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# Virology Journal Elsevier

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Classification and Nomenclature of Viruses  
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**CANTRELL ISRAEL**


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*Health Measurement Scales* Springer  
Nature

Drug Utilization Research (DUR) is an eclectic scientific discipline, integrating descriptive and analytical methods for the quantification, understanding and evaluation of the processes of prescribing, dispensing and consumption of medicines and for the testing of interventions to enhance the quality of these processes. The discipline is closely related and linked mainly to the broader field of pharmacoepidemiology, but also to health outcomes research, pharmacovigilance and health economics. Drug Utilization Research is a unique, practical guide to the assessment and evaluation of prescribing practices and to interventions to improve the use of medicines in populations. Edited by an international expert team from the International Society for Pharmacoepidemiology (ISPE), DUR is the only title to cover both the methodology and applications of drug utilization research and covers areas such as health policy, specific populations, therapeutics and adherence.

*Virus Taxonomy* Academic Press

The seminal text *Plant Virology* is now in its fifth edition. It has been 10 years since the publication of the fourth edition, during which there has been an explosion of conceptual and factual advances. The fifth edition of *Plant Virology* updates and revises many details of the previous edition while retaining the important earlier results that constitute the field's conceptual foundation. Revamped art, along with fully updated references and increased focus on molecular biology, transgenic

resistance, aphid transmission, and new, cutting-edge topics, bring the volume up to date and maintain its value as an essential reference for researchers and students in the field. Thumbnail sketches of each genera and family groups  
Genome maps of all genera for which they are known  
Genetic engineered resistance strategies for virus disease control  
Latest understanding of virus interactions with plants, including gene silencing  
Interactions between viruses and insect, fungal, and nematode vectors  
Contains over 300 full-color illustrations

**Edwards and Ewing's Identification of Enterobacteriaceae** Academic Press

To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole "diseases-centric and individual viral diseases selected based on "epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (*Fish viruses and fish viral diseases* 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. *Aquaculture Virology* provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the

reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology From Basics to Systems Biology Elsevier Health Sciences

Gigantism and Acromegaly brings together pituitary experts, taking readers from bench research, to genetic analysis, clinical analysis, and new therapeutic approaches. This book serves as a reference for growth hormone over-secretion and its diagnosis and treatment for endocrinologists, pediatricians, internists, and neurosurgeons, and for geneticists. Pharmaceutical companies may use it as a reference for drug development and research. Students, residents and fellows in medicine and endocrinology and genetics will also find it valuable as it provides a single up-to-date review of the molecular biology of gigantism and acromegaly as well as recommended approaches to evaluation and management. Acromegaly is a rare

pituitary disorder that slowly changes its adult victim's appearance over time: larger hands and feet, bigger jaw, forehead, nose, and lips. Generally, a benign pituitary tumor is the cause and symptoms of acromegaly can vary from patient to patient, making a diagnosis difficult and prolonging suffering for years. Early detection is key in the management of acromegaly as the pathologic effects of increased growth hormone (GH) production are progressive and can be life-threatening as the result of associated cardiovascular, cerebrovascular, and respiratory disorders and malignancies. Accessible, up-to-date overview of the characteristics, state-of-the-art diagnostic procedures, and management of acromegaly and gigantism Provides a unique compendium of endocrinology, genetics, clinical diagnosis and therapeutics Contains contributions from internationally known experts who have treated patients with acromegaly and gigantism

*Methods in Microbiology* Butterworth-Heinemann

Brought to you by the expert editor team from Principles and Practice of Infectious Diseases, this brand-new handbook provides a digestible summary of the 241 disease-oriented chapters contained within the parent text. Boasting an exceptionally templated design with relevant tables and illustrations, it distills the essential, up-to-date, practical information available in infectious disease. This high-yield manual-style reference will prove useful for a wide variety of practitioners looking for quick, practical, and current infectious disease information. Provides a digestible summary of the 241 disease-oriented chapters contained within Principles and Practice of Infectious Diseases, 8th

Edition (ISBN: 978-1-4557-4801-3). Covers hot topics in infectious disease, such as Hepatitis B and C, Influenza, Measles, Papillomavirus, HIV, MERS, and C. difficile. Templated design includes relevant tables and illustrations. Ideal for the non-infectious disease specialist, including primary care physicians, physician assistants, nurse practitioners, students, residents, pharmacists, emergency physicians, and urgent care physicians.

*Virus Structure and Assembly* World Scientific

Part I: Introduction to Universal Virus Taxonomy. Part II: The Viruses. A Glossary of Abbreviations and Terms. Taxa Listed by Nucleic Acid and Size of the Genome. The Virus Diagrams. The Virus Particle Structures. The Order of Presentation of the Viruses. The Double Stranded DNA Viruses. The Single Stranded DNA Viruses. The DNA and RNA Reverse Transcribing Viruses. The Double Stranded RNA Viruses. The Negative Sense Single Stranded RNA Viruses. The Positive Sense Single Stranded RNA Viruses. The Unassigned Viruses. The Subviral Agents. Viroids. Satellites. Vertebrate Prions. Fungal Prions. Part III: The International Committee on Taxonomy of Viruses. Officers and Members of the ICTV, 1999-2002. The Statutes of the ICTV, 1998. The Code of Virus Classification and Nomenclature, 1998. Part IV: Indexes. Virus Indexes. Taxonomic Index.

