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Clinical Veterinary Microbiology Mosby Equine Viruses The Food and Agriculture Organization of the United Nations has recently estimated that the world equid population exceeds 110 million. Working equids (horses, ponies, donkeys, and mules) remain essential to ensure the livelihood of poor communities around the world. In many developed countries, the equine industry has significant economical weight, with around 7 million horses in Europe alone. The close relationship between humans and equids and the fact that the athlete horse is the terrestrial mammal that travels the most worldwide after humans are important elements to consider in the transmission of pathogens and diseases, amongst equids and to other species. The potential effect of climate change on vector ecology and vector-borne diseases is also of concern for both human and animal health. In this Special Issue, we intend to explore our understanding of a panel of equine viruses, looking at their pathogenicity, their importance in terms of welfare and potential association with diseases, their economic importance and impact on performance, and how their identification can be helped by new technologies and methods. Infectious Diseases of the Horse Diagnosis, pathology, management, and public health CRC Press A clinician and a pathologist have collaborated to produce this thorough and balanced account of infectious diseases affecting horses. The book evaluates the latest diagnostic aids, including rapid

developments in molecular biology, while emphasising that they are no substitute for clinical observation and skills. The majority of equine infectious diseases Pathogenesis of Bacterial Infections in Animals Wiley-Blackwell This much-anticipated third edition again consolidates the knowledge of more than twenty experts on pathogenesis of animal disease caused by various species or groups of bacteria. Emphasizing pathogenic events at the molecular and cellular levels, the editors and contributors place these developments in the context of the overall picture of disease. Pathogenesis of Bacterial Infections in Animals, Third edition, updates and expands the content of the second edition and includes cutting-edge information from the most current research. Comments on previous editions: "...highly recommended." --The Veterinary Record "...a comprehensive, complete and easy-to-use source of information." --Veterinary Microbiology "...recommended for graduate students and specialists in microbiology, pathology and infectious disease." --U.S. Animal Health Association Newsletter "...a wonderful book." --Journal of the American Veterinary Medical Association "...highly recommended." --The Cornell Veterinarian Graduate students, faculty, researchers, and specialists in microbiology, pathology, and infectious diseases will benefit from this highly-detailed and expanded edition of a popular and well-read veterinary text. Practical Handbook of Microbiology CRC Press Practical Handbook of Microbiology, 4th edition provides basic, clear and concise knowledge and practical information about working with microorganisms. Useful to anyone interested in microbes, the book is intended to especially benefit four groups: trained microbiologists working within one specific area of microbiology; people with training in other disciplines, and use microorganisms as a tool or "chemical reagent"; business people evaluating investments in microbiology focused companies; and an emerging group, people in occupations and trades that might have limited training in microbiology, but who require specific practical information. Key Features Provides a comprehensive compendium of basic information on microorganisms—from classical microbiology to genomics. Includes coverage of disease-causing bacteria, bacterial viruses (phage), and the use of phage for treating diseases, and added coverage of extremophiles. Features comprehensive coverage of antimicrobial agents, including chapters on anti-fungals and anti-virals. Covers the Microbiome, gene editing with CRISPR, Parasites, Fungi, and Animal Viruses. Adds numerous chapters especially intended for professionals such as healthcare and industrial professionals, environmental scientists and ecologists, teachers, and businesspeople. Includes comprehensive survey table of Clinical, Commercial, and Research-Model bacteria. Antimicrobial Resistance A One Health Perspective BoD - Books on Demand Tackling the realities of the antimicrobial resistance (AMR) situation today is no longer uncommon. Many battles have been fought in the past since the discovery of antibiotics between man and microbes. In the tussle of new antibiotic modifications, the transmission of resistant genes, both vertically and horizontally unveils yet another resistant attribute for the

