

GENOMIC CONTROL PROCESS

Development and Evolution

Isabelle S. Peter

Eric H. Davidson

California Institute of Technology, Pasadena, CA

This is THE definitive book on developmental gene regulatory networks. Davidson and Peter clearly and precisely synthesize virtually all known information on gene regulatory relationships in a plethora of organisms ranging from flies to mammals. The book is a tour de force and a "must read" for all developmental and systems biologists interested in genomics and transcriptional control mechanisms.

Marianne Bronner - Division of Biology and Biological Engineering, California Institute of Technology

Eric Davidson has written a series of incisive books on developmental gene regulatory networks, and his latest, with Coauthor Isabelle Peter, is the most valuable yet. This new volume adds detailed discussions of models of GRNs to a perceptive synthesis of the available experimental data on developmental mechanisms. Of particular note are the extensive discussion of evolution at different levels of the GRN hierarchy, and their implications for animal macroevolution and phylogeny.

Doug Erwin - Department of Paleobiology, Smithsonian National Museum of Natural History

This is the book that the whole field of Developmental Biology has been waiting for. Peter and Davidson synthesise an enormous amount of information into a logical set of chapters, which take the reader through the complexities of gene regulatory network control of development. The authors use up-to-date examples from a wide range of developmental systems, and therefore have produced both a highly educational textbook as well as a valuable resource for active researchers in the field.

Bertie Gottgens - Department of Haematology, Cambridge Institute for Medical Research

It is beautifully written and presented, and very clear. . . The diagrams are detailed but at the same time very clear, and well-chosen in all cases. In addition to being a very stimulating read, this will be an extremely useful reference book for many people, who will use it as a source of logically integrated information, for which the network diagrams provide rapid access to the essence of each example. It is a landmark contribution to the interpretation of the genome sequence . . .

Roger Patient - Weatherall Institute of Molecular Medicine, University of Oxford



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