nuclei - blue to black, nuclei - blue; black, reuves and nerve nethod w Woelke's Myelin Muclei - folgogram - blue, black, nuclei - blue; potyplasm, nuscle, myelin - hlue; black, nuclei - blue; black, nuclei - blace, black, black/ground - gray to rose. w Woelke's Myelin h Hematoxylin Nuclei - site; conneci | | | Plant: Cytoplasm and cellulose cell walls – green. | | Sudan Black | , |
| g(i) Gram's Positive reaction - cells violet. g(i) Gram's Begative reaction - cells red. g(i) Gram's Begative reaction - cells red. gs Giemsa Nuclei of leucocytes - reddish puple; rest of rest or orange; rest of rypansitic structure - red or orange; rest of rest orange; rest or rypansitic structure; rest or orange; rest or rypansitic structure - redish puple; rypansitic structure; rest or rest orange; rest rypansitic structure; rest or rest orange | 1 | Fuchsin | Nuclei of plant and animal cells – red; bacteria – red. | | | · · |
| gir//-) Gram's Boh color staining reactions evident. Si Suiver Impreg. Neuroins - yeinw to black neuroints, aus gs Giemsa Nuclei of leucocytes - reddish purple; rest of leucocytes - reddish purple; reddish violet. si Suban Red Fat issue - red. h & Hematoxylin Nuclear substances - deep blue; si Suban Red Fat issue - red. Triosin h & Hematoxylin Nuclear substances - deep blue; to Trypan Blue Vital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by phagocytotic cells - blue; to Trypan Blue Wital dye engulied by | - | | | | | |
| gift A Gram's Both color staining reactions evident. (Cajal, Gaig) cylinders - brown to black; neuroglia - black. gs Giemsa Nuclei of leucocytes - redits purple; rest of leucocytes - redits purple; rest of leucocytes - redits purple; redits use - red. Silver Line System Shows Kinety lines. h Hematoxylin General cytoplasmic structures - shades of & Eosin pink muclear material - deep blue; Silver Line System < | - | | 5 | si | Silver impreg. | Neurons – yellow to black; neurofibrils, axis |
| bit leucoxytes - similar to Wright's stain; cyto- plasmodia - blue; chromatin - red. sister - med - Sudan Red Fattissue - red. h & Hematoxylin Nucdear substances - deep blue. t Triosin General cytoplasmic structure - red or orange. h & Hematoxylin Nucdear substances - deep blue; & Eosin mine ruclear material - deep blue; & Eosin thematoxylin Cytoplasmic structure - red or orange. h & Hematoxylin, Cytoplasmic structure - red or orange. Vital dye engulifed by phagocytotic cells - blue. h & Hematoxylin, Cytoplasmic structure - red or orange. Vital dye engulifed by phagocytotic cells - blue. h & Hematoxylin, Cytoplasmic structure - red or orange. Vital dye engulifed by phagocytotic cells - blue. hae Hematoxylin, Cytoplasmic structure - red or orange. Vital dye engulifed by phagocytotic cells - blue. hae Hematoxylin, Cytoplasm of lymphocytes and blastocytes - nuclei - deep blue; mast cell granules - orange red; cytoplasm blue, Wight's structure - red or orange. hi Holmes silver Axis cylinders - blue to black; chromosomes, mito- blue-black to black. Wight's structure - red orange. Wight's structure - red, redsh blac; cytoplasm - pale pink. Eosino-philes: nuclei - dark pupie; cytoplasm. blue, Platelets: granules - carlet bue; to purple; cytoplasm. matod Mason <t< td=""><td>1 -</td><td></td><td>5</td><td></td><td>(Cajal, Golgi)</td><td>cylinders – brown to black; neuroglia – black.</td></t<> | 1 - | | 5 | | (Cajal, Golgi) | cylinders – brown to black; neuroglia – black. |
| plasmodia - blue; chromatin - red.sudural redFait (Suber - Red.hHematoxylinNuclear substances - deep blue.tTriosinGeneral cytoplasmic structure - red or orange.h & &BarnotoxylinCeneral cytoplasmic structures - shades of pink; nuclear material - deep blue; & EcosintTriosinVital dye engulfed by phagocytotic cells - blue.h & &HematoxylinNuclear substances - deep blue; & TriosinVital dye engulfed by phagocytotic cells - blue.th & HematoxylinNuclear substances - deep blue; & TriosinVerhoeffElastic fibers - blue to black; nuclei - blue to brownish-black.h & HematoxylinCytoplasm of lymphocytes and blastocytes - violet to reddish purple.Nuclei - blue; othack; nuclei - adep blue; mast cell granules - wielt to reddish purple.Weelke's MyelinhoHolmes silver methodAxis ofinders - blue to