microbe, for it only to be faced with a more powerful, wide spectrum antibiotic; the cycle continues-and the winner is yet to be known. This book aims to provide some insight into various molecular mechanisms, agricultural mitigation methods, and the One Health applications to maybe, just maybe, tip the scales towards us. **Lumpy Skin Disease Springer** This book provides a comprehensive but concise overview on the economically important emerging cattle pox virus derived Lumpy Skin Disease, including the characteristics of causative agent, description of clinical signs in cattle, pathology and histopathology, immunity, geographical distribution, epidemiology and transmission pathways, control and eradication of the disease. In addition the recent developments in vaccination, mathematical modeling and risk assessment are discussed. Lumpy Skin Disease currently spreads aggressively across the Middle and Near East. The first incursion to the European Union territory occurred in Greece in autumn 2015. The book targets clinicians and field veterinarians in Lumpy Skin Disease affected regions, veterinary authorities as well as advanced students in veterinary medicine and virology. **Bluetongue Academic Press** The third volume in the Institute of Animal Health (IAH) **Biology of Animal Infections Series**, Bluetongue discusses one of the most economically important diseases of domesticated livestock. Affecting primarily sheep particularly the improved mutton and wool breeds, it is now endemic in Africa, India, the Middle and Far East, Australia and the Americas, and over the last six years has caused a series of outbreaks throughout the Mediterranean region and central Europe. Bluetongue represent a paradigm not only for the other orbiviruses (such as African horse sickness virus, which shares the same vector species) but also for other insect transmitted diseases, including those of humans. The only single definitive work that provides both historical and up to date data on the disease Describes the latest developments in epidemiological modelling, molecular epidemiology and vaccine development, as well as explaining the current global epidemiology of the disease Outlines the importance and possible mechanisms of overwintering, and the impact of global warming on the vectors and virus distribution **Genetic Diversity in Microorganisms IntechOpen** Genetic Diversity in Microorganisms presents chapters revealing the magnitude of genetic diversity of microorganisms living in different environmental conditions. The complexity and diversity of microbial populations is by far the highest among all living organisms. The diversity of microbial communities and their ecologic roles are being explored in soil, water, on plants and in animals, and in extreme environments such as the arctic deep-sea vents or high saline lakes. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in microorganisms. The purpose of the book is to provide a glimpse into the dynamic process of genetic diversity of microorganisms by presenting the thoughts of scientists who are engaged in the generation of new ideas and techniques employed for the assessment of genetic diversity, often from very different perspectives. The book should prove useful to students, researchers, and experts in

the area of microbial phylogeny, genetic diversity, and molecular biology. **Helicobacter Pylori in the 21st Century CABI** *Helicobacter pylori* is a globally significant pathogen that infects half of the population of the world. Providing a broad overview of the understanding of this pathogen, this book explores a range of topics including virulence factors, vaccine development and obstacles, epidemiology, antibiotic resistance and the role of Nod receptors. **Arthropods as Vectors of Emerging Diseases Springer Science & Business Media** Global warming and globalization are the buzzwords of our time. They have nearly reached a religious status and those who deny their existence are considered modern heretics. Nevertheless, the earth has become an overcrowded village, traversable within a single day. Thus it is hardly surprising that besides persons and goods also agents of disease are easily transported daily from one end of the world to the other, threatening the health and lives of billions of humans and their animals. Agents of diseases (prions, viruses, bacteria, fungi and parasites) are not only transmitted by body contact or direct exchange of bodily fluids, but also by means of vectors which belong to the groups of licking or blood-sucking arthropods (mites, ticks, insects) that live close to humans and their houses. Without a doubt the recently accelerating globalization supports the import of agents of disease into countries where they never had been or where they had long since been eradicated, leading to a false sense of living on a "safe island." These newly imported or reintroduced diseases - called "emerging diseases" - may lead to severe outbreaks in cases where the countries are not prepared to combat them, or in cases where viruses are introduced that cannot be controlled by medications or vaccines. Arthropods are well known vectors for the spread of diseases. Thus their invasion from foreign countries and their spreading close to human dwellings must be blocked everywhere (in donor and receptor countries) using safe and effective measures. This book presents reviews on examples of such arthropod-borne emerging diseases that lurk on the fringes of our crowded megacities. The following topics show that there is an ongoing invasion of potential vectors and that control measures must be used now in order to avoid disastrous outbreaks of mass diseases. **Microbial Biofilms Methods and Protocols Humana Press** The discovery that most of the chronic infections in humans, including the oral, lung, vaginal and foreign body-associated infections, are biofilm-based, has prompted the need to design new and properly focused preventive and therapeutic strategies for these diseases. "Microbial Biofilms: Methods and Protocols "provides a detailed description of the currently available methods and protocols to investigate bacterial and fungal biofilms, exhaustively illustrated and critically annotated in 25 chapters written by authors well known for their experience in the respective fields. The book has joined together microbiologists and specialists in infectious diseases, hygiene and public health involved in exploring different aspects of microbial biofilms as well as in designing new methods and/or developing innovative laboratory protocols. Written in the successful "Methods in Molecular Biology" series format, chapters include

introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, "Microbial Biofilms: Methods and Protocols "presents readers with the most established and validated experimental procedures to investigate microbial biofilms. Ethical Issues in Behavioral Neuroscience Springer Behavioral neuroscience encompasses the disciplines of neurobiology and psychology to study mechanisms of behavior. This volume provides a contemporary overview of the current state of how ethics informs behavioral neuroscience research. There is dual emphasis on ethical challenges in experimental animal approaches and in clinical and nonclinical research involving human participants. Christensen's Physics of Diagnostic Radiology Lippincott Williams & Wilkins The Fourth Edition of this text provides a clear understanding of the physics principles essential to getting maximum diagnostic value from the full range of current and emerging imaging technologies. Updated material added in areas such as x-ray generators (solid-state devices), xerography (liquid toner), CT scanners (fast-imaging technology) and ultrasound (color Doppler). Oceans and Health: Pathogens in the Marine Environment Springer Science & Business Media It is surprising how little is actually known about the fate of wastewater bacteria once they enter the sea. This wide-ranging work is one of the first to unravel the mechanisms determining bacterial sensitivity or survival under these conditions. Herpesvirus Disease of Salmonids Brachiaria Biology, Agronomy, and Improvement CIAT Identifying and naming Brachiaria species. Morphology, taxonomy, and natural distribution of Brachiaria (Trin.) Griseb. Natural variation in Brachiaria and existing germplasm collections. The agronomy and physiology of Brachiaria species. National requirements of Brachiaria and adaptation to acid soils. Nutrient cycling and environmental impact of Brachiaria Pastures. Pests and diseases of Brachiaria species. Nutritional quality and animal production of Brachiaria pastures. Reproductive physiology, seed production, and seed quality of Brachiaria. Seed production: perspective from the Brazilian private sector. Genetic, cytogenetics, and reproductive biology of Brachiaria. Manipulation of apomixis in Brachiaria breeding. Theoretical potential of biotechniques in crop improvement. Application of biotechnology to Brachiaria. Regional experience with Brachiaria: Tropical America-humid lowlands. Regional experience with Brachiaria: Tropical America-savannas. Regional experience with Brachiaria: Sub-savannas Africa. Regional experience with Brachiaria: Asia, the South Pacific, and Australia. Reports of working groups. Small Animal Soft Tissue Surgery John Wiley & Sons Small Animal Soft Tissue Surgery Small Animal Soft Tissue Surgery is a comprehensive, in-depth resource for well-referenced, current information on small animal soft tissue surgery. Offering detailed surgical techniques in a well-illustrated, easy-to-follow format, the book covers the full range of surgically treated diseases and syndromes, with video clips and slideshows to demonstrate surgical procedures on an accompanying website. Chapters

