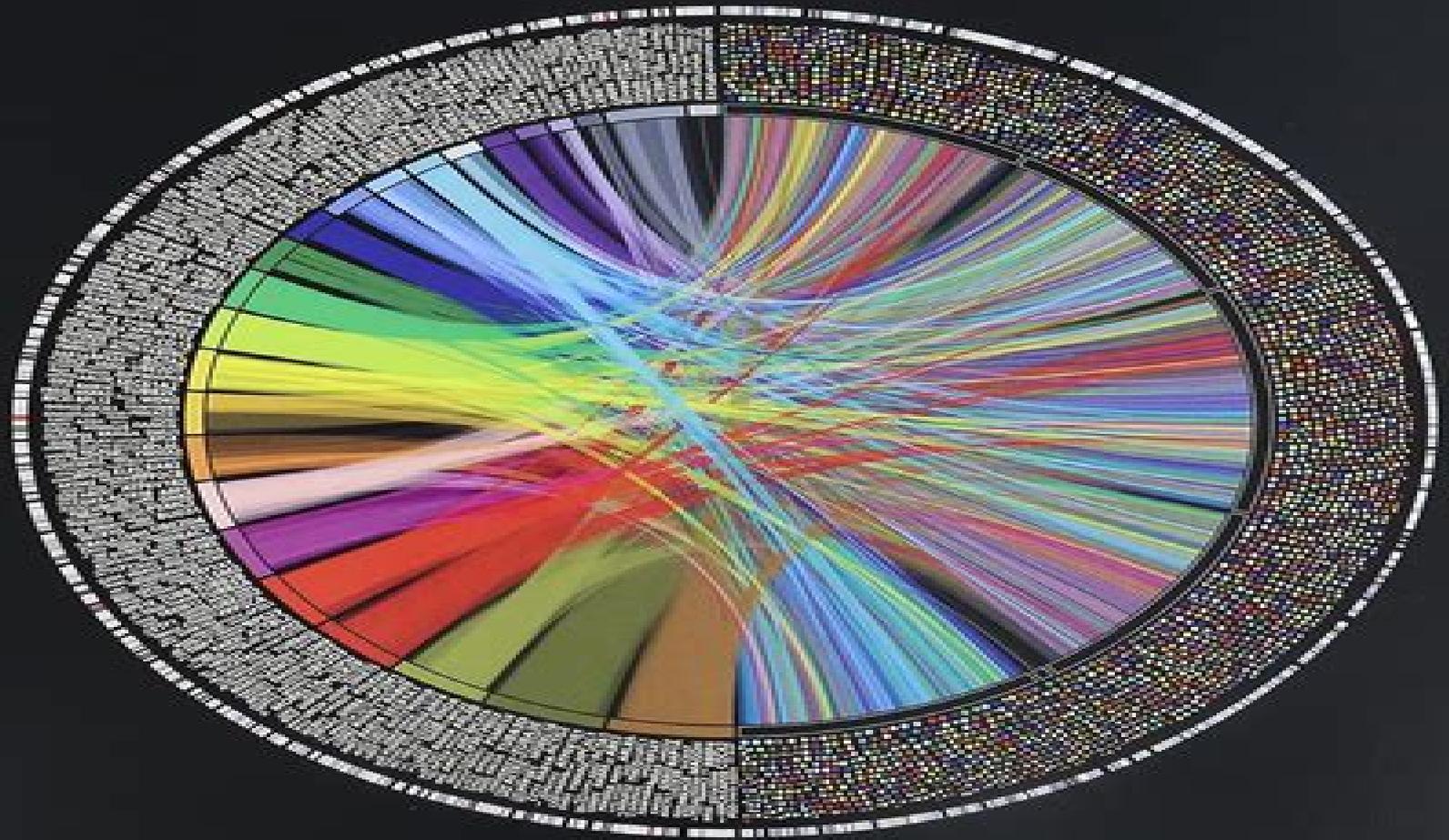


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# *i*GENETICS

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# Igenetics A Molecular Approach 3rd Edition

**Jie Chen, Yiwei Feng, Scott MacKay**



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**90 problemas resueltos de Ingeniería Genética** José Luis Micol Molina,2018-04-10 Este libro recopila los problemas que se propusieron de 2011 a 2015 a los alumnos de la asignatura de Ingenier a Gen tica de segundo curso del Grado en Biotecnolog a de la Universidad Miguel Hern ndez de Elche UMH Puede interesar tanto a estudiantes como a profesores dado que existen muy pocos libros de problemas resueltos de esta

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*Genetic Improvement of Farmed Animals* Geoff Simm, Geoff Pollott, Raphael Mrode, Ross Houston, Karen Marshall, 2020-11-26 Genetic Improvement of Farmed Animals provides a thorough grounding in the basic sciences underpinning farmed animal breeding Relating science to practical application it covers all the major farmed animal species cattle sheep goats poultry pigs and aquaculture species *Medicinal Plants for Holistic Health and Well-Being* Namrita Lall, 2017-09-27 Medicinal Plants for Holistic Health and Well Being discusses in depth the use of South African plants to treat a variety of ailments including tuberculosis cancer periodontal diseases acne postmacular hypomelanosis and more Plants were selected on the basis of their traditional use and the book details the scientific evidence that supports their pharmacological and therapeutic potential to safely and effectively treat each disease Thus this book is a valuable resource for all researchers students and professors involved in advancing global medicinal plant research Many plants found in South Africa are also found in other parts of the world Each chapter highlights plants from other worldwide locations so that

scientists can study which plants belong to the same family and how similar qualities can be used to treat a specific disease The book details the scientific evidence that supports their pharmacological and therapeutic potential to safely and effectively treat each disease Each chapter highlights plants from worldwide locations so that scientists can study plants belonging to the same family and how similar species can be used to treat a specific disease Use of traditional medicine as an efficient means to identify and further investigate South African similar plants and plant derived compounds in modern drug discovery Includes a number of chapters dedicated to using medicinal plants to treat various skin disorders which is often not covered in other books on medicinal plants Organized by specific diseases with vital evidence based data related to the bioactivity pharmacological potential chemical structure and safety information *Religie, geloof en ongeloof*, 19?? **New**

