

1. Record Nr.	UNINA9910461300803321
Autore	Koch Christof <1956->
Titolo	Consciousness [[electronic resource] ] : confessions of a romantic reductionist / / Christof Koch
Pubbl/distr/stampa	Cambridge, Mass., : MIT Press, 2012
ISBN	1-280-49917-6 9786613594402 0-262-30178-4
Descrizione fisica	1 online resource (194 p.)
Disciplina	153
Soggetti	Consciousness Mind and body Free will and determinism Life Electronic books.
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 and index.
Sommario/riassunto	"What links conscious experience of pain, joy, color, and smell to bioelectrical activity in the brain? How can anything physical give rise to nonphysical, subjective, conscious states? Christof Koch has devoted much of his career to bridging the seemingly unbridgeable gap between the physics of the brain and phenomenal experience. This engaging book--part scientific overview, part memoir, part futurist speculation--describes Koch's search for an empirical explanation for consciousness. Koch recounts not only the birth of the modern science of consciousness but also the subterranean motivation for his quest--his instinctual (if 'romantic') belief that life is meaningful. Koch describes his own groundbreaking work with Francis Crick in the 1990's and 2000's and the gradual emergence of consciousness (once considered a 'fringy' subject) as a legitimate topic for scientific investigation. Present at this paradigm shift were Koch and a handful of colleagues, including Ned Block, David Chalmers, Stanislas Dehaene, Giulio Tononi, Wolf Singer, and others. Aiding and abetting it were new

techniques to listen in on the activity of individual nerve cells, clinical studies, and brain-imaging technologies that allowed safe and noninvasive study of the human brain in action. Koch gives us stories from the front lines of modern research into the neurobiology of consciousness as well as his own reflections on a variety of topics, including the distinction between attention and awareness, the unconscious, how neurons respond to Homer Simpson, the physics and biology of free will, dogs, Der Ring des Nibelungen, sentient machines, the loss of his belief in a personal God, and sadness. All of them are signposts in the pursuit of his life's work--to uncover the roots of consciousness."--Jacket.

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