are written by the leading experts in surgery, internal medicine, radiology, and critical care, presenting information based on a review of the most recent literature. Divided into chapters by body system, each section begins with a brief review of the anatomy and physiology, with pathophysiology, diagnosis, treatment, and prognosis described in detail. Original illustrations and clinical photographs accompany the description of surgical techniques, and an evidence-based approach is incorporated throughout. **Small Animal Soft Tissue Surgery** is an essential reference for small animal surgeons, residents, and practitioners performing soft tissue surgery. **KEY FEATURES** Offers a detailed, evidence-based reference entirely focused on small animal soft tissue surgery Relies on the very latest literature to present the current state of the art Draws on information from surgery, internal medicine, radiology, and critical care, with contributions from experts in each area Provides detailed surgical techniques with specially commissioned, high quality line drawings Includes a website with video clips and slideshows demonstrating soft tissue procedures. **New and Emerging Proteomic Techniques** Springer Science & Business Media Leading researchers and innovators describe in step-by-step detail the latest techniques that promise to significantly impact the practice of proteomics, as well as its success in developing novel clinical agents. The methods span the entire spectrum of top-down and bottom-up approaches, including microarrays, gels, chromatography, and affinity separations, and address every aspect of the human proteome, both quantitatively and qualitatively. The techniques of protein detection utilized are diverse and range from fluorescence and resonance light scattering to surface plasmon resonance and mass spectrometry. The protocols follow the successful **Methods in Molecular Biology™** series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. **Mastitis Control in Dairy Herds** CABI This is the second edition of the book, containing 16 chapters which focus on prevention and control of mastitis as well as on the different factors that lead to mastitis resulting in poor milk quality. The book contains two appendices, the first contains a liner line chart and the second contains parlour audit. An index is also provided. **Insights from Veterinary Medicine Virus Infections of Ruminants Virus Infections of Vertebrates** Series Elsevier Hardbound. As its title suggests, this book is intended to give exhaustive information on virus infections and diseases occurring in ruminants. Each virus and corresponding disease is described in a separate chapter, and the chapters are ordered according to current virus classification. Contributing authors are experts on the virus and disease they describe. Where necessary, the text is accompanied by tables and pictures. The accent is placed on diagnosis of the disease by clinical observations including epizootological data. There is also a description of the laboratory procedures of diagnostic virology, and suggestions concerning control measures (e.g. vaccination and/or eradication policy). This book should prove indispensable to: the

practising veterinarian, by facilitating recognition of a viral disease, and giving advice on collecting appropriate specimens for laboratory investigation; the veterinary virologist by aiding the choice of appropriate Tungstate Crystals Proceedings of the International Workshop on Tungstate Crystals, Rome, October 12-14, 1998 Università La Sapienza Introduction to Wildland Fire Fire Management in the United States Wiley-Interscience This book covers the fundamental physics and chemistry of fire, fire behavior, wildland fuels, the interactions of fires and weather, ecological effects of fires, the cultural and institutional framework of fire management, planning efforts for fire management, suppression strategies, prescribed fires, and global fire management. Copyright © Libri GmbH. All rights reserved. Ion Channels Methods and Protocols Springer Science & Business Media The diverse applications in this volume range from the study of allosteric regulation of ion channel activity using a classic mutagenesis approach, to the study of channel subunit stoichiometry using a novel biophysical approach based on fluorescence resonance energy transfer. Highlights include methods for heterologous expression of ion channels in cells, for determining channel structure-function, and for studying channel regulation. Complications in Small Animal Surgery John Wiley & Sons Complications in Small Animal Surgery provides a complete reference to diagnosing, managing, and treating surgical complications, with information following a standardized format for ease of use. • Presents comprehensive information on diagnosing, managing, and preventing surgical complications using an accessible format • Offers a well-defined, thoroughly illustrated format to maximize practical value, with algorithms, tables, practical tips, and many images throughout • Covers common and uncommon complications in all body systems • Serves as a reference to recent literature relevant to each complication • Includes access to a companion website with videos, figures from the book available for download into PowerPoint, and linked references at www.wiley.com/go/griffon/complications Safety in Science Education Stationery Office Books (TSO) Veterinary Reproductive Ultrasonography Schlütersche A guide to the reproductive problems facing the busy veterinary practitioner in every day practice. The pregnant and non-pregnant uterus, as well as pathologic changes of the reproductive system are described and explained. The book is superbly illustrated and covers all the important domestic large and small animals: dogs, cats, horses, cows, sheep, goats and pigs. Combating Fungal Infections Problems and Remedy Springer Fungi are eukaryotic microorganisms that are closely related to humans at cellular level. Human fungal pathogens belong to various classes of fungi, mainly zygo- cetes, ascomycetes, basidiomycetes, and deuteromycetes. In recent years, fungal infections have dramatically increased as a result of improved diagnosis, high frequency of catheterization, instrumentation, etc. However, the main cause remains the increasing number of immunosuppressed patients, mostly because of HIV infection and indiscriminate usage of antineoplastic and immunosuppressive agents, broad-spectrum antibiotics and prosthetic

