

Pre U Maths October 2013 Paper 2

Fiscal Monitor, October 2013 World Bank East Asia and Pacific Economic Update, October 2013 The Trans Pacific Partnership, China and India Handbook of Digital Imaging Regulating Banks in Central and Eastern Europe FYR Macedonia Green Growth Country Assessment Economic Change in Asia BRICS and International Tax Law Contemporary Issues in International Arbitration and Mediation: The Fordham Papers (2013) SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2021 SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2020 Australian Climate Policy and Diplomacy Competition Law in Kenya Importing EU Norms Arbitration and Dispute Resolution in the Resources Sector EFA Global Monitoring Report - 2013-2014 - Teaching and Learning Achieving quality for all Towards a molecular classification of colorectal cancer Routledge Handbook of Southeast Asian Democratization From Is to Ought: The Place of Normative Models in the Study of Human Thought Evaluation Management in South Africa and Africa Connecting Asia Homeostatic and Retrograde Signaling Mechanisms Modulating Presynaptic Function and Plasticity Handbook of Thermoplastic Elastomers Moving Health Sovereignty in Africa Vibrio ecology, pathogenesis and evolution New Collecting: Exhibiting and Audiences after New Media Art Animal model studies on viral infections Routledge Handbook of Public Communication of Science and Technology PAIN - Novel targets and new technologies The Future of International Competition Law Enforcement Female Genital Cosmetic Surgery Iraq's Oil and Gas Industry Type I Interferon in Human Autoimmunity Oxford Textbook of Creative Arts, Health, and Wellbeing Impact of Lipid Peroxidation on the Physiology and Pathophysiology of Cell Membranes Novel roles of non-coding brain RNAs in health and disease Public History Molecular mechanisms regulating cytotoxic lymphocyte development and function, and their associations to human diseases Brazil Neurophysiology in Alzheimer's Disease and Dementia

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Arbitration and Dispute Resolution in the Resources Sector Aug 20 2021 This book provides a comprehensive Australian perspective on the resolution of resources disputes. In particular, it focuses on the use of arbitration, mediation and adjudication in the resources sector. It concentrates on arbitration as the preferred method of dispute resolution, including international commercial and investor-state arbitration. The book offers fascinating insights into the use of arbitration to investment disputes involving resources companies in the African OHADA countries, Australia and other countries. It offers an Australian perspective which will be useful to discerning arbitration scholars and dispute resolvers. In addition, the book provides useful information on how to draft arbitration clauses for resources sector contracts. This publication will be of interest to members of the academic research community and will also appeal to dispute resolution professionals and practitioners.

Towards a molecular classification of colorectal cancer Jun 17 2021 In 2007, Jeremy Jass proposed a molecular classification of colorectal cancer including KRAS, BRAF, Mismatch Repair, CIMP and MGMT Status. Since then, many prognostic and predictive studies have been published on this topic, mainly focusing on one single molecular marker. The aim of the e-book is to summarize the knowledge in 2014 from a multidisciplinary point of view that can potentially be used as a manual by CRC researchers in every field.

Handbook of Thermoplastic Elastomers Dec 12 2020 Handbook of Thermoplastic Elastomers, Second Edition presents a comprehensive working knowledge of thermoplastic elastomers (TPEs), providing an essential introduction for those learning the basics, but also detailed engineering data and best practice guidance for those already involved in polymerization, processing, and part manufacture. TPEs use short, cost-effective production cycles, with reduced energy consumption compared to other polymers, and are used in a range of industries including automotive, medical, construction and many more. This handbook provides all the practical information engineers need to successfully utilize this material group in their products, as well as the required knowledge to thoroughly ground themselves in the fundamental chemistry of TPEs. The data tables included in this book assist engineers and scientists in both selecting and processing the materials for a given product or application. In the second edition of this handbook, all chapters have been reviewed and updated. New polymers and applications have been added — particularly in the growing automotive and medical fields — and changes in chemistry and processing technology are covered. Provides essential knowledge of the chemistry, processing, properties, and applications for both new and established technical professionals in any industry utilizing TPEs Datasheets provide

"at-a-glance" processing and technical information for a wide range of commercial TPEs and compounds, saving readers the need to contact suppliers Includes data on additional materials and applications, particularly in automotive and medical industries

Public History Sep 28 2019 The 2nd edition of Public History: A Practical Guide provides a fresh examination of history as practiced in its various worldly guises and contexts. It analyses the many skills that historians require in the practice of public history and looks at how a range of actors, including museums, archives, government agencies, community history societies and the media/digital media, make history accessible to a wider audience in a variety of ways. Faye Sayer's exciting new edition includes: * Brand new chapters on 'Restoration and Preservation' and history and the working world * Substantial additions covering the growing fields of digital history and history in politics * More images, figures and international case studies from the US, Australia, the UK, Europe and Asia * 'Personal Reflection' sections from a range of industry experts from around the world * Historiographical updates and significant revisions throughout the text * Expanded online 'Public History Toolkit' resource, with a range of new features Public History: A Practical Guide delivers a comprehensive outline of this increasingly prevalent area of the discipline, offering a distinctly global approach that is both accessible and engaging in equal measure. Finally, it explores future methodological possibilities and can be used as a reference point for professional development planning in the sectors discussed. This is the essential overview for any student wanting to know what history means beyond the classroom.

