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KEY=MANUAL - BRYAN WASHINGTON

Laboratory Manual for Principles of General Chemistry

John Wiley & Sons "The Laboratory Manual for Principles of General Chemistry has focused on the laboratory experience through each of its ten previous editions. Realizing that all experimental conclusions are not the same, each conclusion is dependent upon identifying an appropriate experimental procedure, selecting the proper apparatus, employing the proper techniques while systematically analyzing and interpreting the data, and minimizing the inherent variables associated with the student scientist. As a result of "good" data, a scientific and analytical conclusion is made which may or may not "be right," but consistent with the data. This approach has been prevalent throughout the previous ten editions of this manual"--

Laboratory Manual for Principles of General Chemistry

John Wiley & Sons This new edition of the Beran lab manual emphasizes chemical principles as well as techniques. The manual helps students understand the timing and situations for the various techniques. The Beran lab manual has long been a market leading

lab manual for general chemistry. Each experiment is presented with concise objectives, a comprehensive list of techniques, and detailed lab intros and step-by-step procedures.

Laboratory Manual for General Chemistry and Introduction to General and Organic Chemistry

Wiley

Writing Literature Reviews

A Guide for Students of the Social and Behavioral Sciences

Taylor & Francis This useful guide educates students in the preparation of literature reviews for term projects, theses, and dissertations. The authors provide numerous examples from published reviews that illustrate the guidelines discussed throughout the book. ? New to the seventh edition: ? Each chapter breaks down the larger holistic review of literature exercise into a series of smaller, manageable steps Practical instructions for navigating today's digital libraries Comprehensive discussions about digital tools, including bibliographic and plagiarism detection software Chapter activities that reflect the book's updated content New model literature reviews Online resources designed to help instructors plan and teach their courses (www.routledge.com/9780415315746).

Remote Compositional Analysis

Techniques for Understanding Spectroscopy, Mineralogy, and Geochemistry of Planetary Surfaces

Cambridge University Press Comprehensive overview of the spectroscopic, mineralogical, and geochemical techniques used in planetary remote sensing.

New Scientist

Challenges to Tackling Antimicrobial Resistance

Economic and Policy Responses

Economic and Policy Responses

OECD Publishing Antimicrobial resistance (AMR) is a biological mechanism whereby a microorganism evolves over time to develop the ability to become resistant to antimicrobial therapies such as antibiotics. The drivers of and potential solutions to AMR are complex, often spanning multiple sectors. The internationally recognized response to AMR advocates for a 'One Health' approach, which requires policies to be developed and implemented across human, animal, and environmental health.

Seizures and Epilepsy

Oxford University Press This second edition of 'Seizures and Epilepsy' is completely revised, due to tremendous advances in the understanding of the fundamental neuronal mechanisms underlying epileptic phenomena, as well as current diagnosis and treatment, which have been heavily influenced over the past several decades by seminal neuroscientific developments, particularly the introduction of molecular neurobiology, genetics, and modern neuroimaging. This resource covers a broad range of both basic and

clinical epileptology.

Progress in the Chemistry of Organic Natural Products 100

Springer The volumes of this classic series, now referred to simply as "Zechmeister" after its founder, L. Zechmeister, have appeared under the Springer Imprint ever since the series' inauguration in 1938. It is therefore not really surprising to find out that the list of contributing authors, who were awarded a Nobel Prize, is quite long: Kurt Alder, Derek H.R. Barton, George Wells Beadle, Dorothy Crowfoot-Hodgkin, Otto Diels, Hans von Euler-Chelpin, Paul Karrer, Luis Federico Leloir, Linus Pauling, Vladimir Prelog, with Walter Norman Haworth and Adolf F.J. Butenandt serving as members of the editorial board. The volumes contain contributions on various topics related to the origin, distribution, chemistry, synthesis, biochemistry, function or use of various classes of naturally occurring substances ranging from small molecules to biopolymers. Each contribution is written by a recognized authority in his field and provides a comprehensive and up-to-date review of the topic in question. Addressed to biologists, technologists and chemists alike, the series can be used by the expert as a source of information and literature citations and by the non-expert as a means of orientation in a rapidly developing discipline.