devices, and grafts in clinical settings. Presently available means of combating fungal infections are still weak and clumsy compared to control of bacterial infection. The present scenario of antifungal therapy is still based on two classes of antifungal drugs (polyenes and azoles). These drugs are effective in many cases, but display toxicity and limited spectrum of efficacy. The recent trend towards emergence of drug-resistant isolates in the clinic is an additional problem. In recent years, a few new antifungal drugs have entered the clinics, but they are expected to undergo same fate as the older antifungal drugs. The application of fungal genomics offers an unparalleled opportunity to develop novel antifungal drugs. However, it is too early to expect any novel drugs, as the antifungal drug discovery program is in the stage of infancy. Interestingly, several novel antifungal drug targets have been identified and validated.

Keeping Livestock Healthy Equine Clinical Pathology John Wiley & Sons *Equine Clinical Pathology* is the first complete resource for hematology and clinical chemistry in horses. Encompassing the basic principles and advanced interpretation, the book's single-species approach to pathology allows for focused coverage of the unique disease characteristics of equids. *Equine Clinical Pathology* is equally useful for anyone using clinical pathology as a diagnostic tool, from beginning student to experienced specialist. The heart of the book is organized by body system, making it easy to find and apply information. Chapters cover general laboratory medicine, including instruments and techniques, hematology, and proteins as well as specific organs such as the kidney and liver. *Equine Clinical Pathology* is a useful bench-side reference for anyone involved in laboratory medicine for the horse. Key features

- Presents a comprehensive reference for clinical pathology in horses
- Offers an equal emphasis on hematology and clinical chemistry
- Encompasses basic instrumentation and techniques to advanced interpretation
- Provides thorough coverage of the unique disease characteristics in the horse
- Uses a logical body system organization for ease of access

PCR Detection of Microbial Pathogens Springer Science & Business Media Hands-on laboratory experts present a set of "classic" PCR-based methods for the identification and detection of important animal and food microbial pathogens, including several zoonotic agents. These proven techniques can be precisely applied to a wide variety of microbes, among them *Campylobacter* spp., *Chlamydiae*, toxigenic *Clostridia*, *Escherichia coli* (STEC), *Listeria monocytogenes*, mycoplasmas, salmonellae, and *Yersinia enterocolitica*. Additional chapters review the specificity and performance of diagnostic PCR analysis, the pre-PCR processing of samples, the critical aspects of standardizing PCR methods, and the general issues involved in using PCR technology for microbial diagnosis.

Wavelets for Computer Graphics Theory and Applications Morgan Kaufmann This distinctly accessible introduction to wavelets provides computer graphics professionals and researchers with the mathematical foundations for understanding and applying this powerful tool. Wavelets are rapidly becoming a core technique in computer graphics, with applications for image editing and compression