Regulating Banks in Central and Eastern Europe Jun 29 2022 How do bank supervisors strike a balance between market self-regulation and pro-active regulatory intervention? This book investigates the choice of banking supervision approach in four European Union member states from Central and Eastern Europe – Bulgaria, Estonia, Hungary, and Slovenia – after their transition to democracy and market economy.

Evaluation Management in South Africa and Africa Mar 15 2021 *Contemporary Issues in International Arbitration and Mediation: The Fordham Papers (2013)* Feb 23 2022 The 2013 volume of Contemporary Issues in International Arbitration and Mediation: The Fordham Papers 2013 is a collection of important works in the field written by the speakers at the 2013 Fordham Law School Conference on International Arbitration and Mediation, held in New York.

SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2020 Dec 24 2021 SSC Staff Selection Commission (SSC) has released the application form for Combined Higher Secondary Level (CHSL). It is a competitive examination for the recruitment of Lower Divisional Clerk / Junior Secretariat Assistant, Postal Assistant / Sorting Assistant and Data Entry Operators for various Government of India Ministries /

Departments / Offices. The recruitment process for SSC CHSL consists of 3 phases which are tier-1 (computer-based exam), tier-2 (written exam) and skill test as tier-3. The book on SSC CHSL Online Examination Solved Papers [2019 - 2019] has been revised consciously and carefully for the aspirants who are preparing for the posts of LDC/ DEO/ PSA. With the help of this book aspirants can self-analyze their preparation and can understand the types of various questions, their weightage and the situation of questions quickly that have been asked in the exam. Apart from Previous Years' Solved Papers, the book also provides 3 Practice Sets in the end in order to track their progress record. Candidates can also avail the 3 Online Practice Sets for free with this book. Packed with a perfect set of practice material, it is a must-have for anyone who wants to enhance their preparation. TABLE OF CONTENTS Solved Papers 01-07-2019, Solved Paper 19-03-2018, Solved Paper 18-01-2017, SSC (10+2) Solved Papers (2015 - 2009), 3 Practice Sets.

Moving Health Sovereignty in Africa Nov 10 2020 Today's era of intense globalization has unleashed dynamic movements of people, pathogens, and pests that overwhelm the static territorial jurisdictions on which the governance provided by sovereign states and their formal intergovernmental institutions is based. This world of movement calls for new ideas and institutions to govern people's health, above all in Africa, where the movements and health challenges are the most acute. This book insightfully explores these challenges in ways that put the perspectives of Africans themselves at centre stage. It begins with the long central and still compelling African health challenge of combating the pandemic of HIV/AIDS. It then examines the global governance responses by the major multilateral organizations of the World Bank and the World Trade Organization and the newer informal flexible democratically oriented ones of the Group of Eight. It also addresses the compounding health challenge created by climate change to assess both its intensifying impact on Africa and how all international institutions have largely failed to link climate and health in their governance response. It concludes with several recommendations about the innovative ideas and institutions that offer a way to closing the great global governance gaps and thus improving Africans' health and that of citizens beyond.

Australian Climate Policy and Diplomacy Nov 22 2021 Australian Climate Policy and Diplomacy provides a well overdue critique of existing, and high-profile, publications that convey the 'greenhouse mafia' hypothesis, which posits that Australia's weak policy response to climate change is the result of a menacing domestic fossil fuel lobby. Ben L. Parr argues that the shared government-industry discourse about protecting Australia's industrial competitiveness has had a more decisive influence in shaping and legitimising Australian climate policy than the direct lobbying tactics of the fossil fuel industry. Parr also reveals how the divergent foreign policy discourses and traditions of Australia's two major political parties - as internationalist versus alliance-focused - have enabled and constrained their climate diplomacy and domestic policies over time. To demonstrate his argument, he presents a discourse analysis woven into a chronological policy narrative, comprising more than 1000 primary texts (media releases, interviews, and speeches) generated by prime ministers and key fossil fuel lobbyists. Overall, this volume illustrates how domestic forces have and are influencing Australia's climate policy. In doing so, it also provides a framework that can be adapted to examine climate mitigation policies in other countries, notably Canada and the US. This book will be of interest to students and scholars of climate change, environmental policy and governance, and Australian climate change policy and politics more specifically, as well as policymakers and practitioners working in these fields.

Brazil Jul 27 2019 Examines the South American country that is destined to be one of the world's premier economic powers by the year 2030, and considers some of the abundant problems the nation faces.

Neurophysiology in Alzheimer's Disease and Dementia Jun 25 2019 Alzheimer's disease (AD) and dementia are the most common neurodegenerative disorder. Since the number of individuals with AD and dementia is expected to increase considerably in the near future, reliable treatment and diagnosis are critical. EEG and neurophysiological technique could be used as a cost-effective screening tool for early detection and diagnosis in the Mild Cognitive Impairment (MCI) stage. The aim in neurophysiology research is to develop signal processing methods that improve the specificity for diagnosing dementia; we wish to discover signal features that not only significantly differ in AD patients, but also allow us to reliably separate AD patients and control subjects. This approach is valuable for clinical purposes (as diagnostic tool for dementia), and it also more fundamentally contributes to a better

understanding of brain dynamics of MCI patients. Finally, the development of neurophysiological biomarker could be useful in monitoring pharmacological treatments. The main focus of this special issue will be on the most recent developments and ideas in the field of EEG and neurophysiology which will enable us to extract features that improve the specificity for diagnosing AD and dementia.

