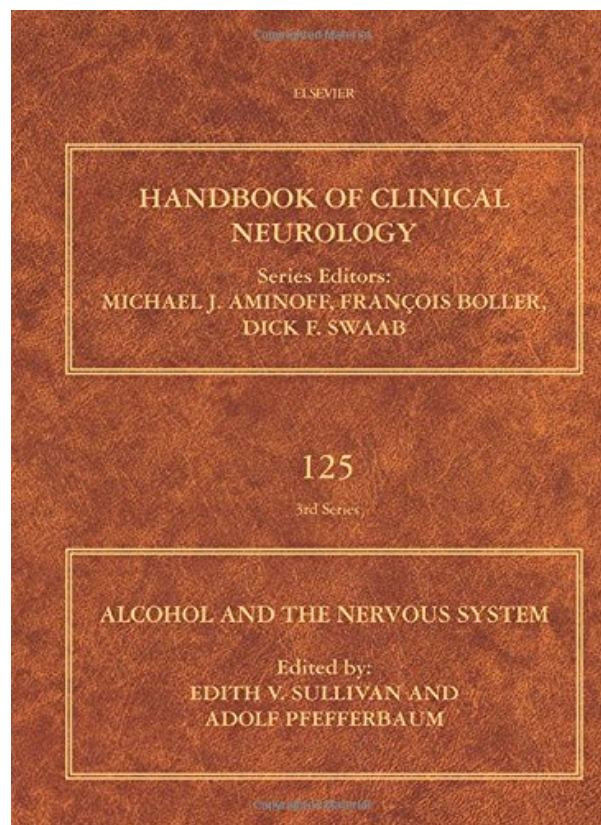
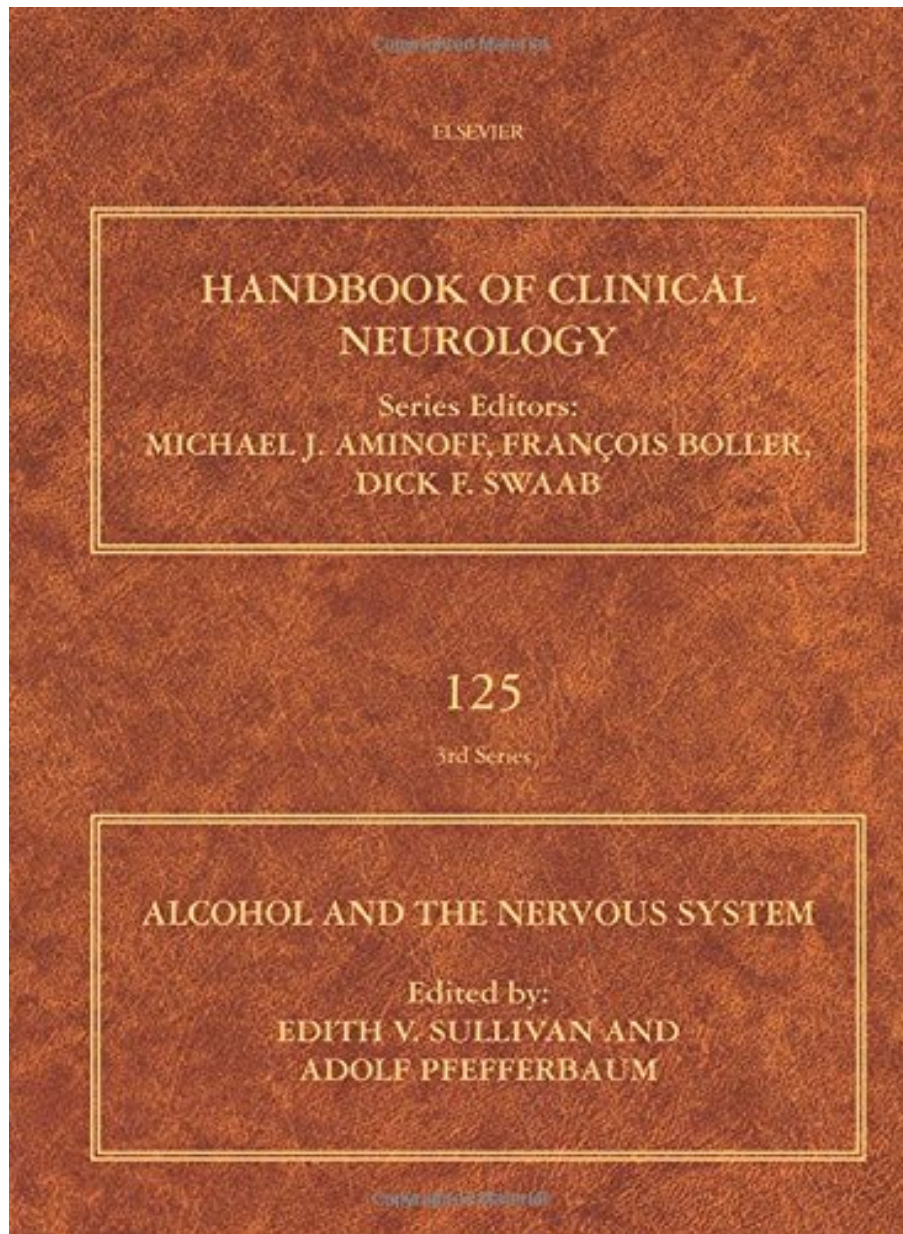


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From the Back Cover

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As a neuropsychologist with expertise in neuroimaging, Dr. Sullivan has championed putting the "neuro" into neuropsychology and has done so in her research and through her editorship of *Neuropsychology Review*. Her research combines quantitative brain imaging and assessment of component processes of neuropsychological functions to the study of neuropsychiatric diseases and normal function over the life span. Dr. Sullivan's interest in brain related conditions grew out of her experience as a researcher at MIT in the late 1970s to mid-1980s. There, she had the opportunity to work with the famous amnesic patient, H.M. Inspired by the component processes approach used in lesion research, she has applied these concepts to

dissect impairments in cognitive and motor function in patients without focal lesions. Her early work focused on Parkinson's disease, Alzheimer's disease, and schizophrenia. Over the last two decades, the mainstay of her research has been on both normal aging and alcoholism-related brain injury in human nonamnesic and amnesic alcoholism and animal models of excessive alcohol exposure. Her research has resulted in identification of brain circuitry disrupted in alcoholism and elucidation of spared circuits that have the potential to enable functional recovery with sobriety.

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For nearly 40 years, Dr. Pfefferbaum has combined medical clinical skills with scientific rigor and creativity to develop and apply electrophysiology and neuroimaging approaches for identifying in vivo brain markers of the effects of long-term, alcohol dependence. His longitudinal neuroimaging studies using quantitative magnetic resonance imaging (MRI) have revealed alcoholism's scope and limits of recovery of brain structure and function. With diffusion tensor imaging to quantify the microstructure of white matter, Dr. Pfefferbaum has shown fiber degradation in alcoholic men that related to memory and attention; in alcoholic women, fiber compromise occurs in normal-appearing white matter. His seminal contribution using functional MRI revealed that alcoholics recruit broader areas of brain than controls to perform at equivalent levels on working memory tasks. In addition to naturalistic studies of human alcoholism, Dr. Pfefferbaum has an active research program using rodent models of alcoholism, employing macrostructural, microstructural, and functional imaging enabling translational research.

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- The first focused reference specifically on alcohol and the brain
 - Details our current understanding of how alcohol impacts the central nervous system
 - Covers clinical and social impact of alcohol abuse disorders and the biomedical consequences of alcohol abuse
 - Includes section on neuroimaging of neurochemical markers and brain function
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