Automatic level-of-detail control for editing and rendering curves and surfaces Surface reconstruction from contours Physical simulation for global illumination and animation Stressing intuition and clarity, this book offers a solid understanding of the theory of wavelets and their proven applications in computer graphics. Although previous introductions to wavelets have presented an elegant mathematical framework, that framework is too restrictive to apply to many problems in graphics. In contrast, this book focuses on a generalized theory that naturally accommodates the kinds of objects that commonly arise in computer graphics, including images, open curves, and surfaces of arbitrary topology. This book also contains a foreword by Ingrid Daubechies and an appendix covering the necessary background material in linear algebra. Cryptosporidium and Cryptosporidiosis CRC Press From the microscopic observation of infection to the widespread application of molecular techniques in taxonomy and epidemiology, to the genome sequencing of two major species and advances in biochemistry, phylogeny, and water treatment, new information on this fascinating genus continues to mount as we discover and utilize the latest scientific te Veterinary Ophthalmology Two Volume Set John Wiley & Sons Veterinary Ophthalmology, Fifth Edition is a fully updated version of the gold-standard reference for diseases and treatment of the animal eye in veterinary medicine. With an internationally renowned list of contributing authors, the book has been revised and expanded to incorporate the most up-to-date research and information. New chapters cover ophthalmic genetics and DNA tests, microsurgery, photography, camelid ophthalmology, and rabbit ophthalmology, and existing chapters feature expanded coverage of noninvasive imaging techniques, feline ophthalmology, equine ophthalmology, and marine mammals and penguins. The book retains its classic structure, with sections on basic vision sciences, the foundations of clinical ophthalmology, canine ophthalmology, and special ophthalmology, which encompasses specific coverage of most commonly treated species and chapters on neuro-ophthalmology and systemic diseases. A companion website offers the images from the book available for download in PowerPoint and the references linked to CrossRef. Veterinary Ophthalmology remains the most comprehensive resource for authoritative information on veterinary ophthalmology worldwide and is a key reference for anyone interested in veterinary or comparative ophthalmology. Practical Microbiology BI Publications Pvt Ltd Diagnosis and Control of Johne's Disease National Academies Press Johne's Disease is a chronic, progressive intestinal disease caused by infection with Mycobacterium avium subspecies paratuberculosis (Map) that affects primarily ruminant animals. In recent decades there has been growing concern over the lack of effective control of this disease and questions have arisen regarding the possibility that Map infection could be a cause of some cases of Crohn's disease in humans. This report presents a broad outline of the steps that should be taken to control Johne's disease, reduce the spread of Map, and minimize effects of the disease in animals. The report also describes the

weaknesses of our current research agenda and provides recommendations for a new research strategy to resolve the question of whether there is a link between Johne's and Crohn's diseases. **Robinson's Current Therapy in Equine Medicine - E-Book Elsevier Health Sciences** With coverage of current issues and the latest therapeutic advances, **Robinson's Current Therapy in Equine Medicine, Volume 7** provides a concise, all-new reference for the management of equine disorders and conditions. Chapters emphasize the practical aspects of diagnosis and treatment and provide details for therapeutic regimens. This new volume brings you thorough coverage and authoritative advice on selected topics in areas that have seen significant advances in the last five years. Cutting-edge topics include emerging and exotic infectious diseases that may endanger horses in North America; biosecurity strategies; imaging updates; medical genetics; multimodal pain management; and regenerative, geriatric, and oncologic medicine. A logical body-system organization will save you time in finding the information you need. From well-known editors Kim Sprayberry and N. Edward Robinson, with chapters written by nearly 200 equine experts, this invaluable reference provides unparalleled guidance on the latest issues in equine medicine. Key topics include all-new coverage of the latest developments in imaging, biosecurity strategies for individual horse owners and owners of commercial farms and stables, diseases affecting horses at various ages, and a review of colic and other GI tract conditions. A recognized panel of nearly 200 expert contributors represents thriving private equine practices, referral hospitals, and academia, and provides insight on challenges, developments, and differing perspectives from around the world. A succinct approach is used to discuss pathophysiology and diagnosis, but therapeutics are covered in detail. The Current Therapy format focuses on emerging trends, treatment protocols, and diagnostic updates new to the field, providing timely information on the latest advances in equine medicine. A body systems organization makes it easy to find solutions for specific disorders. Suggested readings at the end of each chapter cite peer-reviewed articles and other sources for further research and study. **ALL-NEW** topics provide updates on infectious diseases, including herpesvirus, equine granulocytic anaplasmosis, and lawsonia infection and proliferative enteropathy; pain diagnosis and multimodal management; management of thoracic and airway trauma, imaging, endoscopy, and other diagnostic procedures for the acute abdomen; and neurologic injury. 212 concise, **NEW** chapters include both a succinct guide to diagnosis of disorders and a detailed discussion of therapy. **NEW** images demonstrate advances in various imaging techniques. Thoroughly updated drug appendices, including all-new coverage of drug dosages for donkeys and mules, provide a handy, quick reference for the clinical setting. **Laboratory Manual in General Microbiology Franklin Classics** This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the

United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Ticks of Domestic Animals in the Mediterranean Region A Guide to Identification of Species