Oxidative Stress and the Molecular Biology of Antioxidant Defenses

Monograph 34
Edited by John G. Scandalios, North Carolina State University

The increase in levels of active oxygen species or free radicals known as oxidative stress induces lesions that impair or kill cells and initiate disease and degenerative processes such as aging, carcinogenesis, and immunodeficiencies. Protective mechanisms have been uncovered in both eukaryotes and prokaryotes and are being vigorously studied at a molecular level, assisting the search for ways of reducing or avoiding oxidative stress. Written and edited by leaders in this growing field, this volume is an essential work of reference for specialists and investigators with wider interests in cell biology, aging and cancer biology.

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Cover  Dissociation of cerebellar attention (yellow and blue) and motor (green and red) activation (yellow and green = overlap in activation of 3 or more subjects; blue and red = overlap of any 2 subjects). Three-dimensional volume rendering of the cerebellum and brain stem demonstrates that during an attention task, the most common site of activation was in the left superior posterior cerebellum, while during a motor task, the most common site was in the right anterior cerebellum. (For details, see Courchesne and Allen, p. 1; image rendered using VoxelView 2.5.)
The following articles appeared last month in the first special issue devoted to learning and the cerebellum, *Learning & Memory*, vol. 3, number 6, March/April 1997

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