

This is the first book in the field of mouse genetics describing comprehensive and standardized methods for the characterization of laboratory mice. It provides a brief introduction to the mouse as a model for diseases and functional analysis of genes and proteins. Throughout, it is focused on the characterization of mouse models using the latest phenotyping methods, with the different areas presented in a clearly structured and easily accessible manner.



Martin Hrabé de Angelis is director of the Institute of Experimental Genetics at the GSF National Research Centre for Environment and Health in Munich. He holds the chair for Experimental Genetics at the Technical University in Munich and serves as director of the European Mouse Mutant Archive in Monterotondo, Rome, Italy. He studied at the Philipps University in Marburg receiving his PhD in 1994. He then worked as a postdoctoral fellow at the Jackson Laboratory in Bar Harbor, USA until 1997 when he started his own research group at the GSF. In 2001 he founded the German Mouse Clinic (GMC) for comprehensive phenotyping of mouse models. Professor Hrabé de Angelis's research focuses on large scale mutagenesis, functional genomics using mouse models for the understanding of inherited diseases in man, the Delta/Notch pathway and bone related diseases.



Pierre Chambon, Professor Emeritus at the Collège de France, is the founder and Honorary Director of the Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC) at Strasbourg-Illkirch and of the Institut Clinique de la Souris (ICS). He is currently the Director of the Génomus Strasbourg Alsace-Lorraine. He is a member of the French Académie des Sciences, as well as a Foreign Member of the National Academy of Sciences (USA) and of the Royal Swedish Academy of Sciences. He has won numerous international prizes, including the 2004 Lasker Basic Medical Research Award for the discovery of the superfamily of nuclear hormone receptors and the elucidation of a unifying mechanism that regulates embryonic development and diverse metabolic pathways. Professor Chambon serves on a number of editorial boards, and is the author of more than 800 publications.



Steve Brown is Director of the Medical Research Council's Mammalian Genetics Unit at Harwell, Oxfordshire, UK. He gained his PhD from Cambridge University, and before joining the MRC, was Professor of Genetics at Imperial College, London. His research interests cover mouse functional genomics, with a particular focus on the use of mouse models to study the molecular basis of genetic deafness. Dr. Brown is a fellow of the Academy of Medical Sciences, a member of the European Molecular Biology Organisation and the author of 200 scientific publications.

ISBN 3-527-31031-2



www.wiley-vch.de

9 783527 310319