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Australian National Bibliography- 1972
Management of Biological Nitrogen Fixation for the Development of More Productive and Sustainable Agricultural Systems-Ladha 1995-09-14 Table 1. Global allocation of arable land between different com modities Globally, cereal cropping dominates cultivated land Commodities' Proportion of land area use (around 50% of total area, Table 1). The remain (%) ing arable land is used for production of oilseed, fibre, or food and cash crops. In addition, vast areas are Cereals maintained under temporary or permanent pasture for Wheat 16 forage production (2-3 fold greater than the total area Rice 10 under cultivation and permanent crop; Table 1, Fig. Maize 9 1). All cultivated crops, except for legumes (pulses All other cereals 13 and legume oil seeds) require the soil to provide rel Total 48 atively large amounts of nitrogen (N). It is necessary for the three most important cereals, wheat (Triticum Legumes aestivum), rice (Oryza sativa) and maize (Zea mays), Legume pulses 5 to take up 20 to 40 kg soil N ha -lover a period of 3 Legume oilseeds 6 to 5 months to satisfy the N requirements of the seed and supporting vegetative structure for each tonne of Total II grain produced (e. g. Fig. 2; Myers, 1988). Produc tive pastures on the other hand may assimilate> 100 Other crops I kg N ha- each annum, of which 50 to 90% will be Other oilseeds 6 consumed by livestock in intensively grazed systems Beverages / Tobacco 7 (Ledgardy, 1991; Thomas, 1995).
Papers Presented at the Symposium on Biology, Stock Assessment, and Exploitation of Small Pelagic Fish Species in the African Great Lakes Region-Food and Agriculture Organization of the United Nations 1993
Reaping Richer Returns-Aparajita Goyal 2017-03-10 Enhancing the productivity of agriculture is vital for Sub-Saharan Africa's economic future and is one of the most important tools to end extreme poverty and boost shared prosperity in the region. How governments elect to spend public resources has significant development impact in this regard. Choosing to catalyze a shift toward more effective, efficient, and climate-resilient public spending in agriculture can accelerate change and unleash growth. Not only does agricultural public spending in Sub-Saharan Africa lag behind other developing regions but its impact is vitiated by subsidy programs and transfers that tend to benefit elites to the detriment of poor people and the agricultural sector itself. Shortcomings in the budgeting processes also reduce spending effectiveness. In light of this scenario, addressing the quality of public spending and the efficiency of resource use becomes even more important than addressing only the level of spending. Improvements in the policy environment, better institutions, and investments in rural public goods positively affect agricultural productivity. These, combined with smarter use of public funds, have helped lay the foundations for agricultural productivity growth around the world, resulting in a wealth of important lessons from which African policy makers and development practitioners can draw. 'Reaping Richer Returns: Public Spending Priorities for African Agriculture Productivity Growth' will be of particular interest to policy makers, development practitioners, and academics. The rigorous analysis presented in this book provides options for reform with a view to boosting the productivity of African