black; nerves and nerve methodShades of red; connective tissue - yellow.Weelke's Myelin - blue-black to black.Weelke's MyelinhiIronNucleir substances, chromosomes, mito- blue-black to black.Shades of red; connective tissue - yellow.Nuclei - blue; othasmic structure - red to purple; othodia, centroles, mucle, and to purple; cytoplasm - blue.fibLuxol Fast Blue Malone vipleMalony tripleNuclei - ned; mucle, and connective tissue - green.Key to Mount Preparation Technique (WM) =maMalony triple Malory tripleNuclei - red; nuclei - red; zymogen granules - purple; cytoplasmic anthyaline substance - blue; dense cellular tissue - pink.Congent and to purple; cytoplasm | gs | Giemsa | , , , | sls | Silver Line System | Shows Kinety lines. |
| h Hematoxylin Nuclear substances - deep blue. Intisin General cytoplasmic structures - shades of & trait dy englifed by phagocytotic cells - blue. h & t Hematoxylin General cytoplasmic structures - shades of & trait dy englifed by phagocytotic cells - blue. h & t Hematoxylin Nuclear substances - deep blue; Wital dy englifed by phagocytotic cells - blue to black, nuclei - deep blue; hae Hematoxylin, Cytoplasmic structure - red or orange. hae Hematoxylin, Cytoplasmic structure - red or orange. hae Hematoxylin, Cytoplasm of lymphocytes and blastocytes - violet to reddish purple. ho Holmes silver Axis (pinders - blue to black, nerves and nerve method Males of red; connective tissue - yellow. hys Hematoxylin, Nuclei - blue; cytoplasm, muscle, myelin - phlex, black solfactors - blue; dess of red; connective tissue - yellow. With dy englites - nuclei - dark purple; cytoplasm - blue. h Iron Nuclear substances, chromosomes, mito- blue substances - purple; cytoplasm, muscle, myelin - blue granules - purple; cytoplasm - blue. Basophiles: fib Luxol Fast Blue Methylein - black, muclear - red; muscle and some cytoplasmic elements - red to manye; collagen, mucus, and connective tissue - green. Key to Mount Preparation Technique | | | | sr | Sudan Red | Fat tissue – red. |
| h & e Hematoxylin General cytoplasmic structures – shades of & Eosin Prival Buce Viral by engline U by Dragocytouc cells – bide. h & t Hematoxylin Nuclear material – deep blue. Mucin – redidsh violet. Mucin – redidsh violet. h & t Hematoxylin Nuclear substances – deep blue; Wucin – redidsh violet. Basic fibers – blue to black; nuclei – blue; to black; nuclei – blue; to black; nuclei – deep blue; hae Hematoxylin, Cytoplasm of lymphocytes and blastocytes – Azure II, Eosin blue; nuclei – deep blue; mast cell granules – Wich – redidsh violet. ho Holmes silver Axis cylinders – blue; to black; nerves and nerve Sheath gila cells, nuclei – blue; black; mores and nerve method endings – blac; black; packground – gray to rose. Nuclei – stilstice – plate; structei – blue; Basophiles: hi Iron Nuclear substance, chromosomes, mito- Hematoxylin chondria, centrioles, muscle striations – hloe Holmes silver Meelin – blue, cytoplasmic eedish Nuclear substance, chromosomes, mito- hematoxylin chondria, centrioles, muscle striations – blue.Platekts uplate to black, Nuclear substance, chromosomes, mito- ma Mason Chromatin – brown-black; nuclei – red; | | 1.1 | • | t | Triosin | General cytoplasmic structure – red or orange. |
| & Eosin pink; nuclear material – deep blue; h & t Hematoxylin Nuclear substances – deep blue; k Triosin cytoplasmic structure – red or orange. hae Hematoxylin, Cytoplasm of lymphocytes and blastocytes – hae Hematoxylin, Stoplasm of lymphocytes and blastocytes – ho Holmes silver Axis cylinders – blue to black; nerves and nerve method endings – black; background – gray to rose. hys Hematoxylin, Nuclei – blue; cytoplasm, muscle, myelin – pho Holmes silver Axis cylinders – blue; cytoplasm, muscle, myelin – pho Holmes silver Nuclei – blue; cytoplasm, muscle, myelin – pho Hematoxylin, Nuclei – blue; cytoplasm, muscle, myelin – pho shades of red; connective tissue – yellow. ih Iron Nuclei – stops: notific + mosoomes, mito- Hematoxylin chondria, centrioles, muscle striations – blue-black to black. Myelin – blue-green. mathod Reticulum – black. method method mathod Chromatin – brown-black; nuclei – red; aymogen granules – purple; cytoplasmic elements – red to manue; collagen, mucus, and conne | 1 | • | • | tb | Trypan Blue | Vital dye engulfed by phagocytotic cells – blue. |
