

Annotated List of Disciplines and Sub-disciplines in the Biological Sciences

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Acarology - mites (Acarological Society of America 2007)

Aerobiology - sources, dispersal, and deposition of airborne biological particles (Pan-American Aerobiology Association 2003).

Aeromicrobiology - microbes that live and are transported through the air (Maier et al 1999).

Agricultural Meteorology - relationships between weather/climate and agricultural production (International Society for Agricultural Meteorology 2007).

Agrobiolgy - scientific approaches to high agricultural productivity and sustainability (Univeristi of Sains Malaysia 2007).

Agrology - science-based management principles relating to agriculture and the agri-food system (Ontario Institute of Agrology 2006).

Agrostology – grasses (Henderson’s Dictionary of Biological Terms 1995).

Allergology - allergies (Japanese Society of Allerology 2007).

Analytical Cytology - measurements of cells and cell processes (International Society for Analytical Cytology 2007).

Anatomical Pathology - examination of organs and tissues to determine the causes and effects of particular diseases (University of Virginia Health System 2008).

Andrology - male reproduction (American Society of Andrology 2005).

Anthrozoology - human-animal interactions (International Society for Anthrozoology 2000).

Anti-Aging Medicine - methods to inhibit and optimize the human aging process (American Academy of Anti-Aging Medicine 2004).

Antimicrobial Chemotherapy - treatment of infectious disease and effective use of microbes (British Society for Antimicrobial Chemotherapy 2007).

Apiology - bees (Eastern Apicultural Society 2007).

Aquatic Plant Management - nuisance aquatic plant species and wetland vegetation (Aquatic Ecosystem Restoration Foundation 2007).

Arachnology - all arachnids (spiders, harvestmen, scorpions) but not acarids (mites) (International Society of Arachnology 2007).

Arboriculture - tree care (Arborcultural Association 2007).

Arctic, Antarctic, and Alpine Research - high latitude environments (Institute of Arctic and Alpine Research 2003).

Arteriology - anatomy of arteries (Drugs.com 2007).

Astrobiology (or Xenobiology) - evolution and possibility of life in the universe (National Aeronautics and Space Administration 2007).

Audiology - hearing and sense of balance (American Academy of Audiology Foundation 2007).

Autoecology - ecology of populations (Society of Population Ecology 2007).

Autopsy - medico-legal investigation of death (The National Association of Medical Examiners 2007).

Autopsy Pathology - disease diagnosis by dissection and examination of a corpse for future medical application for family members (Cedars-Sinai-2007).

Auxology - disease growth and developmental (International Association for Human Auxology 2007).

Avian Medicine and Surgery - surgery and medicine of birds (American Association of Avian Veterinarians 2005)

Avian Pathology - disease of birds (World Veterinary Poultry Association 2007).

Bacteriology - bacteria (American Society for Microbiology 2007).

Behavioral Neurology - neuroscience and behavior (Society for Behavioral and Cognitive Neurology 2007).

Behavioural Ecology - behavioral interactions among animals (Behavioral Ecology Research Group 2007).

Behavior Genetics - interrelationship of genetic mechanisms and behavior (Behavior Genetics Association 2007).

Behavioural and Neural Genetics - genetic influence on individual variations in animal behavior (Human Genome Project Information 2007).

Benthology - biotic communities of lake and stream bottoms (North American Benthological Society 2007).

Biochemistry - molecular nature of life processes (American Society for Biochemistry and Molecular Biology 2007).

BioComputing - computational and experimental methods in biology; involves: 3D electron microscopy, informatics, and computing (Biocomputing Unit 2007).

Biocybernetics - biomeasurements; artificial internal organs for metabolic support systems; mathematical and physical analysis and modeling of physiological systems and processes; computer aided image processing and speech synthesis; computer systems in biology and medicine (Institute of Biocybernetics and Biomedical Engineering 2007).

Bioenergetics - personality in terms of the body and its energetic processes (International Institute for Bioenergetic Analysis 2007).

Bioerosion - erosion of substrates by means of biological procedures (Neumann 1966).

Bioethics - ethical, social, medical, and legal issues brought about by science and technology (Penn Bioethics Society 2004).

Biogeochemistry - effects of biological and geochemical on element cycles in nature (The Biogeochemistry Group 2007).

Biogeography - diversity patterns in the geographic variation of nature (International Biogeography Society 2003).

Bioinformatics – a merging of biology, computer science, and information technology to form a new discipline where the primary aim is the creation and maintenance of a database to store biological information such as nucleotide and amino acid sequences (National Center for biotechnology Information 2004).

Biological Effects of Noise - effects of noise on biological systems (International Commission on Biological Effects of Noise 2007).

Biological Mathematics - theoretical approaches and mathematical tools in biology and medicine (European Society for Mathematics and Theoretical Biology 2007).

Biological Psychiatry – biological causes of and treatments for psychiatric disorders (Society of Biological Psychiatry 2008).

Biological Rhythms Research - basic and applied research on biological rhythms (Society Research of Biological Rhythms 2007).

Biological Thermodynamics – energy transformations in the context of living organisms, parts of living organisms, and entire ecosystems (Double Dragon Biotechnology Consulting 2008).

Biology Laboratory Education - teaching biology in a laboratory setting (Association for Biology Laboratory Education 2005).

Biomaterials - use of biomaterials in medical and surgical devices (Society for Biomaterials 2007).

Biomechanics - mechanics of movement with special emphasis on human beings (International Society for Biomechanics 2007).

Biomedical Engineering - principles of physical, chemical, mathematical, and computational sciences and engineering to study biology, medicine, behavior, and health (Biomedical Engineering Society 2007).

Biometeorology - interactions between atmospheric processes and living organisms (International Society of Biometeorology 2007).

Biometry - pursuit of biological knowledge by quantitative methods (Fisher 1947 *In The International Biometric Society* 2007).

Biomineralisation – the ordered deposition and controlled growth of inorganic crystals in living organisms to form skeletal tissues with specific functions and material properties (University of Leeds 2008).