Plant Virology Oxford University Press  
The foremost text in this complex and fast-changing field, *Medical Microbiology*, 9th Edition, provides concise, up-to-date, and understandable explanations of key concepts in medical microbiology, immunology, and the microbes that cause human disease. Clear, engaging coverage of basic

principles, immunology, laboratory diagnosis, bacteriology, virology, mycology, and parasitology help you master the essentials of microbiology?effectively preparing you for your coursework, exams, and beyond. Features significant new information on the human microbiome and its influence on the immune and other body systems, and new developments in microbial diagnosis, treatment, diseases, and pathogens. Updates every chapter with state-of-the-art information and current literature citations. Summarizes detailed information in tabular format rather than in lengthy text. Provides review questions at the end of each chapter that correlate basic science with clinical practice. Features clinical cases that illustrate the epidemiology, diagnosis, and treatment of infectious diseases. Introduces microbe chapters with summaries and trigger words for easy review. Highlights the text with clear, colorful figures, clinical photographs, and images that help you visualize the clinical presentation of infections. Offers additional study features online, including 200 self-assessment questions, microscopic images of the microbes, videos, and a new integrating chapter that provides hyperlinks between the microbes, the organ systems that they affect, and their diseases. Evolve Instructor site with an image and video collection is available to instructors through their Elsevier sales rep or via request at: <https://evolve.elsevier.com>.  
Virus Taxonomy Elsevier Health Sciences  
The purpose of this volume is to highlight some current areas of poxvirus research which are likely to be particularly fruitful in the upcoming few years. The first chapter, by Drs. Condit and Niles, discusses poxvirus genetics.

Work in this area has provided mutants, produced practical procedures to simplify the manipulation of viral genes, and generated information about the molecular architecture and organization of genes characteristic of pox viruses. One of the most intensively studied regions of the viral genome is the HindIII D region of vaccinia, in which a combination of classical and molecular genetic analysis of the region has been particularly revealing. Within this region are open reading frames, some of which are expressed early and others late, organized in a fashion which is now known to be typical of these viruses. Other studies, related to temperature sensitive, drug resistant, and drug dependent mutants, are also discussed. Each of the other reviews included in this volume summarizes areas of research which have depended heavily on the genetics of the system. The intracellular site of a poxvirus infection is mostly, if not exclusively, limited to the cytoplasm which dictates several interesting biological ramifications. For example, poxvirus transcription must occur in the cytoplasm, rather than in the nucleus. The virus copes with this situation by incorporating into the virion the enzymatic machinery necessary to initiate transcription from input virus.

WHO Classification of Tumours of the Urinary System and Male Genital Organs  
Academic Press

A new edition of this practical guide for clinicians who are developing tools to measure subjective states, attitudes, or non-tangible outcomes in their patients, suitable for those who have no knowledge of statistics.

**Classification and Nomenclature of Viruses : Ninth Report of the International Committee on Taxonomy of Viruses** Elsevier

This volume discusses traditional and current techniques that are successfully used to diagnose plant viruses and study molecular plant-virus interactions. The chapters in this book cover topics such as in vivo detection of double-stranded RNA, developing rice mutant using CRISPR-Cas9-based technology, protein-protein interaction assays, purification and transfection of protoplasts, protocols for gene silencing, and transmission electron microscopy. Written in the highly 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 laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and practical, *Plant Virology: Methods and Protocols* is a valuable resource for plant pathologists, microbiologists, virologists, graduate students, and teachers who are interested in learning more about the developments in plant virology research.

**Drug Utilization Research** Springer Science & Business Media  
Virology Division. International Union of Microbiological Societies.

Textbook of Medical Virology Humana  
This essential volume explores a variety of tools and protocols of structure-based (homology modeling, molecular docking, molecular dynamics, protein-protein interaction network) and ligand-based (pharmacophore mapping, quantitative structure-activity relationships or QSARs) drug design for ranking and prioritization of candidate molecules in search of effective treatment strategy against coronaviruses. Beginning with an introductory section that discusses coronavirus interactions with humanity and COVID-19 in particular, the book then continues with sections on tools

and methodologies, literature reports and case studies, as well as online tools and databases that can be used for computational anti-coronavirus drug research. Written for the Methods in Pharmacology and Toxicology series, chapters include the kind of practical detail and implementation advice that ensures high quality results in the lab. Comprehensive and timely, *In Silico Modeling of Drugs Against Coronaviruses: Computational Tools and Protocols* is an ideal reference for researchers working on the development of novel anti-coronavirus drugs for SARS-CoV-2 and for coronaviruses that will likely appear in the future.

#### Human Virology Elsevier

*Animal Virology* consists of papers presented in a meeting which considered broad issues and advances in animal virology and tumor viruses. This book is divided into nine parts, representing the nine sessions of the meeting. Five of the nine sections deal particularly with viruses known to be oncogenic in animals, and one of these covers explicitly human oncornaviruses. The other four sections describe the processes common to all viruses: replication, protein synthesis, and persistence, wherein emphasis is given to negative strand viruses and plant viruses.