Studying Animal Languages Without Translation: An Insight from Ants

Springer The Author of this new volume on ant communication demonstrates that information theory is a valuable tool for studying the natural communication of animals. To do so, she pursues a fundamentally new approach to studying animal communication and "linguistic" capacities on the basis of measuring the rate of information transmission and the complexity of transmitted messages. Animals' communication systems and cognitive abilities have long-since been a topic of particular interest to biologists, psychologists, linguists, and many others, including researchers in the fields of robotics and artificial intelligence. The main difficulties in the analysis of animal language have to date been predominantly methodological in nature. Addressing this perennial problem, the elaborated experimental paradigm presented here has been applied to ants, and can be extended to other social species of animals that have the

need to memorize and relay complex “messages”. Accordingly, the method opens exciting new dimensions in the study of natural communications in the wild.

Gaussian Processes for Machine Learning

MIT Press A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines. Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated, and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.

EQS Structural Equations Program Manual

Evaluation of Soil Organic Matter Models

Using Existing Long-Term Datasets

Springer Science & Business Media Soil organic matter (SOM) represents a major pool of carbon within the biosphere, roughly twice than in atmospheric CO₂. SOM models embody our best understanding of soil carbon dynamics and are needed to predict how global environmental change will influence soil carbon stocks. These models are also required for evaluating the likely effectiveness of different mitigation options. The first important step towards systematically evaluating the suitability of SOM models for these

purposes is to test their simulations against real data. Since changes in SOM occur slowly, long-term datasets are required. This volume brings together leading SOM model developers and experimentalists to test SOM models using long-term datasets from diverse ecosystems, land uses and climatic zones within the temperate region.

Bioactive Marine Natural Products

Springer Science & Business Media Bioactive Marine Natural Products is the first book available that covers all aspects of bioactive marine natural products. It fills the void in the literature for bioactive marine natural products. The book covers various aspects of marine natural products and it is hoped that all the major classes of bioactive compounds are included. Different classes of marine organisms and the separation and isolation techniques are discussed. The chemistry and biology of marine toxins, peptides, alkaloids, nucleosides and prostanoids are discussed in detail. Biological, toxicological and clinical evaluations are also dealt with to ensure that the book may be adopted at any stage by any practicing organic chemist or biologist, working in academia or in R and D divisions of pharmaceutical companies. Each chapter in the book includes an abstract to highlight the major points discussed in the text and concluding remarks are given. References to books, monographs, review articles and original papers are provided at the end of each chapter.

Transforming the Workforce for Children Birth Through Age 8

A Unifying Foundation

National Academies Press Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly

looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Global Report on Diabetes

"Diabetes is a serious, chronic disease that occurs either when the pancreas does not produce enough insulin (a hormone that regulates blood sugar, or glucose), or when the body cannot effectively use the insulin it produces. Diabetes is an important public health problem, one of four priority noncommunicable diseases (NCDs) targeted for action by world leaders. Both the number of cases and the prevalence of diabetes have been steadily increasing over the past few decades. Globally, an estimated 422 million adults were living with diabetes in 2014, compared to 108 million in 1980. The global prevalence (age-standardized) of diabetes has nearly doubled since 1980, rising from 4.7% to 8.5% in the adult population. This reflects an increase in associated risk factors such as being overweight or obese. Over the past decade, diabetes prevalence has risen faster in low- and middle-income countries than in high-income countries. Diabetes caused 1.5 million deaths in 2012. Higher-than-optimal blood glucose caused an additional 2.2 million deaths, by increasing the risks of cardiovascular and other diseases. Forty-three percent of these 3.7 million deaths occur before the age of 70 years. The percentage of deaths attributable to high blood glucose or diabetes that occurs prior to age 70 is higher in low- and middle-income countries than in high-income countries. Because sophisticated laboratory tests are usually required to distinguish between type 1 diabetes (which requires insulin injections for survival) and type 2 diabetes (where the body cannot properly use the insulin it produces), separate global estimates of diabetes prevalence for type 1 and type 2 do not exist. The majority of people with diabetes are affected by type 2 diabetes. This used to occur nearly entirely among adults, but now occurs in children too."--Page 6.

New Scientist

New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

The State of Food Security and Nutrition in the World 2019

Safeguarding Against Economic Slowdowns and Downturns

United Nations The State of Food Security and Nutrition in the World gives updates on the prevalence of undernourishment globally and the absolute number of undernourished, as well as the latest estimates for a number of global nutrition targets. This latest edition looks at the role of economic slowdowns and downturns in the rise of hunger and makes policy recommendations to safeguard food security and nutrition worldwide.