Bionics – interdisciplinary field dealing with man's use of structures, methods, and processes found in biological systems in relation to technical development (Aalborg University 2007).

Biophysics - principles of physics, chemistry, mathematical analysis, and computer modeling to understand how biological systems work (Biophysical Society 2007).

Biospectroscopy - spectroscopic examination of specimens of living tissue and fluids (Center for Cancer Education 2007).

Biostatics – structure of living organisms in relation to function (Henderson's Dictionary of Biological Terms 1995).

Botanical Art - structure of plants and dissemination of this knowledge in an aesthetically pleasing manner (American Society of Botanical Artists 2007).

Bryology and Lichenology - bryophytes and lichen-forming fungi (American Bryological and Lichenological Society 2007).

Bryozoology - phylum Bryozoa (International Bryozoan Association 2007).

Cactus and Succulent Plant Science - cacti and other succulent plant allies (International Organization for Succulent Plant Study 2007).

Carcinology - crustaceans (The Crustacean Society 2007).

Cardiac Electrophysiology - cardiac electrophysiology and arrhythmias (Cardiac Electrophysiology Society 2007).

Cardiology - structure, function, and disorders of the heart (European Society of Cardiology 2007).

Cardiovascular Surgery - surgery of the heart and vascular tissues (The European Society for Cardiovascular Surgery 2007).

Cartilage Biology - skeletal development, biochemistry, biomechanics, cell and molecular biology of cartilage (Gordon Research Conferences 2007).

Cataract and Refractive Surgery - anterior segment ophthalmic surgery (American Society of Cataract and Refractive Surgery 2007).

Cell Stress - cellular response under stress (Cell Stress Society International 2007).

Cell Transplant - transplantation of cells, including: pancreatic islets, bone marrow, endothelial, epidermal, myoblast, neural and stem cells (Cell Transplant Society 2007).

Cellular Neuroscience - biophysical, biochemical, and molecular processes that govern the function of sensory receptors and neurons (Institute of Neuroscience 2007).

Cereal Chemistry - use of cereal grains in foods and analytical methodology, nutrition, folate enrichment (American Association of Cereal Chemists 2007).

Cetology – whales, dolphins, and porpoises (Clapham 2002).

Chelonology - turtles (Missouri Stream Team 2007).

Chemical Ecology - interactions between organisms and their environment, mediated by naturally occurring chemicals (International Society of Chemical Ecology 2001).

Chemoreception - chemical senses of gustation, olfaction and trigeminal sensation (Association of Chemoreception Sciences 2007).

Chiropterology - bats (order Chiroptera) (Masaryk University 2007).

Chorology - causal relations between geographical phenomena occurring within a particular region and spatial distribution of organisms (Sack 1974).

Chronobiology - sleep and circadian rhythms (Australasian Chronobiology Society 2007).

Cladistics - classification that arranges organisms only by their order of branching in an evolutionary tree and not by their morphological similarity (Luria et al 1981).

Classical Genetics - techniques and methodologies of genetics that predate the advent of molecular biology (Rapid Learning Center 2008).

Clinical Anatomy - clinical practice of anatomy in all its aspects, including: gross, histologic, developmental and neurologic (American Association of Clinical Anatomists 2002).

Clinical Biochemistry - changes that occur in disease in the chemical composition and biochemical mechanisms of the body (Baron 1986 IN Association of Clinical Biologists in Ireland 2005).

Clinical Biostatistics - analysis of clinical research by applying statistical theory clinical medicine (International Association for Clinical Biostatisticians 2007).

Clinical Chemistry - use of chemical processes in a clinical setting to evaluate patient health (American Association for Clinical Chemistry 2007).

Clinical Endocrinology - treatment of endocrine disorders, including: diabetes, reproduction, infertility, osteoporosis, thyroid disease, obesity/lipids, growth hormone, pituitary tumors, and adrenal insufficiency (The Endocrine Society 2007).

Clinical Immunology - care of patients with immunologic/inflammatory disorders (Clinical Immunology Society 2007).

Clinical Microbiology - microbiological aspects of human and animal infections with emphasis on their etiologic agents, diagnosis, and epidemiology (American Society for Microbiology 2007).

Clinical Neurophysiology - central and peripheral nervous system function in health and disease (American Clinical Neurophysiology Society 2006).

Clinical Nutrition - nutrition research and its application to development and implementation of policies and practices related to nutrition (American Society for Nutrition 2007).

Clinical Pathology - diagnosis of disease based by analyzing body fluids (American Society for Clinical Pathology 2007).

Clinical Virology - viral pathogenesis, manifestations of disease, laboratory diagnosis, prevention, and therapy (Pan American Society for Clinical Virology 2006).

Cognitive Neuroscience - perception, action, memory, language and selective attention (Kandel *IN* Cognitive Neuroscience Society 2004).

Cognitive Psychophysiology - cognitive, social, affective, educational and developmental neuroscience and neuropsychiatry (British Association of Cognitive Neuroscience 2007).

Coleopterology - theory, principles, methodology, and practice, for both living and fossil beetles (Coleopterists Society 1996).

Colonial Waterbird Biology - the world's waterbirds including seabirds, wading birds, shorebirds, and waterfowl (The Waterbird Society 2007).

Community Ecology – interactions among species and between species and the abiotic environment and effects on community structure including: species richness, species diversity, and patterns of species abundance (McGinley 2008).

Comparative Anatomy – the study of animal structure to deduce evolutionary pathways in particular animal groups (McGraw-Hill Textbooks: Plants, Animals, and the Environment Virtual Glossary 2008).

Comparative Parasitology - parasitology and helminthology (BIOONE 2007).

Comparative Zoology - systematics, evolutionary biology, ecology and other aspects of organismal and comparative biology (Museum of Comparative Zoology 2007).

Computational Biology - combination of molecular biology and computer science to examine living systems through computation (International Society for Computational Biology 2007).

Computational Neurobiology - computer modeling of neural structures from the level of single cells to that of large networks to study the nervous system (Netlib 2007).

Conchology - mollusks (Conchological Society of Great Britain and Ireland 2007).

