

Boletim Informativo de E-books

VOLUME III, EDIÇÃO II

FEV. 2020

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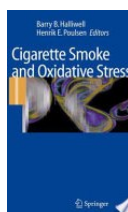


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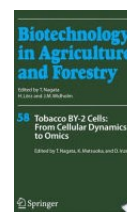
EISENMAN, R. N. *The Myc/Max/Mad transcription factor network*. Berlin, Heidelberg: Springer, 2006.

Intense study of the enigmatic myc proto-oncogene over the last 20 years has broadened our view of its functions and led to insights into transcriptional regulation as well as cancer etiology, cell proliferation, apoptosis, and organismal development. How can one gene be involved in so many aspects of cellular behavior? Of particular interest is the fact that the Myc protein functions as part of a network (comprising Myc, Max, and Mad proteins) whose specific interactions direct transcriptional activation or repression of a large number of target genes. The chapters in this volume examine both molecular and biological aspects of the Myc/Max/Mad network. Included are contributions concerning the regulation of its expression, the mechanisms underlying its diverse transcriptional activities, the structural bases for its critical interactions, and the nature of its target genes. Other chapters explore the evolution of the network, its role in development and genomic instability, and the evidence for a parallel transcriptional network. Overall, this volume provides a broad and current overview of research on a crucial group of transcription factors.



HALLIWELL, B. B. *Cigarette smoke and oxidative stress*. Berlin, Heidelberg: Springer, 2006.

From a public health point of view, there is little doubt that one of the most important preventable causes of disease worldwide is tobacco smoking. It is also clear that tobacco smoke contains a vast number of chemicals with important biological effects in disease processes. The gas phase of tobacco smoke is oxidizing, the tar phase is reducing, and whole smoke is roughly neutral, so its effects on oxidative stress may be an "antioxidant paradox". From a scientific point of view, we found it of interest to make a comprehensive overview of what we presently know about oxidative stress and tobacco smoke, because smoking is presently the best-known common condition associated with oxidative stress, and it may serve as a model for others. To this end, we have asked distinguished researchers from the public and the private sectors to evaluate the present scientific status in their particular area. Authors were selected purely because of their scientific merits. We do not claim that all the well-described health hazards associated with cigarette smoking stem from oxidative stress, nor should we. However, we ought to be able to find out, and for some of those health hazards, we can already say. We hope this book will stimulate more research to find answers to the remaining questions.



NAGATA, T. *Tobacco BY-2 cells from cellular dynamics to omics*. Berlin, Heidelberg: Springer, 2006.

It is our utmost pleasure to present a new book on tobacco BY-2 cells, Tobacco BY-2 cells: from cellular dynamics to omics, as the 58th volume in the book series Biotechnology in agriculture and forestry (BAF). It represents an extension of the previous book Tobacco BY-2 cells, vol. 53 of the BAF. Moreover, the content is rather different from the latter and includes new topics, gleaned from the First international symposium on tobacco BY-2 cells held at the Plant Science Center of the RIKEN, Yokohama, organized by Nagata, Matsuoka and Inze, in September 2004. To this symposium came more than 200 people from different parts of the world to discuss issues. Although most of the contributors to the previous volume of Tobacco BY-2 cells gave talks on their subjects, there were many other speakers who presented new topics and approaches. So we enjoyed the symposium very much. Thus we decided to compile a new volume on tobacco BY-2 cells which includes these new topics. In addition, towards the end of the symposium, our common understanding was that the tobacco BY-2 cell system is still important in plant biology, in particular for studying the dynamic features of plant cells. We hope this volume is useful for plant biologists.

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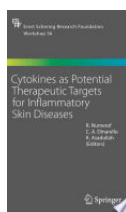
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NUMEROF, R. *Cytokines as potential therapeutic targets for inflammatory skin diseases*. Berlin, Heidelberg: Springer, 2006.

Cytokines and cytokine receptors remain an area of great interest for the development of targeted therapies for cutaneous inflammatory diseases. Anti-TNF therapeutics have proven to be effective in the treatment of psoriasis, and clinical investigations have now begun for other cytokine-directed therapies, such as those targeting IFN- γ , IL-12p40, and IL-18. In addition to therapeutics that target cytokines directly, strategies that target cytokine signaling pathways are in development. This book summarizes the findings of the 56th International workshop of the Ernst Schering Research Foundation that focused on "Cytokines as potential therapeutic targets for inflammatory skin diseases".



PEASE, S. *Mammalian and avian transgenesis new approaches*. Berlin, Heidelberg: Springer, 2006.