Animal model studies on viral infections Aug 08 2020 Understanding viral replication and pathogenicity properties in infected individuals is a major mission of animal virology. Animal models are essential to analyze the in vivo viral characteristics and to develop countermeasures against viruses. To fight against a wide variety of viruses, basic studies with specific and/ or common approaches are required. This Research Topic collects articles that describe studies on numerous virus species at various stages toward animal experiments: (i) description/evaluation/ new challenges of animal model studies; (ii) experimental material/methods for animal model studies; (iii) observations for upcoming animal model studies. Numbers of DNA and RNA viruses such as HHV-6, HPV, Ebola virus, HCV, dengue virus, HTLV-1, HIV-1, SIV, and measles virus are covered by this special issue consisting of original research, methods, review, mini-review, and opinion articles. All readers would understand, we believe and hope, that animal model studies are critical for current virology as always.

Type I Interferon in Human Autoimmunity Jan 31 2020 The type I interferon system plays a critical role in host defense in health, and a growing body of literature suggests that type I interferon is a critical mediator of human autoimmune disease. Type I interferons function as a bridge between the innate and adaptive immune systems, and as such play an important role in setting thresholds for response against self antigens. Many investigators have focused on the role type I interferons play in autoimmune disease. This fascinating and rapidly growing body of literature encompasses many different autoimmune diseases, including systemic lupus erythematosus, type I diabetes, multiple sclerosis, and others. In this Research Topic, we provide a comprehensive overview of the various roles type I interferons play in autoimmune diseases, with a focus on human immunology.

Fiscal Monitor, October 2013 Nov 03 2022 Persistently high debt ratios in advanced economies and emerging fragilities in the developing world cast clouds on the global fiscal landscape. In advanced economies, with narrowing budget deficits, the average public debt ratio is expected to stabilize in 2013-14—but it will be at a historic peak. At the same time, fiscal vulnerabilities are on the rise in emerging market economies and low-income countries—on the back, in emerging market economies, of heightened financial volatility and downward revisions to potential growth, and in low-income countries, of possible shortfalls in commodity prices and aid. Strengthening fiscal balances and buttressing confidence thus remain at the top of the policy agenda. Against that backdrop, this issue explores whether and how tax reform can help strengthen public finances. Taxation is always a sensitive topic and is now more than ever at the center of policy debates around the world. Can countries tax more, better, more fairly? Results reported in this issue show that the scope to raise more revenue is limited in many advanced economies and, where tax ratios are already high, the bulk of the necessary adjustment will have to fall on spending. In emerging market economies and low-income countries, where the potential for raising revenue is often substantial, improving compliance remains a central challenge.

BRICS and International Tax Law Mar 27 2022 With the ongoing expansion of outbound foreign direct investment (FDI) in the countries representing the BRICS economic bloc (Brazil, Russia, India, China, and South Africa) - and with all of them at the same time listed among the top seven countries plagued by tax evasion and avoidance in the guise of illicit out flows - the ve governments, both individually and through cooperative initiatives, have devised new international tax strategies that are proving to be of great interest and value to other countries, both developing and developed. The core of these strategies addresses the necessity of stemming the out ow of revenue while strongly supporting FDI, both inbound and outbound while complying with international obligations including those arising from human rights laws. This book is the rst in-depth commentary on this new and evolving area of international tax law. The detailed analysis covers the entire eld of BRICS international tax law, considering topics such as the following: - information exchange procedures and pitfalls; - response to the OECD's Base Erosion and Pro t-Sharing (BEPS) initiative; - role of bilateral and multilateral double taxation conventions including the Multilateral Instrument and the Bilateral Investment Treaties; - thin capitalization; - transfer pricing; - controlled foreign corporation rules; - shortcomings

related to authorities' limited manpower; - international audit and investigation procedures; - the BRICS approach to residence and mandatory and binding arbitration; and - the BRICS approach to shaping the developing world's international tax system. Notably, the author personally conducted interviews with senior international representatives of the BRICS tax authorities, as well as with leading BRICS academics and practitioners. Tax cases, together with human rights and investment cases and administrative guidelines in all ve countries are also included in the analysis. The study concludes with recommendations for improving each of the ve countries' tax law and procedures, especially in the area of dispute resolution. The author's goal is to extend the existing body of knowledge of the BRICS' international tax laws in order to assist in developing an understanding of the BRICS approach to dealing with evasion and avoidance: an approach which facilitates both outbound and inbound FDI, simplifies tax authority administration and establishes a basis for resolving international disputes which is compatible with sovereignty. In achieving this objective, the author has produced a major work that is of immeasurable value to tax advisers, government and governance officials, academics and researchers both in developing international taxation strategies and in helping to resolve disputes with tax authorities.

