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Titolo	Neurophysiology of neuroendocrine neurons // editors, William E. Armstrong, Jeffrey G. Tasker
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ISBN	1-118-60677-9 1-118-60680-9 1-118-60679-5
Descrizione fisica	1 online resource (384 p.)
Collana	INF Masterclass in Neuroendocrinology Series
Disciplina	612.8/1046
Soggetti	Neurons - Physiology
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 and index.
Nota di contenuto	Electrophysiology of magnocellular neurons in vivo -- Oxytocin neurons during suckling : lessons from organotypic cultures -- Peptidergic control of oxytocin and vasopressin neurons and its role in reproductive and hypertension-associated plasticity -- The osmotic control of vasopressin releasing neurons -- Function and localization of epithelial sodium channels in vasopressin and oxytocin neurons -- Visible markers of vasopressin and oxytocin activity and their use in identifying the neuronal activity of specific neuroendocrine cell types -- Neurophysiology of neurohypophysial terminals -- Neuronal-glia remodeling of the magnocellular system -- Dendritic release of the neuropeptides vasopressin and oxytocin -- Endocannabinoid modulation of synaptic inputs to magnocellular neurons -- Role of central vasopressin in the generation of multimodal homeostatic responses -- Elucidating the structure and function of gonadotropin-releasing hormone (GnRH) neuron dendrites -- Roles of estrogen and kisspeptin in controlling gonadotropin releasing hormone (GnRH) neuronal excitability -- Multiple-unit activity recording of the gonadotropin-releasing hormone pulse generator.
Sommario/riassunto	Neurophysiology of Neuroendocrine Neurons provides researchers and students with not only an understanding of neuroendocrine cell

electrophysiology, but also an appreciation of how this model system affords access to virtually all parts of the neuron for detailed study - something unique compared to most types of neuron in the brain. Chapters range from those describing the rich history and current state of in vivo recordings, highlighting the precise relationship between the patterns of action potential discharge in these neurons and hormone release, to in vitro approaches where neuroendocrin