Conservation Biology - phenomena that affect the maintenance, loss, and restoration of biological diversity (Society for Conservation Biology 2005).

Conservation Medicine - intersection of ecology and health sciences as it applies to achieving a sustainable future for humans and other species (Aquirre et al 2002).

Copepodology - copepods (World Association of Copepodologists 2005).

Crop Science - conservation and use of natural resources to produce food, feed, and fiber crops (Crop Science of America 2007).

Crustacean Biology - biology of the Crustaceans (The Crustacean Society 2007).

Cryobiology - biological material or system (e.g., proteins, cells, tissues, or organs) subjected to low temperatures (Society for Cryobiology 2007).

Cryptozoology - hidden or unknown animals (Cape Cod Cryptozoological Society 2005).

Culture Collection - collection of microorganisms (American Type Culture Collection 2007).

Cynology - evolution, psychology, behaviorism, and ethology of dogs (Center of Experimental Cynology 2007).

Cytology - cell structure, cell composition, and interactions of cells with other cells and the larger environment in which they exist (Wisegeek 2007).

Cytopathology - methods of diagnostic pathology at the cellular level (American Society of Cytopathology 2006).

Deep Ecology - ecological sustainability by reevaluating assumptions about economics, development, and the place of human beings (Foundation for Deep Ecology 2007).

Dendrochronology - dating tree rings to their exact year of formation to analyze temporal and spatial patterns of processes in the sciences (Henri D. Grissino-Mayer's Ultimate Tree-Ring Web Pages 1996).

Dental Pathology - oral and maxillofacial lesions and diseases (Anonymous 2007).

Dentistry – evaluation, diagnosis, prevention, and treatment of diseases, disorders, of the oral cavity, maxillofacial area, and areas adjacent and their impact on the human body (American Dental Association 2008).

Dermatologic Surgery - diagnosis and treatment of potentially deadly skin cancers (American Society for Dermatologic Surgery 2005).

Developmental Immunology - evolution of immune systems (International Society of Developmental and Comparative Immunology 2007).

Developmental Biology - cellular and molecular mechanisms which direct the highly coordinated development of multicellular organisms (Israeli Society for Developmental Biology 2004).

Diagnostic Immunology - diagnosis of immunological/inflammatory diseases (Clinical Immunology Society 2007).

Diatom Research - diatoms (International Society for Diatom Research 2007).

Digestive Pathology - diagnosis and treatment of diseases of the digestive tract.

Ecological Economics - relationships among ecological, social, and economic systems to the mutual well-being of nature and people (International Society for Ecological Economics 2007).

Ecological Genetics - animal adaptations to environmental conditions through population genetics, genomics, phylogeography, evolutionary quantitative genetics and statistical genetics (Ecological Genetics Research Unit 2006).

Ecological Psychology - psychological and behavioral processes as they occur within the ecological constraints of animal-environment systems (International Society for Ecological Psychology 2003).

Ecology - relationships between living organisms, including humans, and their physical environment (Ecological Society of America 2005).

Economic Botany - past, present, and future uses of plants, and the relationship between plants and people (Society for Economic Botany 2007).

Economic Entomology - economic significance of insects (Entomological Society of America 2007).

Ecophysiology - physiological, biochemical, and molecular basis for ecological adaptation (Luttge and Scarano 2004).

Ecosystem Ecology - flow of energy and materials through ecosystems and the impacts of the physical and chemical environment on ecosystem functioning (Univ. California Santa Barbara 2007).

Ecotoxicology - environmental effects of natural and synthetic chemicals in the biosphere through multidisciplinary research (Australian Society for Ecotoxicology 2004).

Edaphology- soils as habitat for plants and other organisms (Northern Arizona University 2004).

Electrodiagnostic Medicine - diagnosis and treatment of patients with disorders of muscles and nerves by electrodiagnostic technology (American Association for Neuromuscular and Electrodiagnostic Medicine 2007).

Electron Microscopy - electron microscope applications and techniques (Deutsche Gesellschaft für Elektronenmikroskopie 2005).

Electrophoresis - electrophoretic separations of various biomolecules (American Electrophoresis Society 2007).

Electrophysiology - electrical events associated with functioning of neurons, neural systems, and the brain (Aston-Jones and Siggins 2000).

Embryology – formation and early development of living organisms from the formation of a zygote to until it becomes a fetus (Biology Online 2006).

Emergency Medicine - care of the acutely ill and injured patient (Society for Academic Emergency Medicine 2007).

Endocrinology - molecular, cellular, tissue and organismal level of hormone function (Endocrine Society 2007).

Enology/ Viticulture - wine making, including: wine chemistry, sensory science, process engineering, wine quality, microbiology, methods development, plant pathogenesis, diseases and pests of grape, rootstock and clonal evaluation, effect of field practices, and grape genetics (American Society for Enology and Viticulture 2007).

Entomology - insects (Royal Entomological Society 2007).

Environmental Biology - conservation and management of natural resources using ecological principles (Canadian Society of Environmental Biologists 2007).

Environmental Chemistry - applying chemistry to solve environmental and sustainability issues (American Chemical Society 2007).

Environmental Entomology - interactions of insects with the biological, chemical, and physical aspects of their environment (Entomological Society of America 2007).

Environmental Microbiology - multidisciplinary field: microbial life in all habitats, biodegradation, public health, drinking and waste water, and biofilms (Wiley Interscience 2007).

Epidemiological Virology - spread of viral infections across populations.

Epidemiology- diseases in populations of humans or other animals, specifically how, when, and where they occur (Extension Toxicology Network 1993).

Equinology - horse health and care (Equinology Inc. 2007).

Ethnobotany - relationships between people and plants through beliefs, tradition, religion and culture (Ethnobotanical Society of Nepal 2007).

Ethnomedicine - plant medicine and patterns of wellness and disease among indigenous people (Institute for Ethnomedicine 2007).

Ethnomycology – historical uses and sociological impact of fungi (The Language of Science – Dictionary and research Guide 2008).