**Medical Technology In Patient Care: A Physician's Guide** Campion Quinn, 2025-03-07 In an era of unprecedented technological innovation *New Medical Technology in Patient Care: A Physicians Guide* explores the groundbreaking advances revolutionizing the world of healthcare From the diagnostic power of artificial intelligence to the precision of robotic surgery this book delves into the most exciting developments shaping the future of medicine and surgery It offers a comprehensive look at how AI algorithms are assisting physicians in interpreting complex medical data enabling faster and more accurate diagnoses while also providing insights into the life saving potential of AI driven treatment recommendations Beyond AI this book also discusses the rise of robotic surgery and 3D bioprinting By exploring these dynamic shifts in diagnosis and treatment this book prepares its readers for the next wave of medical advancements one that promises to enhance patient care save lives and redefine the practice of medicine for the 21st century and beyond **Bionanotechnology:**

**Engineering Concepts and Applications** Jie Chen, Yiwei Feng, Scott MacKay, 2022-05-06 Understand the principles practices and applications of bionanotechnology This hands on textbook covers key aspects of bionanotechnology from an engineering perspective The book delves into a wide variety of topics including materials science micro nano fabrication general physics fluid flow electromagnetics thermodynamics molecular biology immunology biochemistry and organic chemistry Developed from an advanced engineering course taught by its authors *Bionanotechnology Engineering Concepts and Applications* fully explains all of the underlying concepts and shows how that theory can be directly applied in practical applications Readers will get examples problem sets real world case studies and engineering design methodologies that illustrate each concept The book contains complete discussions on microfluidics lab on a chip devices organ on a chip devices quantum dots DNA RNA technology micro nano fabrication techniques the modelling simulation of microsystems and bionanotechnology based biosensors targeted therapies and drug delivery systems Combines many different bionanotechnology topics into one resource Based on a course developed and taught by the authors at the University of Alberta Written by recognized experts and experienced educators *Venomous River* Eli Greenbaum, 2025-10-21 Join herpetologist Eli Greenbaum on his race to identify a multitude of unidentified species in the Congo a volatile African region

overcome with population pressure military oppression and climate change These are the backdrop challenges to the science pursued by Dr Greenbaum in this timely work worthy of Darwin *Venomous River* chronicles a field scientist's search for new species in the Congo Basin one of the world's great crucibles of biodiversity in the face of climate change Although tropical forests cover less than 10 percent of Earth's land surface they are home to about two thirds of the planet's terrestrial biodiversity Unfortunately a ballooning human population has severely damaged half of the planet's pristine ecosystems and the biodiversity they contained leading to an unfolding sixth mass extinction In Joseph Conrad's famous 1899 novella *Heart of Darkness* he described the Congo River as a great snake More than a century later herpetologist evolutionary biologist and seasoned expedition leader Eli Greenbaum set out to find the Democratic Republic of the Congo's Congo for short incredible diversity of serpents in the flesh along with the country's rarest frogs lizards crocodiles and turtles which live in and along Africa's second largest river For a biologist an expedition into the heart of the Congo is a priceless gift with its incredible species known and unknown lurking around every bend in the river But the Congo is also a place of endemic political instability widespread corruption human suffering and extraordinary danger These as much as the challenges of the natural world confront any scientist doing field work in the Congo *Venomous River* is the harrowing story of a biodiversity scientist's successful quest to discover several new amphibian and reptile species in the remotest heart of Africa a wilderness where he encounters friendly peoples a cook who is revealed to be a dangerous killer highly venomous snakes and scorpions deadly tropical diseases and troubling echoes of the Congo's colonial history

### **Omics and Genome Editing** Kartika

Sharma,2025-03-15 This book offers up to date research on genome editing and omics technologies from renowned academics with established backgrounds from throughout the globe The world population is expected to touch 9 10 billion by 2050 and to feed the growing population 50% more food must be produced globally than is currently produced Nonetheless it is a difficult challenge to increase the food output of the currently existing crops on available land Over the past few decades traditional crop enhancement techniques like plant breeding and other agricultural technology have made a significant contribution to food and nutritional security With the use of strong technologies genome editing strategies can significantly improve the productivity and efficiency of current agricultural practices Discovering the underlying mechanisms influencing features of economic value has been made possible through genome editing through CRISPR Cas9 primer and base editing and OMICs through genomics proteomics metabolomics transcriptomics and phenomics This book provides a wealth of information on omics and genome editing approaches and their application to develop abiotic biotic and climate tolerant crops as well as RNA interference next generation sequencing and metabolomics for sustainable crop production Researchers are actively using both genome editing and omics for crop improvement however there is limited literature offered in a single source Undergraduate and postgraduate students researchers policymakers and stakeholders will find this book to be an invaluable resource

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**Record** ,2005

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