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KEY=HOW - SIERRA CASSIDY

The Four Stroke Dirt Bike Engine Building Handbook

Precision Engine Building Knowledge for Beginners and Experts

Salt and Drought Stress Tolerance in Plants

Signaling Networks and Adaptive Mechanisms

Springer Nature This book presents various aspects of salt and drought stress signaling in crops, combining physiological, biochemical, and molecular studies. Salt and drought stress are two major constraints on crop production worldwide. Plants possess several mechanisms to cope with the adverse effects of salt and drought. Among these mechanisms, stress signaling is very important, because it integrates and regulates nuclear gene expression and other cellular activities, which can help to restore cellular homeostasis. Accordingly, understanding the signaling cascades will help plant biologists to grasp the tolerance mechanisms that allow breeders to develop tolerant crop varieties. This book is an essential resource for researchers and graduate students working on salt and drought stress physiology and plant breeding.

Endocytosis in Plants

Springer Science & Business Media Endocytosis is a fundamental cellular process by means of which cells internalize extracellular and plasma membrane cargos for recycling or degradation. It is important for the establishment and maintenance of cell polarity, subcellular signaling and uptake of nutrients into specialized cells, but also for plant cell interactions with pathogenic and symbiotic microbes. Endocytosis starts by vesicle formation at the plasma membrane and progresses through early and late endosomal compartments. In these endosomes cargo is sorted and it is either recycled back to the plasma membrane, or degraded in the lytic vacuole. This book presents an overview of our current knowledge of endocytosis in plants with a main focus on the key molecules undergoing and regulating endocytosis. It also provides up to date methodological approaches as well as principles of protein, structural lipid, sugar and microbe internalization in plant cells. The individual chapters describe clathrin-mediated and fluid-phase endocytosis, as well as flotillin-mediated endocytosis and internalization of microbes. The book was written for a broad spectrum of readers including students, teachers and researchers.

Flowering Plants. Monocots

Poaceae

Springer This volume is the outcome of a modern phylogenetic analysis of the grass family based on multiple sources of data, in particular molecular systematic studies resulting from a concerted effort by researchers worldwide, including the author. In the classification given here grasses are subdivided into 12 subfamilies with 29 tribes and over 700 genera. The keys and descriptions for the taxa above the rank of genus are hierarchical, i.e. they concentrate upon characters which are deemed to be synapomorphic for the lineages and may be applicable only to their early-diverging taxa. Beyond the treatment of phylogeny and formal taxonomy, the author presents a wide range of information on topics such as the structural characters of grasses, their related functional aspects and particularly corresponding findings from the field of developmental genetics with inclusion of genes and gene products instrumental in the shaping of morphological traits (in which this volume appears unique within this book series); further topics addressed include the contentious time of origin of the family, the emigration of the originally shade-loving grasses out of the forest to form vast grasslands accompanied by the switch of many members to C4 photosynthesis, the impact of herbivores on the silica cycle housed in the grass phytoliths, the reproductive biology of grasses, the domestication of major cereal crops and the affinities of grasses within the newly circumscribed order Poales. This volume provides a comprehensive overview of existing knowledge on the Poaceae (Gramineae), with major implications in terms of key scientific challenges awaiting future research. It certainly will be of interest both for the grass specialist and also the generalist seeking state-of-the-art information on the diversity of grasses, the most ecologically and economically important of the families of flowering plants.

Genomic Designing for Biotic Stress Resistant Cereal Crops

Springer Nature This book presents deliberations on molecular and genomic mechanisms underlying the interactions of crop plants to the biotic stresses caused by different diseases and pests that are important to develop resistant crop varieties. Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding, transgenics, genomic-assisted breeding, and the recently emerging genome editing for developing resistant varieties in cereal crops is imperative for addressing FHNEE (food, health, nutrition, energy, and environment) security. Whole genome sequencing of these crops followed by genotyping-by-sequencing has provided precise information regarding the genes conferring resistance useful for gene discovery, allele mining, and shuttle