Ethology - behaviors of animals (Czech and Slovak Ethological Society 2007).

Etiology - causes and origins of disease (MedicineNet 2007).

Eukaryotic Microbiology - protists, lower algae, and fungi (Blackwell publishing 2006).

Evolutionary Biology - organic evolution and the integration of those scientific fields that are concerned with evolution (European Society for Evolutionary Biology 2007).

Evolutionary Developmental Biology - coalescence of evolution and embryology to characterize genes that trigger different developmental processes and varying biological forms (Science Week 2003).

Evolutionary Protistology - phylogeny and evolutionary biology of protists (International Society for Evolutionary Protistology 2006).

Exercise Physiology - physiological mechanisms underlying physical activity, the comprehensive delivery of treatment services concerned with the analysis, improvement, and maintenance of health and fitness, rehabilitation of disease (American Society of Exercise Physiologists 2007).

Exobiology - origin, evolution, and distribution of life in the universe (National Aeronautics and Space Administration 2007).

Experimental Biology - form and function of living organisms at all levels of biological organization (Company of Biologists 2007).

Experimental Hematology - hematology, immunology, stem cell research, cell and gene therapy (International Society for Experimental Hematology 2007).

Exposure Analysis - population and ecosystem exposures to environmental contaminants (International Society of Exposure Analysis 2007).

Fire Ecology - relationships between fire and environments, and use of fire in land management (AFE 2007).

Floriculture - cultivation of crops such as cut flowers, cultivated greens, potted flowering plants, potted foliage plants, bedding and gardening plants (International Society for Horticulture Science 1998).

Food Microbiology - microorganisms implemented in food-borne diseases and food spoilage, and the use of microbes for food production (University of Maryland 2006).

Forensic Pathology - application of the principles of pathology, and of medicine in general, to the legal needs of society (American Academy of Forensic Sciences 2006).

Forensic Toxicology - medico-legal aspects of toxicology (American Academy of Forensic Sciences 2006).

Forestry - attaining desired forest conditions and benefits (Society of American Foresters 2007).

Freshwater Biology - biology and ecology of organisms living in lakes and streams (University of California Santa Barbara 2007).

Freshwater Invertebrate Biology - biotic communities of stream, river, and lake bottoms and their role in aquatic ecosystems (JSTOR 2007).

Gastroenterology - all aspects of the digestive system, including the liver and pancreas, nutrition, and gastrointestinal diseases (American Gastroenterology Association 2007).

Genetic and Evolutionary Computation - algorithm methods based on natural selection and genetics (International Society for Genetic and Evolutionary Computation 2004).

Genetic Epidemiology - examining disease in a manner that integrates both host and environmental factors through genetics (International Genetic Epidemiology Society 2007).

Genetic Toxicology - mechanisms and consequences of exposure of living organisms to genotoxic chemicals and radiations (European Environmental Mutagen Society 1999).

Gerontology - medicinal principles in caring for older persons (American Geriatric Society 2006).

Global Ecology - interactions among the earth's ecosystems, land, atmosphere, and oceans (Carnegie Institute Dept. of Global Ecology 2007).

Glycobiology - structures of glycoproteins, glycolipids, glycosaminoglycans, and their functions in biological systems (Society for Glycobiology 2007).

Gnotobiotics - maintaining a microbiologically controlled environment (Association for Gnotobiotics 2007).

Gynecologic Laparoscopy - surgery of the female reproductive tract (American Association of Gynecological Laproscopists 2007).

Gynecologic Oncology - prevention and treatment of gynecologic malignancies (Society of Gynecologic Oncologists 2007).

Gynecology - female reproductive systems.

Hematology - disorders affecting the blood, bone marrow, and the immunologic, hemostatic and vascular systems (American Society of Hematology 2007).

Hematopathology - clinical, morphological and functional aspects of the hematopoietic and lymphoreticular systems (Society for Hematopathology 2005).

Hepatology - preventing and curing liver disease (American Association for the Study of Liver Diseases 2006).

Herpetology - amphibians and reptiles (Society for the Study of Amphibians and Reptiles 2007).

Histochemistry - cell and tissue biology by molecular and morphological techniques (Histochemical Society 2006).

Histocompatibility - immunology of transplanted tissues (American Society for Histocompatibility and Immunogenetics 2005).

Histopathology - microscopic examination of diseased tissue (University of Georgia 2008).

Histotechnology - cellular morphology, chemical composition and function of normal and abnormal tissue (National Society for Histotechnology 2006).

Human Anatomy – organs and organ systems of the human body (knowledgerush.com 2009).

Human Behavior and Evolution - using evolutionary theory to study evolved emotions and cognitive and sexual adaptations in humans (Human Behavior and Evolution Society 2006).

Human Ecology - complex and varied systems of interaction between people and their environment (Hunter College 2007).

Human Ethology - biological bases of human behaviors (University of New Mexico 2003).

Human Evolution – emergence of modern humans as a distinct species (Human Evolution 2008).

Human Genetics - human genome and human variation (American Society of Human Genetics 2007).

Human Genomics - research efforts to sequence and map all of the genes of human beings (National Human Genome Research Institute 2007).

Human Proteome - structure and functions of proteins at the cellular or tissue levels and how proteins interact with each other (Human Proteome Organization 2005).

Hydrobiology - biological components involved with biological organisms (Biology-Online.org 2005).

Hydroponics – cultivation of plants without soil in a nutrient-rich water (Henderson's Dictionary of Biological Terms 1995).

Ichnology - investigation of animal-sediment interactions in both modern and ancient environments (Ichnology Research Group 2007).

Ichthyology - fishes (European Ichthyological Society 2007).

Immunogenetics - genetic control of components of the immune system and their interactions in animals (Blackwell Publishing 2006).

Immunology - an organism's defense system, in both health and disease (British Society for Immunology 2007).

In Vitro Biology - biological systems in an artificial environment outside the living organism (Answers.com 2007).

In Vitro Cellular Biology - plant and animal organ, tissue, and cell cultures in an artificial environment (Graziadei 1992).

