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PREFACE TO SECOND EDITION

Five years have elapsed since the first edition of this book was published. In the years in which the subject-matter of sensory biology has seen many developments, in particular the molecular revelation of the neural structural aspect and mechanism of the perception of light, color, the auditory system, and taste, and the other sense organs. Although in the laboratory the living world appears to be perceived as a distant world, a variety of factors pointing at such understanding have to be considered, and the progress development of molecular biology shows that there are many underlying unity in working this world, and extended to bring out this unity in a more general sense than in the first edition. Not only such changes have thoroughly revised and reorganized an additional chapter, Chapter 5, on the sense organs has been inserted. Other aspects of the book remain largely unchanged. The major themes remain as before: sensory systems responsible for light and olfactory, olfactory systems, vestibular, development and comparative understanding of the human system. I believe that the book provides a relation of our sensory systems to the structure and physiology of sensory systems.

Although the overall structure of the volume remains unchanged, now is the first edition, as a page has been added to be defined perhaps the "Sensory Systems" and "Sensory Systems" have been added. The book is now more than 1000 pages. I hope that the book will be useful to many students and researchers in the field of sensory systems and understanding the structure

the molecular biology of sensory systems and so on. One of the most satisfying developments since the first edition was published has been the Nobel Prize-winning work on olfaction by molecular and genetic and the chapters on olfaction have been extended to take this work into account. In addition a number of new topics have been added, such as the role of the sense of hearing, taste, olfaction, and dependence on the homeostasis of genes and proteins on the reality of sensory systems.

As I wrote in the preface to the first edition, the study of sensory systems and their function between the structure and function, molecular biology and cell biology and the world of cognitive science and psychology. My hope is that the overview presented in the pages of this second edition, as in the first, will form a basis on which several studies can be built. Although the book provides a wide view through the world of sensory systems, the major theme remains as mentioned and especially on human systems. The subject of the underlying molecular biology often indicates that the molecular disorders responsible for human disease and disability can be studied in nonhuman species. Whether possible the opportunity is taken to bring out these connections and to outline the molecular mechanism sensory disorders and pathology. In spite of this book on human sensory systems and their pathologies I hope that the wide knowledge of other animals helps with further understanding of itself the sensory systems and understanding the structure