The Cambridge Handbook of Animal Cognition

Cambridge University Press "Divided into six sections - communication and language, memory and recall, social cognition, social learning and teaching, numerical and quantitative abilities, and innovation and problem solving the Handbook allows readers to focus specifically on what they are interested in. Concise overviews in each section provide the history and basic concepts in each area, and are helpful for both newcomers to the field or specialists seeking to gain background in different areas. Each overview is followed by three to six entries for readers who are interested in learning more about a particular subject"--

Equity, Social Determinants and Public Health Programmes

World Health Organization This book is a collection of analyses of the social determinants of health that impact on specific health conditions. Stemming from the recommendations of the Commission on Social Determinants of Health, promising interventions to improve health equity are presented for the areas of: alcohol-related disorders, cardiovascular diseases, child health and nutrition, diabetes, food safety, maternal health, mental health, neglected tropical diseases, oral health, pregnancy outcomes, tobacco and health, tuberculosis, and violence and injuries. The book was commissioned by the Department of Ethics, Equity, Trade and Human Rights as part of the work undertaken by the Priority Public Health Conditions Knowledge Network of the Commission on Social Determinants of Health, in collaboration with 16 of the major public health programmes of WHO. In addition to this, through collaboration with the Special Programme of Research, Development and Research Training in Human Reproduction, the Special Programme for Research and Training in Tropical Diseases, and the Alliance for Health Policy and Systems Research, 13 case studies were commissioned to examine the implementation challenges in addressing social determinants of health in low-and middle-income settings.

Infertility Counseling

A Comprehensive Handbook for Clinicians

Cambridge University Press *Infertility Counseling: A Comprehensive Handbook for Clinicians*, 2nd edition, is a comprehensive, multidisciplinary textbook for all health professionals providing care for individuals facing reproductive health issues. It is the most thorough and extensive book currently available for clinicians in the field of infertility counseling, providing an exhaustive and comprehensive review of topics. It addresses both the medical and psychological aspects of infertility, reviewing assessment approaches, treatment strategies, counseling for medical conditions impacting fertility, third-party reproduction, alternative family building and post infertility counseling issues. Each chapter follows the same format: introduction, historical overview, literature review, theoretical framework, identification of clinical issues, suggestions for therapeutic interventions, and future implication. This

edition also includes extensive appendixes of clinical tools useful to the clinician, including an Internet database of resources and an extensive glossary of terminology.

Modeling and Practice of Erosion and Sediment Transport under Change

MDPI Climate and anthropogenic changes impact the conditions of erosion and sediment transport in rivers. Rainfall variability and, in many places, the increase of rainfall intensity have a direct impact on rainfall erosivity. Increasing changes in demography have led to the acceleration of land cover changes in natural areas, as well as in cultivated areas, and, sometimes, in degraded areas and desertified landscapes. These anthropogenized landscapes are more sensitive to erosion. On the other hand, the increase in the number of dams in watersheds traps a great portion of sediment fluxes, which do not reach the sea in the same amount, nor at the same quality, with consequences on coastal geomorphodynamics. This book is dedicated to studies on sediment fluxes from continental areas to coastal areas, as well as observation, modeling, and impact analysis at different scales from watershed slopes to the outputs of large river basins. This book is concentrated on a number of keywords: “erosion” and “sediment transport”, “model” and “practice”, and “change”. The keywords are briefly discussed with respect to the relevant literature. The contributions in this book address observations and models based on laboratory and field data, allowing researchers to make use of such resources in practice under changing conditions.

Drinking Water Quality Problems and Solutions

Cambridge University Press This textbook provides a comprehensive review of the problems associated with the supply of drinking water in the developed world. Since the first edition of this book was published, water companies and regulators have been presented with numerous new challenges - global warming has seriously affected water supplies and water quality; advances in chemical and microbial analysis have revealed many new contaminants in water that were previously undetectable; and recent terrorist attacks have demonstrated how vulnerable water supplies are to contamination or disruption. This new edition includes an overview of the

current and emerging problems, with potential solutions. It has been completely updated, and includes the WHO Revised Drinking Water Guidelines. An ideal textbook for courses in environmental science, hydrology, environmental health and environmental engineering; it also provides an authoritative reference for practitioners and professionals in the water supply industry.

Public Health Significance of Urban Pests

World Health Organization The second half of the 20th century and the beginning of the 21st century witnessed important changes in ecology, climate and human behaviour that favoured the development of urban pests. Most alarmingly, urban planners now face the dramatic expansion of urban sprawl, in which city suburbs are growing into the natural habitats of ticks, rodents and other pests. Also, many city managers now erroneously assume that pest-borne diseases are relics of the past. All these changes make timely a new analysis of the direct and indirect effects of present-day urban pests on health. Such an analysis should lead to the development of strategies to manage them and reduce the risk of exposure. To this end, WHO invited international experts in various fields - pests, pest-related diseases and pest management - to provide evidence on which to base policies. These experts identified the public health risk posed by various pests and appropriate measures to prevent and control them. This book presents their conclusions and formulates policy options for all levels of decision-making to manage pests and pest-related diseases in the future. [Ed.]