Inborn Errors of Metabolism - diagnosis, pathophysiology and treatment of genetic metabolic diseases (National Institute of Diabetes and Digestive and Kidney Disease 2007).

Industrial Microbiology - microbiological sciences, especially as they apply to industrial products, biotechnology, materials, and processes (Society for Industrial Microbiology 2007).

Insect Ecology - influences and interactions of insect populations and insect communities on ecosystem processes that affect landscape structure, function, and change (Coulson 2007).

Integrated Environmental Assessment - science-based decision-making, regulation, and environmental management (SETAC Journal 2007).

Integrative-Comparative Biology - multi-disciplinary field of study, including: behavior, biomechanics, endocrinology, biochemistry, cell biology, evolutionary developmental biology, evolution, ecology, invertebrate zoology, neurobiology, systematics, and morphology (Society for Integrative and comparative Biology 2007).

Internal Medicine - prevention, diagnosis, and treatment of diseases that affect adults (American College of Physicians 2008).

Invertebrate Biology - biology of invertebrate animals in all its aspects (Blackwell Publishing 2006).

Invertebrate Pathology - diseases of invertebrates, including the suppression of diseases in beneficial species, and the use of diseases in controlling undesirable species (Elsevier 2007).

Invertebrate Taxonomy - classification of invertebrates.

Investigative Pathology - disease in a whole organism to its fundamental cellular and molecular mechanisms (American Society of Investigative Pathology 2007).

Karyology - characteristics of chromosomes such as shape and banding patterns (Everything Bio 2007).

Keraunomedicine - the medical study of lightning casualties (SMSO 2005).

Lake Management - studying lakes as endpoints of land, streams, wetland, and estuaries (North American Lake Management Society 2007).

Landscape Ecology - spatial variation in landscapes at a variety of scales. It includes the biophysical and societal causes and consequences of landscape heterogeneity (International Association for Landscape Ecology 2007).

Landscape Horticulture - design, implementation, management, and conservation of urban and rural landscapes (Princeton Review 2007).

Lepidopterology - butterflies and moths (Societat Catalana de Lepidopterologia 1997).

Limnology - inland waters as ecological systems interacting with their drainage basins and atmosphere, including: lakes, streams, rivers, wetlands and groundwater (American Society of Limnology and Oceanography 2007).

Macrobiology - biological macromolecules: polysaccharides, lipids, proteins, and nucleic acids (www.macrobiology.com 2007).

Macroecology - abundance and distribution of species at large spatial and temporal scales; rather than experimentally manipulating a system, the macroecological perspective attempts to characterize and explain statistical patterns (Mississippi State University 2007).

Malacology - mollusks (American Malacological Society 2007).

Mammalogy - mammals (American Society of Mammalogists 1999).

Marine Biology - life in the seas and on shores (British Marine Life Study Society 2007).

Mathematical Biology - furthering biological understanding through mathematics (Springer Science +Business Media 2007).

Matrix Biology - structure and function of components of the extracellular matrix (American Society for Matrix Biology 2004).

Medical Entomology - systematics and biology of insects, acarines, and other arthropods of public health and veterinary significance (Entomological Society for America 2007).

Medical Genetics - genetic screening, diagnosis and treatment services, as well as research of genetic diseases (Cedars-Sinai 2007).

Medical Informatics - organization, analysis, management, and use of information in health care (American Medical Informatics Association 2007).

Medical Instrumentation - develop, manage, and use medical instrumentation and related technologies safely and effectively (Association for the Advancement of Medical Instrumentation 2007).

Medical Microbiology - microbiological diagnosis of human disease (American Board for Medical Microbiology 2007).

Medical Physics - application of physics to the needs of medicine, including: radiology, radiation oncology, and nuclear medicine (Duke University 2007).

Mental Retardation - learning and developmental disabilities (American Association for Mental Retardation 2005).

Microbial Ecology - microbes in the environment and their interactions with each other (International Society for Microbial Ecology 2007).

Microbial Genetics - functions of genes or networks of genes in microbes (American Society for Microbiology 2007).

Microbial Physiology - structure, growth, and metabolic pathways used by bacteria, yeasts, and molds (University of Alberta 2003).

Microbiology - bacteria, viruses, rickettsiae, mycoplasma, fungi, algae and protozoa (American Society for Microbiology 2007).

Microecology - two meanings: (1) ecology of microbes (2) interactions of organisms at relatively small microhabitat spatial scales (Everythingbio.com 2009; Aranson 1992).

Micropaleontology - fossilized micro-life forms, including: foraminifera, microvertebrate, ostracod, silicofossils, and pollen (Micropaleontology Society 2007).

Microscopic Anatomy - form of normal structures seen under the microscope, as opposed to gross anatomy which involves structures that are big enough to be observed with the naked eye (MedicineNet 2000).

Molecular Biology and Evolution - evolution on the molecular level (Society for Molecular Biology and Evolution 2007).

Molecular Biophysics - principles and techniques of experimental physics, biochemistry, and molecular biology to understand how biomolecules function (Ribak 1994).

Molecular Cellular Cognition - molecular and cellular basis of cognitive function (Molecular and Cellular Cognition Society 2007).

Molecular Ecology – the application of molecular biology techniques to into ecology including: molecular identification of species, individual and gender, behavioral genetics, population

genetics, molecular and adaptive variation, phylogeography, conservation genetics, microbial ecology, and genetically modified organisms (Beebe and Rowe 2008).

Molecular Genetics - fundamental theory alleging that genes direct all life processes through the production of polypeptides, sometimes to a more modest basic theory about the expression and regulation of genes at the molecular level, and sometimes to an investigative approach applied throughout biomedical science that is based on investigative strategies grounded in the basic theory about genes.

Molecular Neuroscience - nerve cells or nervous systems, including a broad range of approaches from the molecular level (Journal of Neuroscience 2007).

Molecular Pathology - clinical molecular laboratory medicine and translational research based on the applications of genomics and proteomics (Association for Molecular Pathology 2007).

Molecular Virology - viruses and viral infections at the molecular level (Institute for Molecular Virology 2007).

