



## **Cytochrome Oxidase in Neuronal Metabolism and Alzheimer's Disease (Aging)**

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This book is based on an international symposium titled "Cytochrome oxidase in energy metabolism and Alzheimer's disease," held as a satellite to the 27th meeting of the Society for Neuroscience, New Orleans, 1997. The symposium was dedicated in honor of Dr. Margaret T. T. Wong-Riley because, in our opinion, the cytochrome oxidase histochemical method introduced by Dr. Wong-Riley in 1979 was the most significant breakthrough to map energy metabolism in the entire brain since the 2-deoxyglucose method introduced by Dr. Louis Sokoloff and colleagues in 1977. Both of these metabolic mapping techniques have made monumental contributions to brain research by allowing an integral view of brain activity. They have also developed into various specialized techniques, including applications to the human brain. One of these new applications, which is described in detail in this book, is the quantitative cytochrome oxidase cytochemical method used to study Alzheimer's disease. The objective of this book is to describe the role of cytochrome oxidase in neuronal metabolism and Alzheimer's disease. Whether genetic or environmental, the pathogenesis of Alzheimer's disease involves a cascade of multiple intracellular events, eventually resulting in failure of oxidative energy metabolism. Could impairment of cytochrome oxidase in energy metabolism initiate the degenerative process? Cytochrome oxidase function and dysfunction are discussed in relationship to neuronal energy metabolism, neurodegeneration, and Alzheimer's disease. The book is made up of 10 chapters, divided into three major parts.

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