#### **Eighth Edition** Elsevier

*WHO Classification of Tumours of the Urinary System and Male Genital Organs* is the eighth volume in the 4th Edition of the WHO series on histological and genetic typing of human tumours. This authoritative, concise reference book provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies monitoring response to therapy and clinical

outcome. Diagnostic criteria, pathological features, and associated genetic alterations are described in a strictly disease-oriented manner.

Sections on all recognized neoplasms and their variants include new ICD-O codes, epidemiology, clinical features, macroscopy, pathology, genetics, and prognosis and predictive factors. It contains numerous color photographs, MRIs, ultrasound images, CT scans, charts and references.

#### Encyclopedia of Virology Elsevier

*Encyclopedia of Virology, Third Edition* continues its success as the largest single reference source of current research in virology. Unique in its use of concise "mini-review" articles, this praised work covers biological, molecular, and medical topics concerning viruses in animals, plants, bacteria and insects. Now in five volumes, this new edition has been extensively revised and updated to reflect the 50% increase in identified and accepted viruses since the year 2000. With over 25% new chapters and over 1000 illustrations, this edition takes into account the new developments in virology research by including information on new emerging diseases such as avian flu, SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism. Edited by leading Virologists Mahy and van Regenmortel, this third edition remains the number one all-inclusive source of information for virology researchers, students, and reference departments of academic, medical, and corporate libraries. Extensive coverage on AIDS and HIV, viral immunology and vaccines, the economic importance and control of virus diseases, and the origin, history, evolution and phylogeny of viruses - NEW! Four color throughout -NEW!

Sections on future perspectives that show the direction of current research  
 25% NEW articles Glossary of key terms for easy referencing Information on viruses of human clinical interest, including the virus causing SARS -NEW!  
 More than 20% NEW virus classifications The most recent information from the 8th International Committee on Taxonomy and Classification of Viruses - NEW! Recommendations for further reading and a list of other relevant entries

*Encyclopedia of Virology* Butterworth-Heinemann

Viral Ecology defines and explains the ecology of viruses by examining their interactions with their hosting species, including the types of transmission cycles that have evolved, encompassing principal and alternate hosts, vehicles, and vectors. It examines virology from an organismal biology approach, focusing on the concept that viral infections represent areas of overlap in the ecology of viruses, their hosts, and their vectors. The relationship between viruses and their hosting species The concept that viral interactions with their hosts represents a highly evolved aspect of organismal biology The types of transmission cycles which exist for viruses, including their hosts, vectors, and vehicles The concept that viral infections represent areas of overlap in the ecology of the viruses, their hosts, and their vectors

Protein Kinase Factsbook Oxford University Press, USA

Viral Pathogenesis: From Basics to Systems Biology, Third Edition, has been thoroughly updated to cover topical advances in the evolving field of viral pathogenesis, while also providing the requisite classic foundational information for which it is recognized. The book

provides key coverage of the newfound ability to profile molecular events on a system-wide scale, which has led to a deeper understanding of virus-host interactions, host signaling and molecular-interaction networks, and the role of host genetics in determining disease outcome. In addition, the content has been augmented with short chapters on seminal breakthroughs and profiles of their progenitors, as well as short commentaries on important or controversial issues in the field. Thus, the reader will be given a view of virology research with perspectives on issues such as biomedical ethics, public health policy, and human health. In summary, the third edition will give the student a sense of the exciting new perspectives on viral pathogenesis that have been provided by recent developments in genomics, computation, modeling, and systems biology. Covers all aspects of viral infection, including viral entry, replication, and release, as well as innate and adaptive immunity and viral pathogenesis Provides a fresh perspective on the approaches used to understand how viruses cause disease Features molecular profiling techniques, whole genome sequencing, and innovative computational methods Highlights the use of contemporary approaches and the insights they provide to the field

**A Practical Guide to Their Development and Use** Oxford University Press

Published since 1953, *Advances in Virus Research* covers a diverse range of in-depth reviews providing a valuable overview of the current field of virology. The impact factor for 2006 is 3.48 placing it 7th in the highly competitive category of virology.

Methods and Protocols National

Academies Press

Molecular Virology of Human Pathogenic Viruses presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field. The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience. Each chapter will describe the viral life cycle covering the order of classification, virion and genome structure, viral proteins, life cycle, and the effect on host and an emphasis on virus-host interaction is conveyed throughout the text. Molecular Virology of Human Pathogenic Viruses provides essential information for students and professionals in virology, molecular biology, microbiology, infectious disease,

and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature. Presents viruses within their family structure Contains recommended journal articles with perspectives to put primary literature in context Includes integrated recommended reading references within each chapter Provides access to online ancillary package inclusive of annotated PowerPoint images, instructor's manual, study guide, and test bank

*In Silico Modeling of Drugs Against Coronaviruses* Elsevier

You'll find the latest on healthcare policy and financing, infectious diseases, chronic disease, and disease prevention technology.