Morphogenesis - maintenance, degeneration, and regeneration of tissues and organs as well as their formation (Morphogenesis and Regenerative Medicine Institute 2005).

Mountain Research - ecoregions and ecosystems in mountainous regions (International Mountain Society 1999).

Mutagenesis - mechanisms of action of physical, chemical and biological agents capable of producing genetic change and the consequences of such changes (United Kingdom Environmental Mutagen Society 2007).

Mycology - fungi (Mycological Society of America 2007).

Myrmecology - ants (Myrmecology Group 2007).

Nematology - plant-parasitic, entomopathogenic, and other soil-inhabiting roundworms (Nematology Society of India 2007).

Nephrology - diseases of the kidneys (International Society of Nephrology 2007).

Neural Engineering - engineering methods to analyze neurological function as well as to design solutions to problems associated with neurological limitations and dysfunction (Institute of Physics Publishing 2007).

Neural Transplantation - stem/neural progenitor cell transplantation for repair due to neurodegenerative disease or trauma (American Society for Neural Therapy and Repair 2007).

Neuroanatomy - morphology and structure of the central and peripheral nervous system (Journal of Neuroanatomy 2007).

Neurobiology – morphology, physiology, biochemistry, and development of the brain and nervous system and the biochemical and cell biological basis of brain function (Henderson’s Dictionary of Biological Terms 1995).

Neurochemistry - molecular, chemical, and cellular biology of the nervous system (Blackwell Publishing 2006).

Neurocybernetics - structure and function of the nervous system, with special emphasis on the role of the brain via computer models of brain function (Cybernetics Society 2001).

Neuroeconomics - how emergent mental computations in the brain interact with the emergent computations of institutions to produce legal, political, and economic order (George Mason University 2007).

Neuroendocrinology - interactions between behavior, genes, and neuroendocrine systems (Society for Behavioral Neuroendocrinology 2005).

Neuroethology - animal behavior in terms of how the nervous system works (International Society for Neuroethology 2007).

Neuroimaging - techniques to image the nervous system (American Society of Neuroimaging 2007).

Neurolinguistics - interactions between language, communication, and brain processes (Elsevier Publishing 2007).

Neurology – morphology, physiology, and pathology of the nervous system, in a more clinical orientation than neurobiology (Henderson’s Dictionary of Biological Terms 1995).

Neuropathology - principles of pathology as they apply to diseases of the nervous system (Northeastern Ohio Universities College of Medicine 2007).

Neuropharmacology - ranging from basic mechanisms of action, structure-activity relationships, drug metabolism, and pharmacokinetics, to such practical clinical problems as drug interactions, drug toxicity, and the therapeutics of specific syndromes or symptoms. Disorders often classified as psychiatric, as well as classical neurological disorders, are included (Lippincott Williams & Wilkins 2008).

Neurophysiological Monitoring - development, and practice of interventional neurophysiological assessment and monitoring (American Society of Neurological Monitoring 2007).

Neuropsychiatry - links between neuroscience and behavior, and development of effective diagnosis and treatment for patients with neuropsychiatric disorders (American Neuropsychiatric Association 2007).

Neuropsychology - relationships between brain and human cognitive, emotional, and behavioral function (American Psychological Association 2007).

Neuroradiology - diagnostic radiology of diseases of the central nervous system, brain, head and neck, through the use of x-ray, MRI, CT and angiography (American Society of Neuroradiology 2006).

Neurosurgery - surgical practices to treat disorders that affect the nervous system (American Association of Neurological Surgeons 2007).

NeuroVirology - neurodegenerative and neoplastic disease in the nervous system due to viral infections (International Society for Neurovirology 1998).

Nitrogenomics - genomics pertaining to Nitrogen utilization and assimilation in organisms (Economicexpert.com 2008).

Nosology – branch of medicine dealing with the classification of diseases (Henderson’s Dictionary of Biological Terms 1995).

Nutriology - foods, their components and their uses in diet and therapy (Papermill Press 2007).

Olericulture - physiology and production of vegetables (Olericulture.org 2007).

Oncology - cancer and care for cancer patients (American Society of Clinical Oncology 2007).

Oocology - structure, function, and development of egg cells.

Oology – examination and identification of the eggs of birds (Henderson’s Dictionary of Biological Terms 1995).

Ophiology - snakes (Klauber 1948).

Ophthalmology – medicine and surgery of the eye (American Academy of Ophthalmology 2009).

Ornithology - birds (Cornell Lab of Ornithology 2003).

Orthopaedic Surgery - surgical treatment of acute, chronic, traumatic, and overuse injuries and other disorders of the musculoskeletal system (Wikipedia 2007).

Orthopterology - grasshoppers and crickets (order Orthoptera) (Orthopterists Society 2001).

Osteopathic Medicine - inter-relationships of nerves, muscles, bones and organs (American Osteopathic Association 2007).

Ostracology - SEE Conchology

Otolaryngic Allergy - diagnosis and treatment of allergic disorders such as sinusitis and allergic rhinitis (American Academy of Otolaryngic Allergy 2007).

Otorhinolaryngology - diagnosis and treatment of the ear, nose, and throat, specialties includes: audiology, speech and swallowing therapy, ophthalmology, pediatrics, neurosurgery, dermatology, allergy and immunology, pulmonary medicine, and oncology (Mayo Clinic 2007).

Palaeobotany – fossil plants and plant impressions (Henderson’s Dictionary of Biological Terms 1995).

Paleoanthropology - hominid behavioral and biological evolution by archeology and paleontology methods (Paleoanthropology Society 2007).

Paleobiology - examining evolution of earth, diversity of life, evolution of humans, and interrelationships of living things and their environments through paleontological methods (National Museum of Natural History 2007).

Paleoecology - investigation of individuals, populations, and communities of ancient organisms and their interactions in changing environments (Gastaldo, Savrda, and Lewis 1996).

Paleontology - systematics, phylogeny, paleoecology, paleogeography, and evolution of fossil organisms (The Paleontological Society 2007).

