



# Neuron-Glia Interrelations During Phylogeny: II. Plasticity and Regeneration: 002 (Contemporary Neuroscience)

*Antonia Vernadakis, Betty I. Roots*

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It has been established that neuroglia are involved in early neuronal growth, differentiation, and migration; these issues are well discussed in the companion volume entitled Neuron-Glia Interrelations During Phylogeny: I. Phylogeny and Ontogeny of Glial Cells. The present volume, Neuron-Glia Interrelations During Phylogeny: II. Plasticity and Regeneration, focuses on two aspects: (1) neuron-glia interrelations as they relate to the physiological and metabolic homeostasis of neurons; and (2) the role of neuroglia and neuronal plasticity in regeneration and aging. Neuron-Glia Interrelations During Phylogeny: II. Plasticity and Regeneration begins with the unique presentation, "Neuron-Glia Interactions in the Human Fetal Brain," by Sogos et al. The interesting issue discussed in this chapter is the immunocompetence of the CNS, a field that is now rising. The chapter by Oland et al., "Glial Cells Play a Key Role in the Construction of Insect Olfactory Glomeruli," discusses a unique role of glial cells as intermediates in afferent axon induction of substructure with the CNS. The chapter by Vanhems, "Insect Glial Cells and Their Relationships with Neurons," compliments the information presented in the companion volume by Fredieu and Mahowald and, in this volume, the chapter by Tobert and Oland. The chapter by Tsacopoulos and Poitry, "Metabolite Exchanges and Signal Trafficking Between Glial Cells and Neurons in the Insect Retina," provides evidence of the nutritive functions of glial cells and the important role of alanine supplied by glial cells to photoreceptors, a clear neuron-glia interaction.

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