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Titolo	Touch, heat, and pain [[electronic resource]] : [proceedings] Ciba Foundation Symposium / / edited by A.V.S. de Reuck and Julie Knight
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Descrizione fisica	1 online resource (433 p.)
Collana	Novartis Foundation Symposia
Altri autori (Persone)	De ReuckAnthony V. S KnightJulie
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Soggetti	Sense organs Senses and sensation Electronic books.
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	TOUCH, HEAT AND PAIN; Preface; Contents; Chairman's introduction; Section I. Discrimination of quantitative differences in stimuli in man; Transfer functions of the skin and muscle senses; Discussion; Tissue temperature and thermal pain; Discussion; Measurement of responses to chemically induced pain; Discussion; General discussion of Section I; Linearity of transmission along the perceptual pathway; Section II. Structure of receptor organs; Unit design and array patterns in receptor organs; Discussion; Fine structure of the receptor organs and its probable functional significance; Discussion General discussion of Section IIChemical or physical nature of transduction; Induction of receptor properties; Specificity of first-order fibres; Section III. Basic mechanisms: biophysics of supporting tissues and receptors; The relationship of skin displacement to receptor activation; Discussion; Nerve membrane properties and thermal stimulation; Discussion; Input and output ends of a transducer process; Discussion; Initiation of impulses by mechanorensory nerve terminals; Discussion; General discussion of Section III; Function of lamellar cells of encapsulated organs

Cell membrane junctions Terminal concentrations of mitochondria;
Section IV. Relation of single receptor activity to parameters of stimuli;
Cutaneous receptors with a high sensitivity to mechanical displacement;
Discussion; Excitation of the dentinal receptor in the tooth of the cat;
Discussion; Classes of receptor units predominantly related to thermal
stimuli; Discussion; General discussion of Section IV; Central
integration over neural space; Sensitivity of temperature detection in
man; Existence of sympathetic thermosensitive fibres
Section V. Relation of activity of populations of receptors to parameters
of stimuli The representation of information about rapid changes in a
population of receptor units signaling mechanical events; Discussion;
The neural transformation of mechanical stimuli delivered to the
monkey's hand; Discussion; General discussion of Section V; Factors
affecting sensitivity of cutaneous mechanoreceptors; Minimal cortical
input; Concluding Discussion; The neurohistology of touch, heat and
pain; Pain and pain receptors; Lines for future research; Chairman's
closing remarks; Author index; Subject index