Paleozoology – biology of extinct animals from fossils and fossil impressions (Henderson’s Dictionary of Biological Terms 1995).

Palynology - pollen, spores, and similar palynomorphs, living and fossil (Davis 1999).

Parasitology - parasites, their hosts, and the relationship between them (Parasitology.com 2007).

Pathology - body fluids and tissues for diagnosis, and laboratory tests to monitor chronic disease (College of American Pathologists 2007).

Pediatric Endocrinology - disorders involving hormone production and distribution in children, often associated with growth, puberty, and diabetes (American Academy of Pediatrics 2003).

Pediatric Ophthalmology - diagnosis, treatment, correction, and prevention of eye disorders in infants, children, and adolescents, as well as for the treatment of strabismus in all age groups (Journal of Pediatric Ophthalmology & Strabismus 2007).

Pediatric Urology - diagnosis and treatment of diseases of the urinary tract in children (American Academy of Pediatrics 2007).

Peptide Biology - structure and functions of proteins from the molecular to the bioinformatics level (Royal Society of Chemistry 2007).

Periodontology - prevention, diagnosis and treatment of diseases affecting the gums and supporting structures of the teeth and in the placement and maintenance of dental implants (American Academy of Periodontology 2007).

Pharmacology - drug action on biological systems and research on chemical properties, biological effects, and therapeutic uses of drugs (American Society for Pharmacology and Experimental Therapeutics 2007).

Pharmaceutical Microbiology - prevention of biofilm formation and/or eradicate existing biofilms, detection of micro-organisms in various samples, molecular epidemiology of human pathogens (Universiteit Gent 2007).

Pharmacoepidemiology - utilization and effects of drugs in human populations (International Society for Pharmacoepidemiology 2007).

Pharmacogenetics - genes encoding drug metabolizing enzymes, transporters, receptors and other drug targets in animals (Lippincott Williams & Wilkins 2007).

Phlebology - venous disease (American College of Phlebology 2007).

Photobiology - interaction of light and living organisms, specializations include: photosynthesis, vision, circadian rhythms, bioluminescence, ultraviolet radiation effects, photodynamic therapy (American Society for Photobiology 2007).

Photosynthesis Research - regulatory controls of the photosynthetic process, environmental and genetic factors on photosynthetic efficiency, molecular pathways by which nutrients are distributed within plants, factors that determine cell storage capacity, and improving plant growth by modifying gene structure and expression (United States Department of Agriculture 2005).

Phycology - algae (Phycological Society of America 2007).

Phylogenetics - reconstruction of evolutionary genealogies of species based on morphological similarities (Society of Australian Systematic Biologists 1998).

Phyloinformatics - use of computers and algorithms to manage large amounts of phylogenetic and taxonomic data for efficient retrieval (University of British Columbia 2007).

Psychophysiology-Biofeedback - recording physiological signals in real time to alter physiology (Association for Applied Psychophysiology and Biofeedback 2007).

Psychosomatic Medicine - relationships among social, psychological, and behavioral factors and bodily processes in humans and animals (American Psychosomatic Society 2006).

Pteridology - ferns (British Pteridological Society 2007).

Pulmonology - diseases of the lungs and bronchial tubes, often involving the nose, pharynx, throat, and heart (American College of Physicians 2003).

Quantitative Analyses of Behavior - development and use of mathematical formulations to characterize one or more dimensions of an obtained data set, derive predictions to be compared with data, and generate novel data analyses associated with behavior (Society for Quantitative Analysis of Behavior 2007).

Quantitative Genetics - quantification of changes in the frequency distribution of traits that cannot easily be placed in discrete phenotypic classes (Brown University [date unknown]).

Quantum Biology - biological processes involving the conversion of energy into usable forms including: light absorption, formation of excited electronic states, transfer of excitation energy, transfer of electrons and protons (University of Illinois 2006).

Quaternary Science - last two epochs in earth's history: Pleistocene and Holocene, approximately the past 1.8 - 2.4 million years (University of Massachusetts 2006).

Radiation Ecology – effects of radiation on relationships between living organisms and the environment, and the destination of radioactive elements (Henderson’s Dictionary of Biological Terms 1995).

Radiobiology – effects of radiation on living organisms (Henderson’s Dictionary of Biological Terms 1995).

Rangeland Ecology - interactions between the physical environment, plants, animals and microbes within rangeland ecosystems and how these interactions influence ecosystem dynamics such as productivity and succession (Briske 2001).

Reproductive Endocrinology - reproductive disorders of children, women, men, the mature woman, and infertility in both men and women (Society for Reproductive Endocrinology and Infertility 2007).

Reproductive Medicine - infertility, menopause, contraception, and sexuality (American Society for Reproductive Medicine 2007).

Restoration Ecology - renewing degraded, damaged, or destroyed ecosystems through active human intervention (Wikipedia 2007).

Retina Specialists - diagnosis, treatment, and research of macular and vitreoretinal diseases (European Society of Retina Specialists 2007).

Rheology - deformation and flow of matter under stress (Society of Rheology 2007).

Rheumatology - arthritis and rheumatic and musculoskeletal diseases (American College of Rheumatology 2007).

Rhinology - nose and larynx (Merriam Webster Medical Dictionary 2007).

Scatology (or coprology) - examination of animal feces to provide biological information on animal health, diet, and disease (Wikipedia 2007).

Scientific Study of Consciousness - nature, function, and mechanisms of consciousness through neuroscience and relevant disciplines (Association for the Scientific Study of Consciousness 2007).

Serology - Examination of blood serum for antibodies indicative of specific microorganisms (MedlinePlus 2006).

Shellfish Research - shellfish, including: ecology, physiology, biochemistry, pathology, aquaculture, management (National Shellfisheries Association 2007).

Silviculture - sustainable cultivation of trees for ecological and/or human needs (United States Department of Agriculture Forest Service 2007).

Sociobiology - biological basis of social behavior (Wilson 1975).

Soil Microbiology - soil-inhabiting microorganisms and their functions and activities (Sylvia 2004).

