

Histology Manual Lab Procedures

Humans, like most other mammals, are diphyodont, meaning that they develop two sets of teeth. The first set, deciduous teeth, also called "primary teeth", "baby teeth", or "milk teeth", normally eventually contains...

The name gentian violet was originally used for a mixture of methyl pararosaniline dyes (methyl violet), but is now often considered a synonym for crystal violet. The name refers to its colour, being like that of the petals of certain gentian flowers; it is not made from gentians or violets.

Canine gallbladder mucocele

Mathews KG, Cullen J, Seiler G (2015). "Association of Gallbladder Mucocele Histologic Diagnosis with Selected Drug Use in Dogs: A Matched Case-Control Study";

Canine gallbladder mucocele (GBM) is an emerging biliary disease in dogs described as the excessive and abnormal accumulation of thick, gelatinous mucus in the lumen, which results in an enlarged gallbladder. GBMs have been diagnosed more frequently in comparison to prior to the 2000s when it was considered rare. The mucus is usually pale yellow to dark green in appearance.

Staining

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Staining is a technique used to enhance contrast in samples, generally at the microscopic level. Stains and dyes are frequently used in histology (microscopic study of biological tissues), in cytology (microscopic study of cells), and in the medical fields of histopathology, hematology, and cytopathology that focus on the study and diagnoses of diseases at the microscopic level. Stains may be used to define biological tissues (highlighting,

for example, muscle fibers or connective tissue), cell populations (classifying different blood cells), or organelles within individual cells.

Diagnostic and Statistical Manual of Mental Disorders

The Diagnostic and Statistical Manual of Mental Disorders (DSM; latest edition: DSM-5-TR, published in March 2022) is a publication by the American Psychiatric

The Diagnostic and Statistical Manual of Mental Disorders (DSM; latest edition: DSM-5-TR, published in March 2022) is a publication by the American Psychiatric Association (APA) for the classification of mental disorders using a common language and standard criteria. It is an internationally accepted manual on the diagnosis and treatment of mental disorders, though it may be used in conjunction with other documents. Other commonly used principal guides of psychiatry include the International Classification of Diseases (ICD), Chinese Classification of Mental Disorders (CCMD), and the Psychodynamic Diagnostic Manual. However, not all providers rely on the DSM-5 as a guide, since the ICD's mental disorder diagnoses are used around the world, and scientific studies often measure changes in symptom...

J. F. A. McManus

handbook integrating newer histological and histochemical methods of tissue examination into standard laboratory procedures. After a one-year sabbatical

Joseph Forde Anthony McManus, (July 13, 1911 – March 4, 1980) was a Canadian pathologist who is best known for his formulation of one of the most frequently used stains in histopathology; the McManus Periodic acid-Schiff stain. Joe McManus was a pioneer in the field of Histochemistry during its period of expanding growth and application in the 1940s and 1950s. He was, furthermore, an exceptionally observant microscopist. The term he coined "Juxtaglomerular Complex" was used to denote the relationship of the renal tubular macula densa to the arteriolar granular cells. It was derived from his observations that the golgi of the distal tubular cells were reversed to a position beneath the nuclei in the macula densa and that the basement

membrane between the macula densa and arteriolar cells was...

Dermatology

procedures including liposuction, blepharoplasty, and face lifts. Most dermatologists limit their cosmetic practice to minimally invasive procedures.

Dermatology is the branch of medicine dealing with the skin. It is a specialty with both medical and surgical aspects. A dermatologist is a specialist medical doctor who has undergone advanced training (typically 4 years beyond medical school) and manages diseases related to skin. Dermatological conditions, including inflammatory diseases, infections, cancers, hair loss, and cosmetic issues are common in the population, and sometimes difficult to diagnose or treat, requiring the services of a dermatologist. Dermatological interventions include systemic and topical medications, surgery, radiation, and physical modalities such as cryosurgery or laser therapy.

As a field of general inquiry and research, pathology addresses components of disease: cause, mechanisms...

Megan Ambuhl

active duty on August 23, 2002. In civilian life, Ambuhl was a histology technician at LabCorp in Herndon, Virginia. Including Delayed Entry time, Ambuhl

Megan Ambuhl (born 1974 or 1975) is a former United States Army Reserve soldier who was convicted of dereliction of duty for her role in the prisoner abuse that occurred at Abu Ghraib prison, a notorious prison in Baghdad during the United States' occupation of Iraq.

Crystal violet

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Crystal violet or gentian violet, also known as methyl violet 10B or hexamethyl pararosaniline chloride, is a triarylmethane dye used as a histological stain and in Gram's method of classifying bacteria. Crystal violet has antibacterial, antifungal, and antihelmintic (vermicide) properties and was formerly important as a topical antiseptic. The medical use of the dye has been largely superseded by more modern drugs, although it is still listed by the World Health Organization.

In biochemistry, it involves adding a class-specific (DNA, proteins, lipids, carbohydrates) dye to a substrate to qualify or quantify the presence of a specific compound. Staining and fluorescent tagging can serve...

Alcian blue stain

Use of alcian blue has historically been a popular staining method in histology especially for light microscopy in paraffin embedded sections and in semithin

Alcian blue () is any member of a family of polyvalent basic dyes, of which the Alcian blue 8G (also called Ingrain blue 1, and C.I. 74240, formerly called Alcian blue 8GX from the name of a batch of an ICI product) has been historically the most common and the most reliable member. It is used to stain acidic polysaccharides such as glycosaminoglycans in cartilages and other body structures, some types of mucopolysaccharides, sialylated glycocalyx of cells etc. For many of these targets it is one of the most widely used cationic dyes for both light and electron microscopy. Use of alcian blue has historically been a popular staining method in histology especially for light microscopy in paraffin embedded sections and in semithin resin sections. The tissue parts that specifically stain by this...

Pathology

Hematology Histology Immunology List of pathologists Medical diagnosis Medical jurisprudence Medicine Microbiology Microscopy Minimally-invasive procedures Oncology

Pathology is the study of disease. The word pathology also refers to the study of disease in general, incorporating a wide range of biology research fields and

medical practices. However, when used in the context of modern medical treatment, the term is often used in a narrower fashion to refer to processes and tests that fall within the contemporary medical field of "general pathology", an area that includes a number of distinct but inter-related medical specialties that diagnose disease, mostly through analysis of tissue and human cell samples. Pathology is a significant field in modern medical diagnosis and medical research. A physician practicing pathology is called a pathologist.

The name originates from the Greek word *kele* meaning tumour as a mucocele resembles a mass. Although this disease is primarily identified in dogs, cats and ferrets have also been diagnosed.

Human tooth

2002, p. 452 Cate 1998, p. 256 Cate 1998, p. 260 Listgarten, Max A. *"Histology of the Periodontium: Principal fibers of the periodontal ligament,"* University

Human teeth function to mechanically break down items of food by cutting and crushing them in preparation for swallowing and digesting. As such, they are considered part of the human digestive system. Humans have four types of teeth: incisors, canines, premolars, and molars, which each have a specific function. The incisors cut the food, the canines tear the food and the molars and premolars crush the food. The roots of teeth are embedded in the maxilla (upper jaw) or the mandible (lower jaw) and are covered by gums. Teeth are made of multiple tissues of varying density and hardness.

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