agriculture and eventually increasing development impact.
The Biology of the Naked Mole-Rat-Paul W. Sherman 2017-03-14 This volume brings together more than a decade of information collected in the field and lab on the naked mole-rat (Heterocephalus glaber), a northeast African mammal unique for its physical characteristics and eusociality. Nearly blind and virtually hairless, naked mole-rats inhabit large subterranean colonies in which only one female and her one to three mates conceive offspring, while the young from previous litters maintain and defend the group as do workers in colonies of the social insects. In this first major treatise on naked mole-rats an international group of researchers covers such topics as the evolution of eusociality, phylogeny and systematics of the rodent family Bathyergidae, population and behavioral ecology and genetics of naked mole-rats in the field, vocal and nonvocal behaviors, social organization and divisions of labor within colonies, and climatic, social, and physiological factors affecting growth, reproduction, and reproductive suppression. In addition to the editors, the contributors are D. H. Abbott, M. W. Allard, N. C. Bennett, R. A. Brett, S. H. Braude, B. Crespi, S. V. Edwards, C. G. Faulkes, L. M. George, R. L. Honeycutt, E. A. Lacey, C. E. Liddell, E. McDaid, K. Nelson, K. M. Noonan, J. O'Riain, J. W. Pepper, H. K. Reeve, and D. A. Schlitter. Originally published in 1991. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.
Zambian Papers- 1984
Harnessing Biological Nitrogen Fixation in African Agriculture-African Association for Biological Nitrogen Fixation. Conference 1998
Eastern and Southern Africa-Debby Potts 2016-02-04 A unique and comprehensive introduction to contemporary development issues in East and Southern Africa, and represents a significant departure from the often descriptive approach adopted by existing regional and development texts on African regions. Each contribution is carefully chosen to highlight the theoretical basis to development issues, and the practical problems of implementing development plans, in this vital subregion. Overall this produces comprehensive and balanced coverage of historical, economic, political and social issues. The twin issues of globalisation and modernisation give the book a clear focus.
A Directory of Libraries in Zambia-William Denis Sweeney 1979
Africa Today- 2001
An Annotated Bibliography of Environment Related Studies Done in Zambia-Mukatimui N. Kalima-Munalula 2000
Index of Conference Proceedings-British Library. Document Supply Centre 1999
A Directory of Libraries in Zambia-H. C. Woakes 1975
Agroforestry Abstracts- 1994
Easing Barriers to Movement of Plant Varieties for Agricultural Development-David Gisselquist 1997-01-01 World Bank Technical Paper No. 364. The trade policies of the countries of the Andean Group--Bolivia, Colombia, Ecuador, Peru, and Venezuela--are in the midst of rapid change, particularly in agriculture, where trade policies are being overhauled and trade rules rewritten on domestic, regional, and global levels. This paper highlights the trade options open to each country by looking at agricultural policy in light of general trade policy. The report also discusses the particular role the Andean Group is playing and how the trade pact may influence the liberalization of agricultural markets.
Index of Conference Proceedings Received-British Library. Document Supply Centre 1987
Advances in Cyanobacterial Biology-Prashant Kumar Singh 2020-02-28 Advances in Cyanobacterial Biology presents the novel, practical, and theoretical aspects of cyanobacteria, providing a better understanding of basic and advanced biotechnological application in the field of sustainable agriculture. Chapters have been designed to deal with the different aspects of cyanobacteria including their role in the evolution of life, cyanobacterial diversity and classification, isolation, and characterization of cyanobacteria through biochemical and molecular approaches, phylogeny and biogeography of cyanobacteria, symbiosis, Cyanobacterial photosynthesis, morphological and physiological adaptation to abiotic stresses, stress-tolerant cyanobacterium, biological nitrogen fixation.

Other topics include circadian rhythms, genetics and molecular biology of abiotic stress responses, application of cyanobacteria and cyanobacterial mats in wastewater treatments, use as a source of novel stress-responsive genes for development of stress tolerance and as a source of biofuels, industrial application, as biofertilizer, cyanobacterial blooms, use in Nano-technology and nanomedicines as well as potential applications. This book will be important for academics and researchers working in cyanobacteria, cyanobacterial environmental biology, cyanobacterial agriculture and cyanobacterial molecular biologists. Summarizes the various aspects of cyanobacterial research, from primary nitrogen fixation, to advanced nano-technology applications Addresses both practical and theoretical aspects of the cyanobacterial application Includes coverage of biochemical and molecular approaches for the identification, use and management of cyanobacteria

NGO Directory for Zambia- 1993

Unesco Handbook for Biology Teachers in Africa-Unesco 1986

Agricultural Development in SADCC Countries: Zambia- 1989

Books in Series- 1985 Vols. for 1980- issued in three parts: Series, Authors, and Titles.