Mammalian and avian transgenesis presents a collection of novel methods for the production of a wide range of transgenic animals. The manual focuses largely on mice, but also contains protocols for successful transgenesis in rats, cows, pigs and birds. The manual provides detailed, step-by-step protocols covering all aspects of the production of transgenic animals, including the use of lentiviral vectors in gene transfer, intracytoplasmic sperm injection, nuclear transfer, large insert transgenesis, conditional gene expression systems, the use of reporter genes in transgenesis and transgenesis in large animals and birds. The text is supplemented by superb color photos. While the focus is on newly established techniques, the fundamental methods of transgenesis are also covered for those new to the field. Thus this manual is perfectly suited for those wishing to adopt new technologies in transgenesis.



RAGHAVAN, V. *Double fertilization embryo and endosperm development in flowering plants*. Berlin, Heidelberg: Springer, 2006.

"Double fertilization" provides a comprehensive overview of all aspects of this central event in the reproduction and development of flowering plants. Written by Val Raghavan, The Ohio State University, an acknowledged expert in plant developmental biology, the book vividly describes the molecular and cellular steps of the unique and complex fertilization process that culminates in the formation of embryo and endosperm, focusing on the latest results from the model plant *Arabidopsis*. The text is complemented by excellent illustrations, including 16 color plates. Since embryo and endosperm constitute the edible parts of many seeds and grains widely used in human and animal nutrition, an understanding of the fertilization process has great relevance for genetic engineering aimed at improving the nutritional quality of crop plants. This book is ideally suited to researchers and graduate students seeking a coherent view of current perspectives on embryogenesis and endosperm development in flowering plants.

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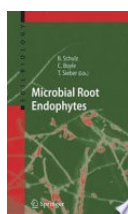
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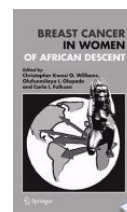
SCHULZ, B. J. E. *Microbial root endophytes*. Berlin, Heidelberg: Springer, 2006.

Plant roots may not only be colonized by mycorrhizal fungi, but also by a myriad of bacterial and fungal root endophytes that are usually not considered by the investigators of classic symbioses. This is the first book dedicated to the interactions of non-mycorrhizal microbial endophytes with plant roots. The phenotypes of these interactions can be extremely plastic, depending on environmental factors, nutritional status, genetic disposition and developmental stages of the two partners. The book deals with diversity, life history strategies, interactions, applications in agriculture and forestry, methods for isolation, cultivation, and both conventional and molecular methods for identification and detection of these endophytes. The comprehensive reviews demonstrate the high diversity of interactions and will provoke further studies to better understand the mechanisms which determine whether a plant-microbial interaction remains asymptomatic, leads to disease or to a mutualistic interaction.



THOMSEN, H. S. *Contrast media safety issues and ESUR guidelines*. Berlin, Heidelberg: Springer, 2006.

In 1994 the European Society of Urogenital Radiology (ESUR) set up a committee to consider the safety of the contrast media used for diagnostic imaging. Since then, the committee has questioned members, reviewed the literature, proposed guidelines, and discussed these proposals with participants at the annual symposia on urogenital radiology. This book represents the end result of this work. Each topic has been updated by individual members of the committee. The many different safety issues relating to the diverse contrast media: iodinated contrast media, barium contrast media, MR contrast media (both gadolinium-based extracellular and organ-specific) and ultrasound contrast media are comprehensively covered. The text includes chapters on the prevention and treatment of both acute and delayed non-renal adverse reactions as well as renal adverse reactions. Finally the official ESUR guidelines agreed upon by the whole committee are included. The book offers an invaluable, unique and unparalleled resource for safety issues related to contrast media.



WILLIAMS, C. K. O. *Breast cancer in women of African descent*. Dordrecht: Springer, 2006.

Although there are numerous technical-scientific books on breast cancer in the global bibliography, such books deal exclusively with the nature of the disease in majority populations of the Western societies, with little or no reference to the nature of the disease in the minority populations in such societies. Similarly, the nature of breast cancer in black women of the less privileged societies, and in women of ethnic groups living in countries of similar socio-economic status, is virtually unknown. For various epidemiological reasons, breast cancer incidence is rapidly increasing in these counties, more so than currently is the case in developed countries. Thus, the global burden of cancer is shifting gradually to these areas of the world, and may equal or even surpass the breast cancer burden in the Western societies within the foreseeable future. This book is unique because it bucks the trend of virtually all other breast cancer books by addressing specifically the breast cancer experience of women of african descent and their lifestyle counterparts in other societies of the world.

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