| h &t Hematoxylin Nuclear substances - deep blue; & Hematoxylin Cytoplasmic structure - red or orange. hae Hematoxylin, Cytoplasmic structure - red or orange. hae Hematoxylin, Cytoplasmic structure - red or orange. hae Hematoxylin, Cytoplasm of lymphocytes and blastocytes - violet to reddish purple. violet to reddish purple. ho Holmes silver Axis cylinders - blue to black; nuclei - gray to rose. hps Hematoxylin, Nuclear substance, chromosomes, mito- hematoxylin Nuclear substances, chromosomes, mito- hematoxylin Chondria, centrioles, muscle striations - blue-black blue-black ffb Luxol Fast Blue Myelin - blue-green. m Manuel silver Reticulum - black method Chromatin - brown-black; nuclei - red; zymogen granules - purple; cytoplasmic elements - red to mauve; collagen, mucus, and connective tissue - green. mal Mallory triple Nuclei - red; muscle and some cytoplasmic elements - red to range; collagen - dark blue; connective tissue - pink. mal Mallory triple Nuclei - red; muscle and some cytoplasmic elements - red to range; collagen - dark blue; connective tissue - pink. | nae | • | | tlb | Toluidine Blue | Mucin – reddish violet. |
| & Triosin cytoplasmic structure – red or orange. Downstructure – red or orange. hae Hematoxylin, Cytoplasm of lymphocytes and blastocytes – blue; nuclei – deep blue; mast cell granules – violet to reddish purple. ho Holmes silver Axis cylinders – blue to black; nerves and nerve Sheath glial cells, nucleoli of neurons – black. method endings – black; background – gray to rose. Nuclei – blue; cytoplasm, muscle, myelin – hps Hematoxylin, Nuclei – blue; cytoplasm, muscle, myelin – phosine & Saffron shades of red; connective tissue – yellow. ih Iron Nuclear substances, chromosomes, mito- hondria, centrioles, muscle striations – blue-black to black. mothod Mason Chromatin – brown-black; nuclei – red; mas Mason Chromatin – brown-black; nuclei – red; mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. mai Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. mai Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substanc | h&t | | | v | Verhoeff | |
| hae Hematoxylin, Gytoplasm of lymphocytes and blastocytes - hymphocytes and blastocytes - hae Azure II, Eosin blue; nuclei - deep blue; mast cell granules - violet to redish purple. ho Holmes silver Axis cylinders - blue to black; nerves and neve gilal cells, nucleoli of neurons - black. method endings - black background - gray to rose. granules - orange-red; cytoplasm - blue. hps Hematoxylin, Nuclei - blue; cytoplasm, muscle, myelin - hio Hondria, centrioles, muscle striations - blue-black to black. wweine silver fb Luxol Fast Blue Myelin - blue-green. mas Mason Chromatin - brown-black; nuclei - red; zymogen granules - purple; cytoplasmic elements - red to mauve; collagen, mucus, and connective tissue - green. Key to Mount Preparation Technique mal Mallory triple Nucleier and some cytoplasmic elements - red to mauve; collagen, dat hue; connective tissue - green. (SECT) Section mat Mallory triple Nucleier and some cytoplasmic elements - red to mauve; collagen - dark blue; connective tissue - green. (NLS) = Cross Section (SQ) = Squash (SQ) = Squash (SQ) = Squash (VS) = Vertical Sec | liat | • | • | | | |
| Azure II, Eosinblue, nuclei – deep blue; mast cell granules – violet to reddish purple.Siteatingran cells, itudeoi of networds – black.hoHolmes silver methodAxis cylinders – blue to black; nerves and nerve endings – black; background – gray to rose.wrWright'sErythrocytes – yellowish red. Polymorpho- nuclears: nuclei – dark purple; granules – reddish lilac; cytoplasm – pale pink. Eosino-philes: nuclei – blue; granules – orange-red; cytoplasm – blue.hpsHematoxylin, Phloxine & Saffron Nuclei – blue; cytoplasm, muscle, myelin – blue-black to black.methodnucleus – purple to dark blue; granules – violet to purple.ihIronNuclei – substances, chromosomes, mito- blue-black to black.hou eritics, nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green.Key to Mount Preparation Technique (WM) = WholemountmalMallory tripleNuclei – red; muscle and some cytoplasmic elements – red to ranuve; collagen, mucus, and byaline substance – blue; dense cellular tissue – pink.Gran – Longitudinal Section (MLS) = Key to and hyalina Substance – blue, dense cellular tissue – pink.mbMethylene BlueNuclei arstructure, Nissl substance – blue.Siteatin | hae | | , | w | | |