Impact of Lipid Peroxidation on the Physiology and Pathophysiology of Cell Membranes Nov 30 2019 The general process of lipid peroxidation consists of three stages: initiation, propagation, and termination. The initiation phase of lipid peroxidation includes hydrogen atom abstraction. Several species can abstract the first hydrogen atom and include the radicals: hydroxyl, alkoxyl, peroxy, and possibly HO* 2. The membrane lipids, mainly phospholipids, containing polyunsaturated fatty acids are predominantly susceptible to peroxidation because abstraction from a methylene group of a hydrogen atom, which contains only one electron, leaves at the back an unpaired electron on the carbon. The initial reaction of *OH with polyunsaturated fatty acids produces a lipid radical (L*), which in turn reacts with molecular oxygen to form a lipid hydroperoxide (LOOH). Further, the LOOH formed can suffer reductive cleavage by reduced metals, such as Fe⁺⁺, producing lipid alkoxyl radical (LO*). Peroxidation of lipids can disturb the assembly of the membrane, causing changes in fluidity and permeability, alterations of ion transport and inhibition of metabolic processes. In addition, LOOH can break down, frequently in the presence of reduced metals or ascorbate, to reactive aldehyde products, including malondialdehyde (MDA), 4-hydroxy-2-nonenal (HNE), 4-hydroxy-2-hexenal (4-HHE) and acrolein. Lipid peroxidation is one of the major outcomes of free radical-mediated injury to tissue mainly because it can greatly alter the physicochemical properties of membrane lipid bilayers, resulting in severe cellular dysfunction. In addition, a variety of lipid by-products are produced as a consequence of lipid peroxidation, some of which can exert beneficial biological effects under normal physiological conditions. Intensive research performed over the last decades have also revealed that by-products of lipid peroxidation are also involved in cellular signalling and transduction pathways under physiological conditions, and regulate a variety of cellular functions, including normal aging. In the present collection of articles, both aspects (adverse and beneficial) of lipid peroxidation are illustrated in different biological paradigms. We expect this eBook may encourage readers to expand the current knowledge on the complexity of physiological and pathophysiological roles of lipid peroxidation.

Oxford Textbook of Creative Arts, Health, and Wellbeing Jan 01 2020 There is growing interest internationally in the contributions which the creative arts can make to wellbeing and health in both healthcare and community settings. A timely addition to the field, the Oxford Textbook of Creative Arts, Health, and Wellbeing is the first work of its kind to discuss the role the creative arts have in addressing some of the most pressing public health challenges faced today. Providing an evidence-base and recommendations for a wide audience, this is an essential resource for anyone involved with this increasingly important component of public health practice. The textbook offers key insights for developing new creative arts-based approaches to health and wellbeing, and shows how these can augment established practices within a variety of social settings. Theoretically grounded and with a strong evidence base, this book brings together contributions from both practitioners and researchers to provide a comprehensive account of the field. Using international examples, the textbook elucidates the various approaches that have successfully led to improvements in public health, whilst case studies in healthcare practices evaluate the impact of arts-based initiatives in a multitude of international settings, life-course stages, and

social milieus. The Oxford Textbook of Creative Arts, Health, and Wellbeing is a comprehensive resource that will be essential to anyone with an interest in this increasingly important component of public health practice.

Economic Change in Asia Apr 27 2022 Since the 2008 global economic crisis, East Asian economies have faced a number of macroeconomic issues including China's new growth model, the middle-income trap in developing East Asian countries, and the growing natural fibre market and its socio-economic implications. This book addresses these key topical issues which East Asian economies are facing today. Written by international experts in the area of Asian economics and business, it presents the most recent macroeconomic outlook in the region and then goes on to analyse a number of business corporations and industry-related cases, focussing on the theme of firms' strategies. Examining the links between environmental and financial performance, corporate social responsibility and the transfer of environmental management, financial accounting standards, the relationship between corporate sustainability activities and corporate profit, and the different cultural approaches towards business ethics, this book provides both practical strategies and new theoretical insights. As such it will appeal to students, scholars and practitioners interested in Asian business and economics.

Female Genital Cosmetic Surgery Apr 03 2020 A cross-disciplinary take on the rising phenomenon of female genital cosmetic surgery, from world-leading experts, in a single volume.

The Future of International Competition Law Enforcement May 05 2020 The Future of International Competition Law Enforcement undertakes an original assessment of the EU's international cooperation agreements in the field of competition law and is uniquely focused on the bilateral sphere, often labelled as a mere 'interim-solution' awaiting a global agreement.

World Bank East Asia and Pacific Economic Update, October 2013 Oct 02 2022 The World Bank East Asia and Pacific Economic Update is a comprehensive, twice-yearly review of the region's economies prepared by the East Asia and Pacific region of the World Bank.

Novel roles of non-coding brain RNAs in health and disease Oct 29 2019 Non-coding RNAs (ncRNAs), and in particular microRNAs are rapidly becoming the focus of research interest in numerous basic and translational fields, including brain research; and their importance for many aspects in brain functioning merits special discussion. The wide-scope, multi-targeted and highly efficient manner of ncRNA regulatory activities draws attention to this topic by many, but the available research and analysis tools and experimental protocols are still at their infancy, and calls for special discussion given their importance for many aspects in brain functioning. This eBook is correspondingly focused on the search for, identification and exploration of those non-coding RNAs whose activities modulate the multi-leveled functions of the eukaryotic brain. The different articles strive to cover novel approaches for identifying and establishing ncRNA-target relationships, provide state of the art reports of the affected neurotransmission pathways, describe inherited and acquired changes in ncRNA functioning and cover the use of ncRNA mimics and blockade tools for interference with their functions in health and disease of the brain. Non-coding RNAs are here to stay, and this exciting eBook provides a glimpse into their impact on our brain's functioning at the physiology, cell biology, behavior and immune levels.

SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2021 Jan 25 2022 1. The book is prepared for SSC CHSL (10+2) Tier 1 Online Examination 2. Previous Years' Solved Papers (2020-2009) are given to know the paper pattern 3. 3 Practice Sets are given for practice 4. 3 Online Test papers are provided to give the exact feel of the examination The Staff Selection Commission (SSC) organizes number of examinations for eligible and potential candidates every year who wish to gain entry into prestigious Government Jobs at a young age. To get recruited in different posts like Data Entry Operators, Lower Divisional Clerk (LDC), Court Clerks, etc. of SSC CHSL, here is the new updated edition of SSC CHSL (10+2) Tier 1 for Online Examination 2021 solved papers (2020-2009), proving to be one stop solution that is designed for the complete preparation. This book contains Solved Papers (2020-2009) & 3 Practice Sets giving complete idea and knowledge about the paper pattern, Questions style and weightage. With 3 Online Practice sets one can get exact feel of the examination. Packed with well-organized practice material, it is a perfect practice workbook to track your day-to-day progress to achieve success in the exam. Table of Content Solved Papers (2020-2009), 3 Practice Sets

Handbook of Digital Imaging Jul 31 2022 A comprehensive and practical analysis and overview of the imaging chain through acquisition,

processing and display The Handbook of Digital Imaging provides a coherent overview of the imaging science amalgam, focusing on the capture, storage and display of images. The volumes are arranged thematically to provide a seamless analysis of the imaging chain from source (image acquisition) to destination (image print/display). The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems. The content will be drawn from all aspects of digital imaging including optics, sensors, quality, control, colour encoding and decoding, compression, projection and display. Contains approximately 50 highly illustrated articles printed in full colour throughout Over 50 Contributors from Europe, US and Asia from academia and industry The 3 volumes are organized thematically for enhanced usability: Volume 1: Image Capture and Storage; Volume 2: Image Display and Reproduction, Hardcopy Technology, Halftoning and Physical Evaluation, Models for Halftone Reproduction; Volume 3: Imaging System Applications, Media Imaging, Remote Imaging, Medical and Forensic Imaging 3 Volumes www.handbookofdigitalimaging.com

Iraq's Oil and Gas Industry Mar 03 2020 Oil, an integral part of the contemporary global economy, is considered a driving force behind the 2003 invasion of Iraq. Hydrocarbon reserves in Iraq have a significant role to play in global supply, with oil revenue accounting for more than 90% of Iraqi government income. This book provides a comprehensive insight into the key foundations of Iraq's oil industry and assists in the development of a core area of domestic law to promote economic recovery following years of instability. It addresses the development of oil legislation and the formation of contracts since the US and allied occupation of Iraq in 2003. Legislation is assessed against the framework of the constitution along with the different types of oil agreements and their terms. The book looks at three main aspects of oil legislation, beginning with the validity and interpretation of the constitution as any subsequent legislation governing oil policy will be based upon this. The work then discusses whether the draft oil and gas law of 2007 and any subsequent oil legislation, including the law implemented by the Kurdish Regional Government in 2007, is valid. Finally, the book analyses the legitimacy of oil agreements entered into by the central and regional governments and whether these contain terms beneficial to the state and contracting party. Providing an in-depth analysis of the origins and development of the legal framework of the oil industry in Iraq, the book acts as both a reference source and a springboard for future research across a range of legal, economic and policy perspectives. It will appeal to practitioners and academics working in energy law and international investment law, as well as policy-makers, legal advisors and those working in governments and energy companies.

Vibrio ecology, pathogenesis and evolution Oct 10 2020 Vibrios are Gram-negative bacilli that occur naturally in marine, estuarine, and freshwater systems. Some species include human and animal pathogens capable of causing gastroenteritis, wound infections, cholera, and fatal septicemia. Over the past decades, cutting edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens. Significant developments include the discovery of emerging epidemic clones, tracking the spread of new strain variants, and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis. Furthermore, improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter-epidemic periods and enhancing disease transmission. This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution, and will suggest the pathway of future research in this field.

Routledge Handbook of Public Communication of Science and Technology Jul 07 2020 Communicating science and technology is a high priority of many research and policy institutions, a concern of many other private and public bodies, and an established subject of training and education. Over the past few decades, the field has developed and expanded significantly, both in terms of professional practice and in terms of research and reflection. The Routledge Handbook of Public Communication of Science and Technology provides a state-of-the-art review of this fast-growing and increasingly important area, through an examination of the research on the main actors, issues, and arenas involved. In this brand-new revised edition, the book brings the reviews up-to-date and deepens the analysis. As well as substantial reworking of many chapters, it gives more attention to digital media and the global

aspects of science communication, with the inclusion of four new chapters. Several new contributors are added to leading mass-communication scholars, sociologists, public-relations practitioners, science writers, and others featured herein. With key questions for further discussion highlighted in each chapter, the handbook is a student-friendly resource and its scope and expert contributors mean it is also ideal for both practitioners and professionals working in the field. Combining the perspectives of different disciplines and of different geographical and cultural contexts, this original text provides an interdisciplinary and global approach to the public communication of science and technology. It is a valuable resource for students, researchers, educators, and professionals in media and journalism, sociology, the history of science, and science and technology.

The Trans Pacific Partnership, China and India Sep 01 2022 The United States and 11 other countries from both sides of the Pacific are currently negotiating the Trans-Pacific Partnership (TPP). The agreement is expected to set new benchmark for international trade through its comprehensive coverage of issues and binding regulations. It is expected to eventually mature into a regional trade agreement covering the entire Asia-Pacific. As of now, it does not include China and India, the two largest emerging markets and regional economies. The TPP has generated controversy for its excessive emphasis on trade issues, which have remained unresolved or unaddressed at the WTO due to differences between developed and emerging markets. It has also been criticized for adopting a negotiating style reflecting the US regulatory approach to international trade and also as a geo-political strategy of the US for supporting its strategic rebalancing towards Asia. From both economic and geo-political perspectives, the TPP has various significant implications for China and India that are examined in the book. This book sheds light on how China and India's entries in the TPP are mutually beneficial and how both countries can gain from the TPP by gaining preferential access to large markets and using it as an opportunity for introducing more outward-oriented reforms. The book also cautions that US must reconcile to the rebalancing of economic power within the grouping that will occur following the entries of China and India. Otherwise, the TPP and China and India might walk divergent paths and trade and regional integration in Asia-Pacific may not ever converge. This book will interest anyone who wishes to learn more about the TPP and its future implications and challenges and China and India's roles in global and regional trade.

