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# RAPID SIGNALING OF ESTROGEN TO NEURONAL DENDRITE SPINE FORMATION



Rapid Signaling Of Estrogen To Neuronal Dendrite Spine Formation

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Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Estrogens are important regulators of neuronal cell morphology and this is thought to be critical for gender-specific differences in brain function and dysfunction. Dendritic spine formation is dependent on actin remodeling by WAVE1 protein, which controls actin polymerization through the Arp-2/3 complex. We show that 17-estradiol (E2) administration leads to phosphorylation and redistribution of WAVE1 at sites of dendritic spine formation. WAVE1 phosphorylation is found to be triggered by a G...

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