| violet to reddish purple. ho Holmes silver method endings – black background – gray to rose. hps Hematoxylin, Nuclei – blue; cytoplasm, muscle, myelin – Phloxine & Saffron Nuclear substances, chromosomes, mito- chondria, centrioles, muscle striations – blue-black to black. Ifb Luxol Fast Blue Myelin – blue-green. mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. mal Mallory triple Mudei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; dense cellular tissue – pink. mb Methylene Blue Nuclear structure, Nissl substance – blue. | line | | | | | 5 |
| ho Holmes silver method Axis cylinders – blue to black; nerves and nerve endings – black; background – gray to rose. hps Hematoxylin, Phloxine & Saffron shades of red; connective tissue – yellow. ih Iron Nuclear substances, chromosomes, mito- blue-black to black. fb Luxol Fast Blue Manuel silver method Myelin – blue-green. m Manuel silver method Reticulum – black, method mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink. Chomatin – brown-black; nuclei – red; mucus, and connective tissue and hyaline substance – blue; dense cellular tissue – pink. mb Methylene Blue Nuclear structure, Nissl substance – blue. | | | 3 | wr | Wright's | |
| methodendings - black; background - gray to rose.granules - orange-red; cytoplasm - blue.hpsHematoxylin, Phloxine & SaffronNuclei - blue; cytoplasm, muscle, myelin - shades of red; connective tissue - yellow.nucleus - purple to dark blue; granules - dark blue. Lymphocytes: nuclei - dark purple; cytoplasm - blue. Platelets: granules - violet to purple.ihIronNuclear substances, chromosomes, mito- chondria, centrioles, muscle striations - blue-black to black.http://www.setemation.celle.ifbLuxol Fast BlueMyelin - blue-green.Key to Mount Preparation Technique (WM) =mManuel silver methodReticulum - black. celements - red to mauve; collagen, mucus, and connective tissue - green.Key to Mount Preparation Technique (SECT) =malMallory tripleNuclei - red; muscle and some cytoplasmic elements - red to orange; collagen - dark blue; connective tissue and hyaline substance - blue; dense cellular tissue - pink.metian - Longitudinal Section (MLS) =mbMethylene BlueNuclear structure, Nissl substance - blue.For the section | ho | Holmes silver | | | | |
| nps Hernatoxylin, Phloxine & Saffron in locieus – purple to dark blue; granules – dark blue. Lymphocytes: nuclei – dark purple; cytoplasm – blue-black to black. ih Iron Nuclear substances, chromosomes, mito- blue-black to black. ifb Luxol Fast Blue Manuel silver method Myelin – blue-green. mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. Key to Mount Preparation Technique (CS) = Cross Section (RLS) = Radial – Longitudinal Section (RLS) mal Mallory triple Nuclear structure, Nissl substance – blue; dense cellular tissue – pink. Nuclear structure, Nissl substance – blue. | | method | * | _ | | |
| Phloxine & Saffron shades of red; connective tissue – yellow. ih Iron Nuclear substances, chromosomes, mito- Hematoxylin chondria, centrioles, muscle striations – blue-black to black. blue-black to black. fb Luxol Fast Blue Myelin – blue-green. m Manuel silver Reticulum – black. mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. (LS) = mal Mallory triple Nuclear structure, Nissl substance – blue; ellular mb Methylene Blue Nuclear structure, Nissl substance – blue. blue; connective tissue – blue. | hps | Hematoxylin, | Nuclei – blue; cytoplasm, muscle, myelin – | Basop | hiles: | nucleus – nurnle to dark blue; granules – dark blue |
| ih Iron Nuclear substances, chromosomes, mito- blue. Platelets: granules – violet to purple. Hematoxylin chondria, centrioles, muscle striations – blue-black to black. Ifb Luxol Fast Blue Myelin – blue-green. Key to Mount Preparation Technique m Manuel silver Reticulum – black. (WM) = method Chromatin – brown-black; nuclei – red; SECT) = Smear mas Mason Chromatin – brown-black; nuclei – red; (SECT) = Smear (CS) = Cross Section (CS) = Cross Section (RLS) = Radial – Longitudinal Section (RLS) = Longitudinal Section (MLS) = Median – Longitudinal Section (MLS) = Median – Longitudinal Section (MLS) = Median – Longitudinal Section (SQ) = Squash (VS) = Vertical Section (SQ) = Vertical Section | | Phloxine & Saffron | shades of red; connective tissue – yellow. | | | |