Surgical Pathology - examination of tissues removed from living patients during surgery to help diagnose a disease and determine treatment (University of Maryland Medical Center 2007).

Symbiology - symbiotic associations and their role in physiology and especially evolution of organisms (International Congress of Zoology 2000).

Synecology - ecology of groups of organisms associated as a unit (Center for Cancer Education 2007).

Synthetic Biology – design and construction of new biological parts, devices, and systems. Also includes the re-design of existing, natural biological systems for useful purposes (Synthetic Biology Community 2009).

Systematic Biology - evolutionary relationships among organisms, species, genes, ecological interactions, and geographic distributions (Society of Systematic Biologists 2007).

Systematic Botany - taxonomy, systematics, and phylogeny of vascular and nonvascular plants (BIOONE 2007).

Systems Biology - systematic examination of interactions among components of a complex biological system (Institute for Systems Biology 2007).

Systems Ecology - systematic of examination of complex interactions between life and the physical environment within a system (Peterson 2007).

Systems Neuroscience - information pathways of the central nervous system that explain behavioral functions (Massachusetts Institute of technology 2007).

Systematic Zoology - taxonomy, systematics, and biodiversity of animals, either extant or extinct (Japanese Society of Systematic Zoology 2007).

Taphonomy - process of animal / plant fossilization, includes: decomposition, post-mortem transport, burial, compaction, and other chemical, biologic, or physical activity (Cortland State University 2007).

Taxonomy – the science of classification which arranges living organisms into hierarchical groupings (Henderson’s Dictionary of Biological Terms 1995).

Teratology - causes and prevention of biological processes leading to abnormal development and birth defects at the fundamental and clinical level (Teratology Society 2007).

Theoretical Ecology - equations and probability distributions that govern the demography and biogeography of species (Wikipedia 2007).

Theriogenology - veterinary medicine of reproduction includes: physiology and pathology of male and female reproductive systems, obstetrics, gynecology, and semenology (Society for Theriogenology 2007).

Thoracic Surgery - surgery of the chest includes: heart, lung, and esophagus (Society for Thoracic Surgery 2006).

Thrombosis & Haemostasis - diagnosis and management of thrombotic and bleeding disorders and allied subjects (Australian Society of Thrombosis and Haemostasis 2006).

Thyroidology - thyroid gland (Merriam Webster's Medical Dictionary 2007).

Toxicologic Pathology - pathology as applied to: pharmacological, chemical, and environmental agents (Society for Toxicological Pathology 2006).

Toxicology – poisons and their effects on living organisms (Henderson’s Dictionary of Biological Terms 1995).

Transfusion Medicine - treatment of animals with disorders of homeostasis by the replacement of missing components in the blood (Cornell University 2007).

Traumatology - how humans become traumatized, recover from trauma, and facilitation of recovery (Traumatology Institute 2006).

Tropical Biology - conservation of biodiversity in tropical environments (Tropical Biology Association 2007).

Tropical Ecology - ecology of tropical ecosystems, education for college students, conservation of threatened species and habitats, and providing alternative employment opportunities to local people to ease stress on native ecosystems (Institute for Tropical Ecology and Conservation 2006).

Urologic Oncology - malignant genitourinary diseases (Society for Urologica Oncology 2007).

Urology - diseases of the male and female urinary tract and the male reproductive organs (American Urological Association 2007).

Vascular Biology - coronary artery disease (Vascular Biology Working Group 2007).

Vascular Surgery - surgery of arteries and veins excluding those of the brain and heart (Wikipedia 2007).

Vegetation Science - plant communities, including: spatial patterns, temporal changes, processes, ecological dynamics (JSTOR 2007).

Veterinary Anesthesiology - anesthesia and pain management for domestic and wild animals (American College of Veterinary Anesthesiologists 2005).

Veterinary Dentistry - preventative care and treatment of the teeth in domestic and wild animals (Academy of Veterinary Dentistry 2002).

Veterinary Dermatology - skin of domestic and wild animals, including: pathogenesis, diagnosis and treatment of skin diseases (Blackwell Publishing 2006).

Veterinary Internal Medicine - cardiology, neurology, and oncology of domestic and wild animals (American College of Veterinary Internal Medicine 2005).

Veterinary Microbiology - microbial (bacterial, fungal, viral) diseases of domesticated and wild animals (Elsevier 2007).

Veterinary Ophthalmology - medicine and surgery of domestic and wild animal eyes, including treatment of: cataracts, glaucoma, dry eye, corneal ulceration, tumors of the eye, eyelid defects, inflammation of the eye and surrounding tissues, retinal degeneration (Animal Eye Care 2005).

Veterinary Parasitologists - disease prevention, pathology, treatment, epidemiology, and control of parasites in domestic and wild animals (Elsevier 2007).

Veterinary Pathology - natural and experimental disease of domestic and wild animals (American College of Veterinary Pathologists 2007).

Veterinary Toxicology - effects of chemicals on domestic and wild animals, including: biotoxins, pharmaceuticals, feed additives, radiation, and environmental agents (American Board of Veterinary Toxicology 2007).

Virology - viruses (Elsevier 2007).

Waterbird Biology - biology, conservation, and techniques to study the world's waterbirds including seabirds, wading birds, shorebirds, and waterfowl (JSTOR 2007).

Weed Science - weeds and their impacts on managed and natural ecosystems (Weed Science Society of America 2007).

Wetland Science - scientifically based management, and sustainable use of wetlands (Society of Wetland Scientists 2007).

Wildlife Management - strategies, actions, decisions and programs to benefit wildlife, wildlife values, and outdoor recreation-oriented businesses (Wildlife Management Institute 2007).

Zoogeography - past, present, and future distribution of animals and the processes that regulate these distributions (Wikipedia 2007).

Zoology - animal biology at all levels of biological organization: physiology, behavior, genetics, development, distribution, ecology and evolution of animals in all taxonomic groups (Michigan State University 2005).

Zoonomy - physiology of animals (Henderson's Dictionary of Biological Terms 1995).

Zootomy - dissection and anatomy of animals (Centre for Cancer Education 2007).

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