breeding which in turn opened up the scope for 'designing' crop genomes with resistance to biotic stresses. The eight chapters each dedicated to a cereal crop in this volume elucidate on different types of biotic stresses and their effects on and interaction with the crop; enumerate on the available genetic diversity with regard to biotic stress resistance among available cultivars; illuminate on the potential gene pools for utilization in interspecific gene transfer; present brief on classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts; depict the success stories of genetic engineering for developing biotic stress-resistant crop varieties; discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker-assisted introgression into elite varieties; enunciate on different genomics-aided techniques including genomic selection, allele mining, gene discovery, and gene pyramiding for developing adaptive crop varieties with higher quantity and quality of yields, and also elaborate some case studies on genome editing focusing on specific genes for generating biotic stress-resistant crops.

Developments in Fungal Biology and Applied Mycology

Springer This book explores the developments in important aspects of fungi related to the environment, industrial mycology, microbiology, biotechnology, and agriculture. It discusses at length both basic and applied aspects of fungi and provides up-to-date laboratory-based data. Of the estimated three million species of fungi on Earth, according to Hawksworth and coworkers, more than 100,000 have been described to date. Many fungi produce toxins, organic acids, antibiotics and other secondary metabolites, and are sources of useful biocatalysts such as cellulases, xylanases, proteases and pectinases, to mention a few. They can also cause diseases in animals as well as plants and many are able to break down complex organic molecules such as lignin and pollutants like xenobiotics, petroleum and polycyclic aromatic compounds. Current research on mushrooms focuses on their hypoglycemic, anti-cancer, anti-pathogenic and immunity-enhancing activities. This ready-reference resource on various aspects of fungi is intended for graduate and post-graduate students as well as researchers in life sciences, microbiology, botany, environmental sciences and biotechnology.

Stem Cell Biology

CSHL Press Stem cells are the focus of intense interest from a growing, multidisciplinary community of investigators with new tools for isolating and characterizing these elusive cell types. This volume, which features contributions from many of the world's leading laboratories, provides a uniquely broad and authoritative basis for understanding the biology of stem cells and the current excitement about their potential for clinical exploitation. It is an essential work of reference for investigators in embryology, hematology, and

neurobiology, and their potential for clinical exploitation. It is an essential work of reference for investigators in embryology, hematology, and neurobiology, and their collaborators in the emerging field of regenerative medicine.

Oil Crop Genomics

Springer Nature

Rice Genetics V

Proceedings of the Fifth International Rice Genetics Symposium, the Philippines, 19-23 November 2005

World Scientific Rice is now the model plant for genetic research on crop plants; and those who work on rice do so not only to help grow and eat it, but also to advance the frontiers of genetics and molecular biology. Progress made in the last 20 years, since the first International Rice Genetics Symposium (IRGS), has made rice the organism of choice for research on crop plants, and it has become a reference genome. This volume is a collection of the papers presented at the Fifth IRGS in 2005. It reports the latest developments in the field and includes research on breeding, mapping of genes and quantitative trait loci, identification and cloning of candidate genes for biotic and abiotic stresses, gene expression, as well as genomic databases and mutant induction for functional genomics.

Advances in Wheat Genetics: From Genome to Field

Proceedings of the 12th International Wheat Genetics

Symposium

Springer This proceedings is a collection of 46 selected papers that were presented at the 12th International Wheat Genetics Symposium (IWGS). Since the launch of the wheat genome sequencing project in 2005, the arrival of draft genome sequences has marked a new era in wheat genetics and genomics, catalyzing rapid advancement in the field. This book provides a comprehensive review of the forefront of wheat research, across various important topics such as germplasm and genetic diversity, cytogenetics and allopolyploid evolution, genome sequencing, structural and functional genomics, gene function and molecular biology, biotic stress, abiotic stress, grain quality, and classical and molecular breeding. Following an introduction, 9 parts of the book are dedicated to each of these topics. A final, 11th part entitled "Toward Sustainable Wheat Production" contains 7 excellent papers that were presented in the 12th IWGS Special Session supported by the OECD. With rapid population growth and radical climate changes, the world faces a global food crisis and is in need of another Green Revolution to boost yields of wheat and other widely grown staple crops. Although this book focuses on wheat, many of the newly developed techniques and results presented here can be applied to other plant species with large and complex genomes. As such, this volume is highly recommended for all students and researchers in wheat sciences and related plant sciences and for those who are interested in stable food production and food security.