| blue-black to black. Ifb Luxol Fast Blue Myelin – blue-green. m Manuel silver method Reticulum – black. mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. Key to Mount Preparation Technique (WM) = Wholemount (SECT) = Section (CS) = Cross Section (RLS) = Radial – Longitudinal Section (RLS) = Radial – Longitudinal Section (ILS) = Longitudinal Section (MLS) = Median – Longitudinal Section (MLS) = Median – Longitudinal Section (MLS) = Median – Longitudinal Section (SQ) = Squash (VS) = Vertical Section | ih | Iron | Nuclear substances, chromosomes, mito- | | | |
| Ifb Luxol Fast Blue Myelin – blue-green. m Manuel silver method Reticulum – black. mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. (Key to Mount Preparation Technique mal Mallory triple Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. (CS) = Section (RLS) = Radial – Longitudinal Section (RLS) = Longitudinal Section (MLS) = Median – Longitudinal Section (MLS) (MLS) = Median – Longitudinal Section (MLS) = Squash (VS) = Squash (VS) = | | Hematoxylin | chondria, centrioles, muscle striations – | | | |
| m Manuel silver method mythin bite green. m Manuel silver method Reticulum – black. mas Mason Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. (WM) = Wholemount mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink. (WM) = Wholemount mb Methylene Blue Nuclear structure, Nissl substance – blue. Wholemount | | | blue-black to black. | | | |
| maintend sincer National Sincer method Chromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. (SM) = Smear mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink. (SM) = Smear mb Methylene Blue Nuclear structure, Nissl substance – blue. (SM) = Smear | lfb | | , 3 | | · · · · · · · · · · · · · · · · · · · | • |
| InterformmasMasonChromatin – brown-black; nuclei – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green.(SECT)=SectionmalMallory tripleNuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink.SECT)=SectionmbMethylene BlueNuclear structure, Nissl substance – blue.(SECT)=Section(CS)=Cross Section(RLS)=Radial – Longitudinal Section(MLS)=Median – Longitudinal Section(SQ)=Squash(VS)=Vertical Section | m | | Reticulum – black. | | • | |
| mas Mason Chromatin – Drown-black futclet – red; zymogen granules – purple; cytoplasmic elements – red to mauve; collagen, mucus, and connective tissue – green. (CS) = Cross Section mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink. = Cross Section mb Methylene Blue Nuclear structure, Nissl substance – blue. (CS) = Cross Section (VS) = Nadial – Longitudinal Section (LS) = Longitudinal Section (VS) = Median – Longitudinal Section (MLS) = Median – Longitudinal Section | | | | | • | |
| mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – some elements – s | mas | Mason | , , | | • | |
| mal Mallory triple Muclei – red; muscle and some cytoplasmic elements – red; muscle and some cytoplasmic elements – some cytoplasmic | | | | | | |
| mal Mallory triple Nuclei – red; muscle and some cytoplasmic elements – red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink. (LS) = Longitudinal Section mb Methylene Blue Nuclear structure, Nissl substance – blue. (MLS) = Median – Longitudinal Section | | | | | · · · | - |
| red to orange; collagen – dark blue; connective tissue and hyaline substance – blue; dense cellular tissue – pink. mb Methylene Blue Nuclear structure, Nissl substance – blue. | mal | Mallon | 5 | (L | | |
| and hyaline substance – blue; dense cellular tissue – pink.(SQ) = Squash Vertical SectionmbMethylene BlueNuclear structure, Nissl substance – blue. | Indi | mailory triple | | | • | 5 |
| mb Methylene Blue Nuclear structure, Nissl substance – blue. | | | and hyaline substance – blue; dense cellular | | | |
| | | | • | (V | (S) = Vertica | al Section |
| mc Mucicarmine Mucin – red. | 1 | • | | | | |
| | mc | Mucicarmine | Mucin – red. | | | |



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