1. Record Nr. UNINA990001453700403321

Autore	Dupraw, Ernest J.
Titolo	Cell and molecular biology / Ernest J. DuPraw
Pubbl/distr/stampa	New York, : Academic Press, c1968
Descrizione fisica	xi ; 739 p. : ill. ; 25 cm
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Lingua di pubblicazione	Inglese
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Pubbl/distr/stampa	Chichester ; ; New York, : Wiley, 1993
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Collana	Ciba Foundation symposium ; ; 179
Altri autori (Persone)	ChadwickDerek MarshJoan GoodeJamie
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Nota di contenuto	THE MOLECULAR BASIS OF SMELL AND TASTE TRANSDUCTION; Contents; Participants; Introduction; From genotype to olfactory neuron phenotype: the role of the Olf-I-binding site; Mucous domains: microchemical heterogeneity in the mucociliary complex of the olfactory epithelium; Receptor diversity and spatial patterning in the mammalian olfactory system; Molecular mechanisms of olfactory neuronal gene regulation; A new tool for investigating G protein-coupled receptors; General discussion I; Second messenger signalling

in olfaction; Membrane currents and mechanisms of olfactory transduction
Olfactory receptors: transduction, diversity, human psychophysics and genome analysisGeneral discussion II; MoleculAr genetics of Drosophila olfaction; Perireceptor events in taste; Gustducin and transduci n: a tale of two G proteins; Role of apical ion channels in sour taste t ransduction; Ion pathways in the taste bud and their significance for transduction; The cellular and genetic basis of olfactory responses in Caenorhabditis elegans; Genetic and pathological taste variation: what can we learn from animal models and human disease?; General discussion Ill; Summing-up
Index of contributorsSubject Index

Sommario/riassunto

Recent application of the techniques of molecular biology and patch-clamp physiology has led to rapid advances in understanding the molecular events in chemosensory transduction. In this book, the latest results are presented and discussed by leading scientists. The extensive coverage encompasses many important topics, including mucous domains; microchemical heterogeneity in the mucociliary complex of the olfactory epithelium; membrane currents and mechanisms of olfactory transduction, and genetic and pathological taste variation.