Petunia

Evolutionary, Developmental and Physiological Genetics

Springer Science & Business Media Petunia belongs to the family of the Solanaceae and as such is closely related to important crop species like tomato, potato, eggplant, pepper and tobacco. With around 35 species described it is one of the smaller genera and among those there are two groups of species that make up the majority of them: the purple flowered P.integrifolia group and the white flowered P.axillaris group. It is assumed that interspecific hybrids between members of these two groups have laid the foundation for the huge variation in cultivars as selected from the 1830's onwards. Petunia thus has been a commercially important ornamental since the early days of horticulture. Despite that, Petunia was in use as a research model only parsimoniously until the late fifties of the last century. By then seed companies started to fund academic research, initially with the main aim to develop new color varieties. Besides a moment of glory around 1980 (being elected a promising model system, just prior to the Arabidopsis boom),

Petunia has long been a system in the shadow. Up to the early eighties no more than five groups developed classical and biochemical genetics, almost exclusively on flower color genes. Then from the early eighties onward, interest has slowly been growing and nowadays some 20-25 academic groups around the world are using Petunia as their main model system for a variety of research purposes, while a number of smaller and larger companies are developing further new varieties. At present the system is gaining credibility for a number of reasons, a very important one being that it is now generally realized that only comparative biology will reveal the real roots of evolutionary development of processes like pollination syndromes, floral development, scent emission, seed survival strategies and the like. As a system to work with, Petunia combines advantages from several other model species: it is easy to grow, sets abundant seeds, while self- and cross pollination is easy; its lifecycle is four months from seed to seed; plants can be grown very densely, in 1 cm² plugs and can be rescued easily upon flowering, which makes even huge selection plots easy to handle. Its flowers (and indeed leaves) are relatively large and thus obtaining biochemical samples is no problem. Moreover, transformation and regeneration from leaf disc or protoplast are long established and easy-to-perform procedures. On top of this easiness in culture, Petunia harbors an endogenous, very active transposable element system, which is being used to great advantage in both forward and reverse genetics screens. The virtues of Petunia as a model system have only partly been highlighted. In a first monograph, edited by K. Sink and published in 1984, the emphasis was mainly on taxonomy, morphology, classical and biochemical genetics, cytogenetics, physiology and a number of topical subjects. At that time, little molecular data was available. Taking into account that that first monograph will be offered electronically as a supplement in this upcoming edition, we would like to put the overall emphasis for the second edition on molecular developments and on comparative issues. To this end we propose the underneath set up, where chapters will be brief and topical. Each chapter will present the historical setting of its subject, the comparison with other systems (if available) and the unique progress as made in Petunia. We expect that the second edition of the Petunia monograph will draw a broad readership both in academia and industry and hope that it will contribute to a further expansion in research on this wonderful Solanaceae.

Current Advances in Molecular Mycology

Nova Science Pub Incorporated Molecular mycology has been playing a pivotal role in 21st century. It is emerging with full impact. It is multi-disciplinary and includes molecular markers, recombinant DNA techniques, cloning, phylogeny and bioinformatics. Varying in application of concepts, practice, scale, style and substance, molecular mycology is amongst the latest globalising frontiers of the corporate world. This branch is being regarded as a core subject in many colleges and universities. In the book, various topics on molecular mycology are uniquely combined to provide a complete overview of the subject. The book addresses the role of molecular

and bioinformatics tools in solving the problems of identification of fungi and discusses current trends in Molecular Mycology.