Whitaker's Book List

Electrochemistry in a Divided World

Innovations in Eastern Europe in the 20th Century

Springer In this collection of interrelated essays, the authors review landmark developments in electrochemistry building on biographic material and personal insight. The book facilitates understanding of the innate pathways of developments in electrochemical science as a result of lucky circumstances fitting to objective conditions. Thus the book will help to understand the present state of electrochemistry and offer inspiration for solving today's scientific challenges. The authors as experienced electrochemists from the U.S., Western and Eastern Europe also provide guidance for scientific careers by presenting biographical examples of famous electrochemists.

Toxicological Profile for Selenium (Update)

DIANE Publishing Selenium (SE) and its compounds are used in photographic devices, gun gluing, plastics, paints, anti-dandruff shampoos, vitamin and mineral supp., fungicides, and glass. It is also used to prepare drugs and as a nutritional feed supp. for poultry and livestock. This profile includes: (a) The exam;n. of toxicologic info. and epidemiologic evaluations on SE to ascertain the levels of significant human exposure for the substance and the chronic health effects; (b) A determination of whether adequate info. on the health effects of SE is avail. to determine levels of exposure that present a significant risk to human health (SRHH); and (c) Ident;n. of toxicologic testing needed to identify the types of exposure that may present SRHH. Illus. A print on demand pub.

Laboratory Animal Medicine

Academic Press Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research. The book discusses animal medicine, experimental methods and techniques, design and management of animal facilities, and legislation on laboratory animals. Several papers discuss the biology and diseases of mice, hamsters, guinea pigs, and rabbits. Another paper addresses the dog and cat as laboratory animals, including sourcing of these animals, housing, feeding, and their nutritional needs, as well as breeding and colony management. The book also describes ungulates as laboratory animals, including topics on sourcing, husbandry, preventive medical treatments, and housing facilities. One paper addresses primates as test animals, covering the biology and diseases of old world primates, Cebidae, and ferrets. Some papers pertain to the treatment, diseases, and needed facilities for birds, amphibians, and fish. Other papers then deal with techniques of experimentation, anesthesia, euthanasia, and some factors (spontaneous diseases) that complicate animal research. The text can prove helpful for scientists, clinical assistants, and researchers whose work involves laboratory animals.

Comorbidity of Mental and Physical Disorders

Karger Medical and Scientific Publishers 0

Principles of Laboratory Animal Science

A Contribution to the Humane Use and Care of Animals and to the Quality of Experimental Results

Elsevier Science Health Science Division The welfare of laboratory animals, as well as the ethical issues involved in the humane use of animals for scientific purposes, are discussed in this new revised edition. Information is included on the biology and husbandry of animal models; on behavior, stress and well-being; genetic and microbiological standardization; health monitoring; anaesthesiology; animal alternatives; ethics. This book addresses all of the aspects that scientists need to know when considering the design of an animal experiment. Replacement, reduction and refinement of animal experiments are the guiding principles for its contents.

Phytoplankton Manual

Unipub

Seawater Reverse Osmosis Desalination

Assessment & Pre-treatment of Fouling and Scaling

IWA Publishing This textbook covers the fundamentals of fouling and scaling in reverse osmosis systems. It includes theory and practice of pre-treatment, fouling and scaling in reverse osmosis applied for drinking and industrial water production. The impact of the water source - seawater, river water, brackish groundwater and (treated domestic) waste water - will be discussed in depth. The book presents the knowledge and experience gained at IHE Delft over the last 25 years during the implementation of the master programme in Water Supply Engineering and during the implementation of state-of-the-art research in understanding and solving operational problems in full scale desalination plants. It presents the expert knowledge of IHE Delft in the areas of pre-treatment for reverse osmosis systems, assessment of water quality with respect to fouling potential, development of methods for quality

assessment, modified fouling index ultrafiltration at constant flux, transparent exopolymer particles, antiscalant dose optimization, biological growth potential), algal blooms, scaling control. The book will be used in the annual master programme at IHE Delft and it will be of interest for students, academics, engineers and managers in drinking water facilities all over the world.