Connecting Asia Feb 11 2021 This book analyses how closer regional connectivity and economic integration between South Asia and Southeast Asia can benefit both regions. With a focus on the role played by infrastructure and public policies in facilitating this process, it provides a detailed and up-to-date discussion of issues, innovations, and progress. Country studies of national connectivity issues and policies cover Bangladesh, India, Myanmar, Nepal, Sri Lanka, and Thailand, examining major developments in trade and investment, economic cooperation, the role of economic corridors, and regional cooperation initiatives. Thematic chapters explore investment in land and sea transport infrastructure, trade facilitation, infrastructure investment financing, supporting national and regional policies, and model-based estimates of the benefits of integration. They also identify significant opportunities for strengthening these integration efforts as a result of the recent opening up of Myanmar in political, economic, and financial terms. For the first time for these regions, the book employs a state-of-the-art computable general equilibrium (CGE) model incorporating heterogeneous firms to estimate the advantages of integration. Providing perspective on the latest thinking on integration policy, Connecting Asia is an essential resource for academics, policymakers, and business people alike.

FYR Macedonia Green Growth Country Assessment May 29 2022 This green growth country assessment for FYR Macedonia defines and assesses the economic costs and benefits of a shift to greener growth for FYR Macedonia, with a focus on climate action. Multi-sector analytic work tied together by macroeconomic modeling generated a detailed green growth path to 2050. While addressing today's economic challenges, policymakers need to keep the long-term in mind, both the likely impact of a changing climate on water, agriculture, and infrastructure and growing obligations to mitigate greenhouse gas emissions. This consideration is particularly important for decisions on long-lived infrastructure such as power supply, irrigation, or urban streets, water distribution, and sewers. Innovative modeling of water as a constraint on growth as the climate becomes warmer and drier quantified the tough tradeoffs that will be needed to balance competing demands from agriculture, the power sector, and municipalities and

industry. A greener energy sector needs to aim at increased supply security, reduced greenhouse gas emissions, and increased supply efficiency: more generation to avoid blackouts and expensive imports; lignite and oil replaced by gas and renewables in the supply mix; and aggressive energy efficiency measures in industry, buildings, and households. Providing better transport services while containing accelerating emissions growth will require better fuel efficiency, more use of rail and public transport, and an integrated approach to urban transport that maximizes local cobenefits. Urban areas, especially the capital city of Skopje hold the potential to lead on greener growth. In recent years, urban sprawl, driven by growth in the number of single family houses that use wood for heating and private cars for commuting, has pushed up the energy intensity of urban life as well as the cost of delivering infrastructure services to a less-dense community. The country also needs to plan for the impact of a changing climate on the reliability and quality of infrastructure services. Planners need to decide whether to build infrastructure to be more resilient today or wait to see what happens and spend more on maintenance and rehabilitation (or replacement) later. For FYR Macedonia, the top priorities for infrastructure adaptation over the next decade include urban drainage systems, health and education facilities and municipal buildings. The main local cobenefit of mitigation will be reduction of air pollution, which is among the highest in Europe. Particulate matter pollution from industry, the power sector, and road paving can be abated through better equipment while the other large and unusual source of air pollution--the widespread use of wood for heat by urban households--can be reduced in the near-term by more modern stoves and in the long-term by better heating options. An economy-wide macroeconomic assessment estimates the impact on growth and employment of packages of green growth actions across sectors and provides advice on priorities for public investment. Climate investments pose costs upfront but provide benefits both now and later. Adaptation interventions (which protect tomorrow's output from climate damage) are found to be less costly to growth and employment in the short-term than mitigation measures (which reduce greenhouse gas emissions) once sector results are integrated into a general equilibrium model. Under a 'green' climate action scenario, moderate adaptation measures in agriculture and water and incremental expenses in the climate-proofing of physical infrastructure would amount to the equivalent of around 0.1 percent of annual GDP, while moderate mitigation measures would require the mobilization of resources constituting about one percent of annual GDP. More ambitious climate action, under a 'super-green' scenario, would require water sector investments that reach one percent of GDP by 2015 while mitigation investments require two percent of GDP by 2020. Green climate action would together generate short-term losses to national income of more than two percent if financing is mobilized domestically, while super-green action induces even bigger losses. However, both moderate and ambitious climate action promise a medium- to long-term boost in the level of GDP—reaching 1.5 to 2 percent by 2050.