Physiological Mechanisms and Adaptation Strategies in Plants Under Changing Environment

Volume 2

Springer Science & Business Media Abiotic stress has a detrimental impact on the living organisms in a specific environment and constitutes a major constraint to global agricultural production. The adverse environmental conditions that plants encounter during their life cycle not only disturb their metabolic reactions, but also hamper their growth and development on cellular and whole plant levels. These conditions are of great concern, particularly for those countries whose economies primarily rely on agriculture. Under abiotic stresses, plants amalgamate multiple external stress cues to bring about a coordinated response and establish mechanisms to mitigate such stresses by triggering a cascade of events leading to enhanced tolerance. Physiological Mechanisms and Adaptation Strategies in Plants under Changing Environment, Volume 2 displays the ways by which plants utilize and integrate many common signals and subsequent pathways to cope with less favourable environmental conditions. The book also describes the use of contemporary tools for the improvement of plants under such stressed environments. Concise yet comprehensive, Physiological Mechanisms and Adaptation Strategies in Plants under Changing Environment, Volume 2 is an indispensable resource for researchers, students, environmentalists and many others in this burgeoning area of research.

Love, Lavender Pen

A Collection of Words, Rhymes, and Poetries

Love, Lavender Pen is a collection of words, rhymes, and poetries.

The Life of Sir Walter Raleigh: Letters

Genomics-Assisted Crop Improvement

Vol 1: Genomics Approaches and Platforms

Springer Science & Business Media This superb volume provides a critical assessment of genomics tools and approaches for crop breeding. Volume 1 presents the status and availability of genomic resources and platforms, and also devises strategies and approaches for effectively exploiting genomics research. Volume 2 goes into detail on a number of case studies of several important crop and plant species that summarize both the achievements and limitations of genomics research for crop improvement.

Earthquake Resistant Buildings

Dynamic Analyses, Numerical Computations, Codified Methods, Case Studies and Examples

Springer Science & Business Media This concise work provides a general introduction to the design of buildings which must be resistant to the effect of earthquakes. A major part of this design involves the building structure which has a primary role in preventing serious damage or structural collapse. Much of the material presented in this book examines building structures. Due to the recent discovery of vertical components, it examines not only the resistance to lateral forces but also analyses the disastrous influence of vertical components. The work is written for Practicing Civil, Structural, and Mechanical Engineers, Seismologists and Geoscientists. It serves as a knowledge source for graduate students and their instructors.

Em Choi (I Play)

Mercedes and the Chocolate Pilot

A True Story of the Berlin Airlift and the Candy That Dropped from the Sky

Sleeping Bear Press A True Story of the Berlin Airlift and the Candy that Dropped from the Sky. Life was grim in 1948 West Berlin, Germany. Josef Stalin blockaded all ground routes coming in and out of Berlin to cut off West Berliners from all food and essential supplies. Without outside help, over 2.2 million people would die. Thus began the Berlin Airlift, a humanitarian rescue mission that utilized British and American airplanes and pilots to fly in needed supplies. As one of the American pilots participating in the Airlift mission, Lt. Gail S. Halvorsen helped to provide not only nourishment to the children but also gave them a reason to hope for a better world. From one thoughtful, generous act came a lifelong relationship between Lt. Gail and the children of Berlin. This is the true story of a seven-year-old girl named Mercedes who lived in West Berlin during the Airlift and of the American who came to be known as the Chocolate Pilot. Artist Gijsbert van Frankenhuyzen's evocative paintings illuminate Margot Theis Raven's powerful story of hope, friendship and remembrance. About the Author: Margot Theis Raven has been a professional writer working in the fields of radio, television, magazines, newspapers, and children's books for thirty years. She has won five national awards, including an IRA Teacher's Choice award. Ms. Raven earned her degree in English from Rosemont College and attended Villanova University for theater study, and Kent State University for German language. Ms. Raven splits her time living in Concord, MA, Charleston, SC and West Chesterfield, NH. About the Illustrator: Born in the Netherlands, Gijsbert van Frankenhuyzen studied at the Royal Academy of Arts in Holland. He immigrated to the United States in 1976, and years later he became a children's book illustrator. Mercedes and the Chocolate Pilot is Nick's ninth children's book with Sleeping Bear Press.