Zambia, Poverty Reduction Strategy Paper Progress Report- 2005

Farming in Zambia- 1976

Zambian Geographical Journal- 1986

Translational Systems Biology-Yoram Vodovotz 2014-10-08 Are we satisfied with the rate of drug development? Are we happy with the drugs that come to market? Are we getting our money’s worth in spending for basic biomedical research? In Translational Systems Biology, Drs. Yoram Vodovotz and Gary An address these questions by providing a foundational description the barriers facing biomedical research today and the immediate future, and how these barriers could be overcome through the adoption of a robust and scalable approach that will form the underpinning of biomedical research for the future. By using a combination of essays providing the intellectual basis of the Translational Dilemma and reports of examples in the study of inflammation, the content of Translational Systems Biology will remain relevant as technology and knowledge advances bring broad translational applicability to other diseases. Translational systems biology is an integrated, multi-scale, evidence-based approach that combines laboratory, clinical and computational methods with an explicit goal of developing effective means of control of biological processes for improving human health and rapid clinical application. This comprehensive approach to date has been utilized for in silico studies of sepsis, trauma, hemorrhage, and traumatic brain injury, acute liver failure, wound healing, and inflammation. Provides an explicit, reasoned, and systematic approach to dealing with the challenges of translational science across disciplines Establishes the case for including computational modeling at all stages of biomedical research and healthcare delivery, from early pre-clinical studies to long-term care, by clearly delineating efficiency and costs saving important to business investment Guides readers on how to communicate across domains and disciplines, particularly between biologists and computational researchers, to effectively develop multi- and trans-disciplinary research teams

Bio-Based Materials and Biotechnologies for Eco-Efficient Construction-Fernando Pacheco-Torgal 2020-03-02 Bio-based Materials and Biotechnologies for Eco-efficient Construction fills a gap in the published literature, discussing bio-based materials and biotechnologies that are crucial for a more sustainable construction industry. With comprehensive coverage and contributions from leading experts in the field, the book includes sections on Bio-based materials and biotechnologies for infrastructure applications, Bio-based materials and biotechnologies for building energy efficiency, and other applications, such as using biotechnology to reduce indoor air pollution, for water treatment, and in soil decontamination. The book will be an essential reference resource for academic researchers, civil engineers, contractors working in construction works, postgraduate students and other professionals.

Biological Nitrogen Fixation Technology for Tropical Agriculture-Peter H. Graham 1982 Keynote addresses. Plant factors affecting N2 fixation. Technology for inoculant production. Environmental factors affecting symbiotic n2 fixation. Inoculation trials. N2 fixation in grain legumes. N2 fixation in pasture legume. N2 fixation in trees. Associative n2 fixation. The azolla/ananaena association. Critique of methodologies. The nitrogen relationships of maize/bean associations. Assessing the nitrogen contribuktion of cowpea (Vigna unguiculata) in monoculture and intercroped. Nitrogen fixation by groundnut (Arachis hypogeae) in intercropped and rotational systems. Effect of cowpeas in cereal rotations in conditions in Upper volta. Residual effects of pigeopea (Cajanus cajan). Atechology

assessment of biological nitrogen fixation. Economic analysis of biological nitrogen fixation. Research and development for biological nitrogen fixation in India. The brazilian program in biological nitrogen fixation. Internationally sponsored development of biological nitrogen fixation technology. Research on biological nitrogen fixation in the international agricultural research centers.

Translational Biology in Medicine-M. Montano 2014-12-08 The recent emphasis in biomedical research on translational biology and personalized medicine is revolutionizing conceptual and experimental approaches to understanding and improving human health. Translational Biology in Medicine begins with an introduction to experimental model systems for disease, such as cell lines, primary cells, stem cells and animal models for disease, followed by a systematic description of genetic and genomic profiling and biomarker validation currently used in biomedical research. Examples of translation studies that have used these models and methods are presented, including studies in aging, tissue repair and chronic infection, each with an emphasis on how personalized medicine is transforming biomedicine. Bioethical considerations in translational study design and bioethical considerations in biomedical research are then covered, before concluding remarks, and a look towards the future of personalized medicine. Describes cellular and animal model systems used in translational research Discusses the use of blood, genetic and genomic biomarkers for disease Presents translational studies in aging, tissue repair and infectious disease biomedicine

