

1. Record Nr.	UNINA9910831170403321
Autore	Smith C. U. M (Christopher Upham Murray)
Titolo	Biology of sensory systems [[electronic resource] /] / C.U.M. Smith
Pubbl/distr/stampa	Chichester, UK ; ; Hoboken, NJ, : John Wiley & Sons, 2008
ISBN	1-282-34854-X 9786612348549 0-470-69437-8 0-470-69438-6
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (536 p.)
Disciplina	573.87 612.8
Soggetti	Senses and sensation Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record
Nota di bibliografia	Includes bibliographical references (p. [493]-495) and index
Nota di contenuto	Biology of Sensory Systems; CONTENTS; Preface to Second Edition; Preface to First Edition; PART I:PRELIMINARIES; Chapter 1 Elements; Chapter 2 Membranes, Action Potentials, Synapses; Chapter 3 General Features of Sensory Systems; Chapter 4 Classification and Phylogeny; Chapter 5 Genes, Genomics and Neurosensory Systems; PART II: MECHANOSENSITIVITY; Chapter 6 Mechanosensitivity of Cell Membranes; Chapter 7 Kinaesthesia; Chapter 8 Touch; Chapter 9 Equilibrium and Hearing: The Uses of Hair Cells; Chapter 10 Cerebral Analysis; PART III:CHEMOSENSITIVITY; Chapter 11 Chemosensitivity in Prokaryocytes Chapter 12 Mammalian Chemo- Enteroreceptors Chapter 13 Gustation; Chapter 14 Olfaction; PART IV:PHOTORECEPTORS; Box 14.1 Bacteriorhodopsin; Chapter 15 Invertebrate Vision; Chapter 16 The Human Eye; Chapter 17 The Retina; Chapter 18 Visual Pathways and Cortices; Chapter 19 Other Vertebrate Visual Systems; PART V:OTHER SENSES; Chapter 20 Thermosensitivity; Chapter 21 Minority Senses; Chapter 22 Pain; PART VI:CODA; Chapter 23 S
Sommario/riassunto	Since publication of the first edition, huge developments have taken place in sensory biology research and new insights have been provided

in particular by molecular biology. These show the similarities in the molecular architecture and in the physiology of sensory cells across species and across sensory modality and often indicate a common ancestry dating back over half a billion years. . Biology of Sensory Systems has thus been completely revised and takes a molecular, evolutionary and comparative approach, providing an overview of sensory systems in vertebrates, invertebrates and prokaryot

---