Molecular mechanisms regulating cytotoxic lymphocyte development and function, and their associations to human diseases Aug 27 2019 Nothing provided

PAIN - Novel targets and new technologies Jun 05 2020 The problem of clinical pain management is complex and far-reaching, as it encompasses many different types of pain, such as arthritis, musculoskeletal conditions, neuropathic pain, and visceral pain. It is widely known that many of the well-established analgesic pathways are centrally based, involving spinal and supraspinal sites. However, pain can also be effectively controlled by peripheral pathways. The analgesics market is growing and the driving forces are the aging population and need for better therapeutic benefits. There are various analgesic products that are available that can be administered by various routes, yet research is active in identifying new technologies for better drug targeting and novel targets to gain improved therapeutic efficiency. This e-Book "PAIN - novel targets and new technologies" has brought together experts in the field of pain at the physiological, pharmacological and pharmaceutical levels to discuss novel pain targets and new pain technologies across the various types of pain. This information is presented as novel research findings, short communications and review articles. The goal of this e-Book is to generate further collaborative discussion on the future and direction of pain therapies.

New Collecting: Exhibiting and Audiences after New Media Art Sep 08 2020 The collections of museums, galleries and online art organisations are increasingly broadening to include more new media art. Because new media is used as a means of documenting, archiving

and distributing art, and because new media art might be interactive with its audiences, this highlights the new kinds of relationships that might occur between audiences as viewers, participants, selectors, taggers or taxonomisers. New media art presents many challenges to the curator and collector, but there is very little published analytical material available to help meet those challenges. This book fills that gap. Drawing from the editor's extensive research and the authors' expertise in the field, the book provides clear navigation through a disparate arena. The authors offer examples from a wide geographical reach, including the UK, North America and Asia and integrate the consideration of audience response into all aspects of their work. The book will be essential reading for those studying or practicing in new media, curating or museums and galleries.

Importing EU Norms Sep 20 2021 This interdisciplinary work presents a conceptual framework and brings together constructivist and rationalist accounts of how EU norms are adopted, adapted, resisted or rejected. These chapters provide empirical cases and critical analysis of a rich variety of norm-takers from EU member states, European and non-European states, including the rejection of EU norms in Russia and Africa as well as adaptation of EU practices in Australia and New Zealand. Chapters on China, ASEAN and the Czech Republic demonstrate resistance to EU norm export. This volume probes differences in willingness to adopt or adapt norms between various actors in the recipient state and explores such questions as: How do norm-takers perceive of the EU and its norms? Is there a 'normative fit' between EU norms and the local normative context? Similarly, how do EU norms impact recipients' interests and institutional arrangements? First, the authors map EU norm export strategies and approaches as they affect norm-takers. Second, the chapters recognize that norm adoption, adaptation, resistance or rejection is a product of interaction and a relationship in which interdependence, asymmetry and power play a role. Third, we see that domestic circumstances within norm-takers condition the reception of norms. This book's focus on norm-takers highlights the reflexive nature of norm diffusion and that nature has implications for the EU itself as a norm exporter. Anyone with an interest in the research agenda on norm diffusion, normative power and the EU's normative dialogue with the world will find this book highly valuable, including scholars, policy makers and students of subjects including political science, European studies, international relations and international and EU law.

Homeostatic and Retrograde Signaling Mechanisms Modulating Presynaptic Function and Plasticity Jan 13 2021 Activity within neural circuits shapes the synaptic properties of component neurons in a manner that maintains stable excitatory drive, a process referred to as homeostatic plasticity. These potent and adaptive mechanisms have been demonstrated to modulate activity at the level of an individual neuron, synapse, circuit, or entire network, and dysregulation at some or all of these levels may contribute to neuropsychiatric disorders, intellectual disability, and epilepsy. Greater mechanistic understanding of homeostatic plasticity will provide key insights into the etiology of these disorders, which may result from network instability and synaptic dysfunction. Over the past 15 years, the molecular mechanisms of this form of plasticity have been intensely studied in various model organisms, including invertebrates and vertebrates. Though once thought to have a predominantly postsynaptic basis, emerging evidence suggests that homeostatic mechanisms act on both sides of the synapse through mechanisms such as retrograde signaling, to orchestrate compensatory adaptations that maintain stable network function. These trans-synaptic signaling systems ultimately alter neurotransmitter release probability by a variety of mechanisms including changes in vesicle pool size and calcium influx. These adaptations are not expected to occur homogeneously at all terminals of a pre-synaptic neuron, as they might synapse with neurons in non-overlapping circuits. However, the factors that govern the homeostatic control of synapse-specific plasticity are only beginning to be understood. In addition to our limited molecular understanding of pre-synaptic homeostatic plasticity, very little is known about its prevalence in vivo or its physiological and disease relevance. In this research topic, we aim to fill the aforementioned void by covering a broad range of topics that include: - Identification of signaling pathways and mechanisms that operate globally or locally to induce specific pre-synaptic adaptations - The nature of pre-synaptic ion channels relevant to this form of plasticity and their synapse-specific modulation and trafficking - Development and utilization of new tools or methods to study homeostatic plasticity in axons and pre-synaptic terminals - Novel mechanisms of homeostatic adaptations in pre-synaptic neurons -

Postsynaptic sensors of activity and retrograde synaptic signaling systems - A comprehensive analysis of the kinds of pre-synaptic adaptations in diverse neural circuits and cell types - Identification of physiological or developmental conditions that promote pre-synaptic homeostatic adaptations - How activity-dependent (Hebbian) and homeostatic synaptic changes are integrated to both permit sufficient flexibility and maintain stable activity - Relevance of pre-synaptic homeostatic plasticity to the etiology of neuropsychiatric disorders - Computational modeling of pre-synaptic homeostatic plasticity and network stability.