The Cambridge Magazine

Plant Signaling Peptides

Springer Science & Business Media Plants have evolved with a complex array of signaling molecules to facilitate their growth and development and their interactions with the environment. A vast number of different peptide molecules form an important but until recently often overlooked component amongst these signaling molecules. Plant peptide signals are involved in regulating meristem growth and organogenesis, modulating plant growth and homeostatic responses. They also have important roles as signals of imminent danger or pathogen attack. This volume focuses on the roles of various peptide signaling molecules in development, defence and homeostasis. As it is likely that further plant peptide signaling molecules remain to be discovered, the last section takes a practical look at methods to identify new peptides and characterise their functions.

Introduction to Radar Using Python and MATLAB

Artech House This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination.

Honda Accord 1994-1997

Haynes Manuals N. America, Incorporated There is a Haynes manual for most popular domestic and import cars, trucks, and motorcycles. By conducting complete tear-downs and rebuilds, the Haynes staff has discovered all the problems owners will find in rebuilding or repairing their vehicle. Documenting the process in hundreds of illustrations and clear step-by-step instructions makes every expert tip easy to follow. From simple maintenance to trouble-shooting and complete engine rebuilds, it's easy with Haynes.

Penpal

1000Vultures

Unstoppable

Unstoppable is a word defined as "difficult or impossible to preclude or stop." As a human quality, it is something that we associate with people such as sports superstars, those who do whatever it takes to inspire others and lead teams to the greatest of victories. Sometimes, an idea or person can become unstoppable. Unstoppable, like Charles Lindbergh crossing the Atlantic in a solo flight when no one had thought it was possible, or track star Roger Bannister breaking the four-minute mile barrier. Not everyone can be an explorer or a great athlete, but anyone can be unstoppable in their chosen endeavors in life. If you are willing to possess an unwavering determination to succeed and a consistent willingness to learn and evolve, you can become unstoppable and triumph too. This book is about a personal struggle, one in which the author awoke from a coma after a terrible accident and faced a life of permanent paralysis. A long battle of driven determination resulted in Yanni Raz regaining his health and becoming a self-made millionaire after migrating from his native Israel to the United States. Through careers as a musician, a Starbucks barista, a salesman, a real estate whiz, a professional poker player and a hard money lender, Yanni learned reliable principles and the skills necessary for success. Unstoppable covers many topics including controlling your life, making the best decisions, creating new opportunities, properly assessing signals, expertly negotiating, and succeeding by storytelling across the media landscape. You'll learn about integrity in business, asset diversification, and many other life tips that thousands of people learn from Yanni on a daily basis. It is time to become fearless and lead a powerful life. With Yanni's new book Unstoppable, you can do just that.

Coach Gift

Cute and Funny 6x9 100 Pages Notebook, Floral Design

Coach Gift Features: Simple and elegant. 100 pages, high quality cover and (6 x 9) inches in size.

The Army at War

Sunny Buick

Blurb A colorful, magic, visual journey through the mind of Sunny Buick. Her powerful imagery contains references to many popular subjects and sub cultures. Using creativity and humor, she courageously shows a possible surreal future filled with chimera, animals, tattooed folks amongst strange vegetation.

High Performance Computing for Computational Science - VECPAR 2002

5th International Conference, Porto, Portugal, June 26-28, 2002. Selected Papers and Invited Talks

Springer Science & Business Media This book constitutes the thoroughly refereed post-proceedings of the 5th International Conference on High Performance Computing for Computational Science, VECPAR 2002, held in Porto, Portugal in June 2002. The 45 revised full papers presented together with 4 invited papers were carefully selected during two rounds of reviewing and improvement. The papers

are organized in topical sections on fluids and structures, data mining, computing in chemistry and biology, problem solving environments, computational linear and non-linear algebra, cluster computing, imaging, and software tools and environments.

IGF Code

International Code of Safety for Ships Using Gases Or Low Flashpoint Fuels

IGF = International code for ships fuelled by gases or other low-flashpoint fuels

Instagram Marketing

A Beginners Guide to Leveraging Social Media Marketing, Influencers, and Advertising to Grow Your Business!