Laboratory Techniques in Rabies

Practical Handbook of Material Flow Analysis

CRC Press The first-ever book on this subject establishes a rigid, transparent and useful methodology for investigating the material metabolism of anthropogenic systems. Using Material Flow Analysis (MFA), the main sources, flows, stocks, and emissions of man-made and natural materials can be determined. By demonstrating the application of MFA, this book reveals how resources can be conserved and the environment protected within complex systems. The fourteen case studies presented exemplify the potential for MFA to contribute to sustainable materials management. Exercises throughout the book deepen comprehension and expertise. The authors have had success in applying MFA to various fields, and now promote the use of MFA so that future engineers and planners have a common method for solving resource-oriented problems.

Management of Animal Care and Use Programs in Research, Education, and Testing

CRC Press AAP Prose Award Finalist 2018/19 Management of Animal Care and Use Programs in Research, Education, and Testing, Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century. Following in the footsteps of the first edition, this revision serves as a first line management resource, providing for strong advocacy for advancing quality animal welfare and science worldwide, and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book: - Emphasizes the importance of developing a collaborative culture of care

within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program - Provides a new section on Environment and Housing, containing chapters that focus on management considerations of housing and enrichment delineated by species - Expands coverage of regulatory oversight and compliance, assessment, and assurance issues and processes, including a greater discussion of globalization and harmonizing cultural and regulatory issues - Includes more in-depth treatment throughout the book of critical topics in program management, physical plant, animal health, and husbandry. Biomedical research using animals requires administrators and managers who are knowledgeable and highly skilled. They must adapt to the complexity of rapidly-changing technologies, balance research goals with a thorough understanding of regulatory requirements and guidelines, and know how to work with a multi-generational, multi-cultural workforce. This book is the ideal resource for these professionals. It also serves as an indispensable resource text for certification exams and credentialing boards for a multitude of professional societies Co-publishers on the second edition are: ACLAM (American College of Laboratory Animal Medicine); ECLAM (European College of Laboratory Animal Medicine); IACLAM (International Colleges of Laboratory Animal Medicine); JCLAM (Japanese College of Laboratory Animal Medicine); KCLAM (Korean College of Laboratory Animal Medicine); CALAS (Canadian Association of Laboratory Animal Medicine); LAMA (Laboratory Animal Management Association); and IAT (Institute of Animal Technology).

Noninvasive Methods for the Quantification of Skin

Functions

Systems Chemical Biology

Methods and Protocols

Humana Press This volume explores the latest available wet-lab techniques and computational methods to study in-cell small-molecule behavior and interactions with their targets. The chapters in this book discuss topics such as disease-relevant models for chemical biology studies, target engagement using cellular thermal shift assay or bioluminescence resonance energy transfer; visualization of bio-active small molecules Raman microscopy; (phospho-)proteomics and transcriptomics for mode-of-action studies,

CRISPR/Cas9-based chemogenomic profiling in mammalian cells; predicting drug interactions using computational approaches; comparison of compound-induced profiles using high-content imaging or cancer cell line panels and web-based tools for polypharmacology prediction. 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 thorough, Systems Chemical Biology: Methods and Protocols is a valuable resource for novice or expert scientists and researchers trying to initiate or continue their chemical biology studies at a systems level.

Chemistry in the Laboratory

A Study of Chemical and Physical Changes

John Wiley & Sons Incorporated This updated and revised chemistry manual provides a well rounded understanding of concepts in the general chemistry laboratory. Utilising visual aids, experiments and equipment are explained and results and their pertinence discussed.

Laboratory Techniques in Electroanalytical Chemistry

Emerging Viral Diseases

The One Health Connection: Workshop Summary

National Academies Press In the past half century, deadly disease outbreaks caused by novel viruses of animal origin - Nipah virus in Malaysia, Hendra virus in Australia, Hantavirus in the United States, Ebola virus in Africa, along with HIV (human immunodeficiency virus), several influenza subtypes, and the SARS (sudden acute respiratory syndrome) and MERS (Middle East respiratory syndrome) coronaviruses - have underscored the urgency of understanding factors influencing viral disease emergence and spread. Emerging Viral Diseases is the summary of a public workshop hosted in March 2014 to examine factors driving the appearance, establishment,

and spread of emerging, re-emerging and novel viral diseases; the global health and economic impacts of recently emerging and novel viral diseases in humans; and the scientific and policy approaches to improving domestic and international capacity to detect and respond to global outbreaks of infectious disease. This report is a record of the presentations and discussion of the event.