From Is to Ought: The Place of Normative Models in the Study of Human Thought

Apr 15 2021 In the study of human thinking, two main research questions can be asked: "Descriptive Q: What is human thinking like? Normative Q: What ought human thinking be like?" For decades, these two questions have dominated the field, and the relationship between them generated many a controversy. Empirical normativist approaches regard the answers to these questions as positively correlated - in essence, human thinking is what it ought to be (although what counts as the 'ought' standard is moot). In contemporary theories of reasoning and decision making, this is often associated with a Panglossian framework, an adaptationist approach which regards human thinking as a priori rational. In contrast, prescriptive normativism sees the answers to these two questions as negatively correlated. Normative models are still relevant to human thought, but human behaviour deviates from them quite markedly (with the invited conclusion that humans are often irrational). Prescriptive normativism often results in a Meliorist agenda, which sees rationality as amenable to education. Both empirical and prescriptive normativism can be contrasted with a descriptivist framework for psychology of human thinking. Following Hume's strict divide between the 'is' and the 'ought', descriptivism regards the descriptive and normative research questions as uncorrelated, or dissociated, with only the former question suitable for psychological study of human behaviour. This basic division carries over to the relation between normative ('ought') rationality, based on conforming to normative standards; and instrumental ('is') rationality, based on achieving one's goals. Descriptivist approaches regard the two as dissociated, whereas normativist approaches tend to see them as closely linked, with normative arguments defining and justifying instrumental rationality. This research topic brings together diverse contributions to the continuing debate. Featuring contributions from leading researchers in the field, the e-book covers a wide range of subjects, arranged by six sections: The standard picture: Normativist perspectives In defence of soft normativism Exploring normative models Descriptivist perspectives Evolutionary and ecological accounts Empirical reports With a total of some 24 articles from 55 authors, this comprehensive treatment includes theoretical analyses, meta-theoretical critiques, commentaries, and a range of empirical reports. The contents of the Research Topic should appeal to psychologists, linguists, philosophers and cognitive scientists, with research interests in a wide range of domains, from language, through reasoning, judgment and decision making, and moral judgment, to epistemology and theory of mind, philosophical logic, and meta-ethics.

Competition Law in Kenya Oct 22 2021 Derived from the renowned multi-volume International Encyclopaedia of Laws, this practical analysis of competition law and its interpretation in the Kenya covers every aspect of the subject - the various forms of restrictive agreements and abuse of dominance prohibited by law and the rules on merger control; tests of illegality; filing obligations; administrative investigation and enforcement procedures; civil remedies and criminal penalties; and raising challenges to administrative decisions. Lawyers who handle

transnational commercial transactions will appreciate the explanation of fundamental differences in procedure from one legal system to another, as well as the international aspects of competition law. Throughout the book, the treatment emphasizes enforcement, with relevant cases analysed where appropriate. An informative introductory chapter provides detailed information on the economic, legal, and historical background, including national and international sources, scope of application, an overview of substantive provisions and main notions, and a comprehensive description of the enforcement system including private enforcement. The book proceeds to a detailed analysis of substantive prohibitions, including cartels and other horizontal agreements, vertical restraints, the various types of abusive conduct by the dominant firms and the appraisal of concentrations, and then goes on to the administrative enforcement of competition law, with a focus on the antitrust authorities' powers of investigation and the right of defence of suspected companies. This part also covers voluntary merger notifications and clearance decisions, as well as a description of the judicial review of administrative decisions. Its succinct yet scholarly nature, as well as the practical quality of the information it provides, make this book a valuable time-saving tool for business and legal professionals alike. Lawyers representing parties with interests in the Kenya will welcome this very useful guide, and academics and researchers will appreciate its value in the study of international and comparative competition law.

EFA Global Monitoring Report - 2013-2014 - Teaching and Learning Achieving quality for all Jul 19 2021 The 2013/2014 Education for All Global Monitoring Report shows that a lack of attention to education quality and a failure to reach the marginalized have contributed to a learning crisis that needs urgent attention. Worldwide, 250 million children many of them from disadvantaged backgrounds are not learning the basics. Teaching and Learning: Achieving Quality for All describes how policy-makers can support and sustain a quality education system for all children, regardless of background, by providing the best teachers. The Report also documents global progress in achieving Education for All goals and provides lessons for setting a new education agenda post-2015. In addition, the Report identifies that insufficient financing is hindering advances in education.

Routledge Handbook of Southeast Asian Democratization May 17 2021 Southeast Asia, an economically dynamic and strategically vital region, seemed until recently to be transiting to more democratic politics. This progress has suddenly stalled or even gone into reverse, requiring that analysts seriously rethink their expectations and theorizing. The Routledge Handbook of Southeast Asian Democratization provides the first book-length account of the reasons for democracy's declining fortunes in the region today. Combining theory and case studies, it is structured in four major sections: Stunted Trajectories and Unhelpful Milieus Wavering Social Forces Uncertain Institutions Country cases and democratic guises This interdisciplinary reference work addresses topics including the impact of belief systems, historical records, regional and global contexts, civil society, ethnicity, women, Islam, and social media. The performance of political institutions is also assessed, and the volume offers a series of in-depth case studies, evaluating the country records of particular democratic, hybrid, and authoritarian regimes from a democratization perspective. Bringing together nearly 30 key international experts in the field, this cutting-edge Handbook offers a comprehensive and fresh investigation into democracy in the region This timely survey will be essential reading for scholars and students of Democratization and Asian Politics, as well as policymakers concerned with democracy's setbacks in Southeast Asia and the implications for the region's citizens.