Agricultural Bibliography of Sudan, 1974-1983-Antoine Benjamin Zahlan 1984

Progress in Molecular Biology and Translational Science-David B. Teplow 2018-10-16 Progress in Molecular Biology and Translational Science, Volume 159, provides the most topical, informative and exciting monographs available on a wide variety of research topics related to prions, viruses, bacteria and eukaryotes. The series includes in-depth knowledge on molecular biological aspects of organismal physiology, along with insights on how this knowledge may be applied to understand and ameliorate human disease. New chapters in this release discuss timely topics, such as Targeting recently deorphanized GPR83 for the treatment of infection, stress, and drug addiction, Arrestin Structure-Function, Arrestins in the Cardiovascular System, Analysis of biased agonism, and more. Includes comprehensive coverage of molecular biology Presents ample use of tables, diagrams, schemata, and color figures to enhance the reader's ability to rapidly grasp the information provided Contains contributions from renowned experts in the field

Biology of the Nitrogen Cycle-Hermann Bothe 2007

Books in Series: Authors- 1980

Zambia Journal of Science and Technology- 1978

Algebraic and Discrete Mathematical Methods for Modern Biology-Raina Robeva 2015-05-09 Written by experts in both mathematics and biology, Algebraic and Discrete Mathematical Methods for Modern Biology offers a bridge between math and biology, providing a framework for simulating, analyzing, predicting, and modulating the behavior of complex biological systems. Each chapter begins with a question from modern biology, followed by the description of certain mathematical methods and theory appropriate in the search of answers. Every topic provides a fast-track pathway through the problem by presenting the biological foundation, covering the relevant mathematical theory, and highlighting connections between them. Many of the projects and exercises embedded in each chapter utilize specialized software, providing students with much-needed familiarity and experience with computing applications, critical components of the "modern biology" skill set. This book is appropriate for mathematics courses such as finite mathematics, discrete structures, linear algebra, abstract/modern algebra, graph theory, probability, bioinformatics, statistics, biostatistics, and modeling, as well as for biology courses such as genetics, cell and molecular biology, biochemistry, ecology, and evolution. Examines significant questions in modern biology and their mathematical treatments Presents important mathematical concepts and tools in the context of essential biology Features material of interest to students in both mathematics and biology Presents chapters in modular format so coverage need not follow the Table of Contents Introduces projects appropriate for undergraduate research Utilizes freely accessible software for visualization, simulation, and analysis in modern biology Requires no calculus as a prerequisite Provides a complete Solutions Manual Features a companion website with supplementary resources

Agrindex- 1995

Index of Conference Proceedings Received-British Library. Lending Division 1987

The Oxford Handbook of Health Economics-Sherry Glied 2011-04-07 This book provides an engaging, comprehensive review of health economics, with a focus

on policy implications in the developed and developing world. Authoritative, but non-technical, it stresses the wide reach of the discipline - across nations, health systems, and areas within health and medical care.
Tropical Pest Management- 1984
Agricultural Input Subsidies-Ephraim Chirwa 2013-09-26 This books examines an increasingly popular but controversial set of agricultural development programmes promoting smallholder agriculture and food security in low income countries, particularly in Africa, Drawing on and developing theory on these programmes, and on a wider review of recent experience in Africa, the authors provide a detailed analysis of the historical, political and agro-economic roots and context of Malawi's agricultural programme from 2005 to2011, a large and controversial programme that has been the subject a very considerable but unfortunately little informed international debate. As well as a fascinating account of the history ofdevelopment and current constraints on smallholder farming in Malawi and of the implementation of a large scale national programme, this provides critical insights into the potential benefits and risks with such programmes, and on political and technical issues that are critical in success or failure.
Advances in Herpetology and Evolutionary Biology-Ernest Edward Williams 1983

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