



Molecular Effect of Resveratrol on Neurodegeneration Induced In Rats

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The cross-talk between neurons and non-neuronal cells seems to be a critical step in the progression of neurodegeneration and molecules that have a beneficial role may turn into harmful players. Aluminum is a well documented neurotoxin, resulting from the fact that it replaces the usual metal ions in proteins and enzymes, causing a change in the replication rate or decreasing the metabolic rate which may triggers neuronal damage. The plant polyphenol resveratrol has been touted to have multiple health benefits including neuroprotection. A commonly cited mechanism of resveratrol action is via the activation of the longevity factor Sir2/Sirt1, whose deacetylase activity on several transcription factors has stress resistance and pro-survival effects. In this study we propose APE1/Ref-1 (APE1), a multifunctional protein possessing both DNA repair and transcriptional regulatory activities, as new resveratrol-mediated neuroprotection target. We believe that understanding the molecular balance between total oxidant versus antioxidant capacities as well as pro-apoptotic versus pro-survival proteins during neuroinflammation is essential for therapeutics development. | Format: Paperback | Language/Sprache: english | 140 pp.



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