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Nota di contenuto	NEURONAL AND COGNITIVE EFFECTS OF OESTROGENS; Contents; Participants; Chairman's introduction; Mechanism of oestrogen signalling with particular reference to the role of ER _B in the central nervous system; Discussion; Oestrogen receptor function at classical and alternative response elements; Discussion; General discussion I; Nuclear receptor versus plasma membrane oestrogen receptor; Discussion; Novel sites and mechanisms of oestrogen action in the brain; Discussion; Oestrogen modulation of noradrenaline neurotransmission; Discussion Oestrogen and the cholinergic hypothesis: implications for oestrogen

replacement therapy in postmenopausal womenDiscussion; Ovarian steroid action in the serotonin neural system of macaques; Discussion; Oestrogen effects on dopaminergic function in striatum; Discussion; General discussion II; Oestrogen effects in olivo-cerebellar and hippocampal circuits; Discussion; Effects of oestradiol on hippocampal circuitry; Discussion; Oestrogen and cognitive function throughout the female lifespan; Discussion; Neuroprotective effects of phenolic A ring oestrogens; Discussion

The female sex hormone oestrogen as neuroprotectant: activities at various levelsDiscussion; Neurohormonal signalling pathways and the regulation of Alzheimer b-amyloid metabolism; Discussion; Oestrogens and dementia; Discussion; Index of contributors; Subject index

Sommario/riassunto

Although normally thought of as a sex hormone, recent research has highlighted the numerous and significant effects that oestrogen has on the CNS, extending far beyond its important reproductive role. It has been shown that oestrogen acts as a neural growth factor with important influences on the survival, plasticity, regeneration and ageing of the mammalian brain. This exciting book brings together leading clinicians and researchers to discuss oestrogen's basic mechanisms of action, the extrahypothalamic brain regions it affects, and its influence on cognitive functions in animals and h