

1. Record Nr.	UNINA9910971554603321
Autore	Pfaff Donald W. <1939->
Titolo	Brain arousal and information theory : neural and genetic mechanisms / / Donald Pfaff
Pubbl/distr/stampa	Cambridge, Mass., : Harvard University Press, 2006
ISBN	9780674042100 0674042107
Edizione	[1st ed.]
Descrizione fisica	1 online resource (216 p.)
Classificazione	CZ 1000
Disciplina	153
Soggetti	Arousal (Physiology) Information theory Neurogenetics Neurophysiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. 155-195) and index.
Nota di contenuto	Frontmatter -- Contents -- Preface and Dedication -- 1. Toward a Universal Theory of Brain Arousal -- 2. Anatomy Is Not Destiny, but a Little Neuroanatomy Helps -- 3. Arousal Is Signaled by Electrical Discharges in a System of Nerve Cells -- 4. Autonomic Nervous System Changes Supporting Arousal; the Unity of the Body -- 5. Genes Whose Neurochemical Products Support Arousal -- 6. Heightened States of Arousal: Sex Compared to Fear -- 7. Major Systems Questions about Brain Arousal Networks -- 8. Summary and Practical Importance: From Biological Mechanisms to Health Applications -- Works Cited -- Acknowledgments -- Index
Sommario/riassunto	In Brain Arousal and Information Theory, Donald Pfaff presents a daring perspective on the long-standing puzzle of what arousal is. Pfaff argues that, beneath our mental functions and emotional dispositions, a primitive neuronal system governs arousal. Employing the simple but powerful framework of information theory, Pfaff revolutionizes our understanding of arousal systems in the brain.