This book covers the topic of Instagram and will educate you on how this social media platform can be used to grow a large following, build a strong brand image, and increase your sales figures. Inside, you will learn about how the Instagram algorithm works, how to create content that will attract new customers, and how to use a variety of advertising methods to grow your business on Instagram. Also included is a section covering the other social media platforms you might like to make use of when growing your business, and the features, pros, and cons of each. At the completion of this book you will have a good understanding of how to use Instagram to your advantage and be armed with a variety of strategies to increase your following and sales alike! Here Is A Preview Of What You'll Learn About Inside? What Is Instagram Marketing How To Grow Your Business With Instagram Strategies For Increasing Your Following How To Run Ads On Instagram Influencer Marketing Examples Of Successful Instagram Marketing Campaigns Other Social

Media Platforms To Grow Your BusinessMuch, Much More!

Teach Your Dragon To Understand Consequences A Dragon Book To Teach Children About Choices and Consequences. A Cute Children Story To Teach Kids Great Lessons About Possible Consequences of Small Actions and How To Make Good Choices.

Dg Books Publishing A Dragon Book To Teach Children About Choices and Consequences. A Cute Children Story To Teach Kids Great Lessons About Possible Consequences of Small Actions and How To Make Good Choices.

Plant Salt Tolerance

Methods and Protocols

Humana Press Soil salinity is destroying several hectares of arable land every minute. Because remedial land management cannot completely solve the problem, salt tolerant crops or plant species able to remove excessive salt from the soil could contribute significantly to managing the salinity problem. The key to engineering crops for salt tolerance lies in a thorough understanding of the physiological mechanisms underlying the adaptive responses of plants to salinity. Plant Salt Tolerance: Methods and Protocols describes recent advances and techniques employed by researchers to understand the molecular and ionic basis of salinity tolerance and to investigate the mechanisms of salt stress perception and signalling in plants. With chapters written by leading international scientists, this book covers nearly 30 different methods, such as microelectrode and molecular methods, imaging techniques, as well as various biochemical assays. Written in the highly successful Methods in Molecular Biology™ series format, chapters contain

introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Plant Salt Tolerance: Methods and Protocols serves as an essential read for every student or researcher tackling various aspects of the salinity problem.

Yamaha YZF-R1 1998-2003

Haynes Manuals N. America, Incorporated Yamaha YZF-R1 1998-2003

Grotto of Chaos

The Exploits of Clarence Griffin Book 1

13-year old Clarence Griffin was on a weekend camping trip with his family and friends. His excursion turned out to be more than he bargained for when he was plunged into a world of deep peril filled with unworldly predators and dangers unseen within the darkest depths. Armed with only his slingshot and the equipment on his back, he must rely on his own survival skills and the talents of his three best friends and his little sister. Can he continue to defy inevitable demise and use his leadership to save himself and his companions in an unfamiliar realm?

Rice Protocols

Humana Press With the completion of a finished rice genome sequence, increasing efforts have focused on functional characterization of rice genes, elucidation of the underlying mechanisms involved in major agronomic traits (e.g., high yield, grain quality, abiotic stress tolerance, and disease resistance), and the subsequent translation of genomic knowledge into agricultural productivity via molecular breeding and improved cultural practice. To meet increasing interest in this field, Rice Protocols has been compiled to provide a series of core techniques and approaches commonly used in studying rice molecular biology and functional genomics. These approaches include genetic and molecular techniques such as artificial hybridization, fluorescence in situ hybridization, generation and characterization of chemical and T-DNA insertional mutants, quantitative trait loci (QTLs) analysis and map-based cloning, site-specific transgene integration, and artificial microRNA-mediated gene silencing, along with a variety of “omics” techniques. 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. Authoritative and easy to use, Rice Protocols will prove useful for both beginners and experienced researchers whether they are molecular biologists who want to study rice plants or rice researchers who are interested in learning molecular techniques.