

Neuron Glia Biology

Aims And Scope

Neuron Glia Biology publishes high-quality original research articles reporting significant findings in the field of neuron–glia interactions, but reviews and concise summaries of relevant research are welcome. The scope of interest encompasses studies on cell–cell communication between cells in the brain and peripheral nervous system, including glial–glial, neuron–neuron, neuro–glia vascular or immune system interactions. Studies of cellular or molecular mechanisms of cell–cell communication during development, information processing, and disease, via diffusible messenger molecules, growth factors and cytokines, membrane receptors, channels and transporters, cell adhesion and extracellular matrix molecules are of interest. Methodological approaches including ultrastructure, live cell imaging, electrophysiology, biochemistry, molecular biology, transplantation, to investigate such biological processes as synaptogenesis, synaptic plasticity, nervous system development, morphogenesis, process outgrowth and regeneration, information processing, myelination, and activity-dependent communication between neurons and non-neuronal cells are appropriate. Research studies with medical implications are welcome, provided they are based on new findings in basic science. Issues are printed on a bimonthly interval, and individual papers are published continuously on-line ahead of print. There are no figure or page charges.

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ABSTRACT: A summary of less than 200 words communicating the primary findings and significance of the research.

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INTRODUCTION: State the relevant background to the study to provide the necessary information and context to enable non-specialists to appreciate the objectives and significance of the paper.

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DISCUSSION: Interpretation of the conclusions with respect to the hypothesis and the significance to the field should be discussed. Careful consideration of the conclusions for accuracy and alternative interpretation, and possible conflicts or resolution of conflicts in the field is encouraged. Limited speculation and directions for future research can be included.

ACKNOWLEDGEMENTS: Use a separate page to recognize the contributions of individuals and supporting institutions.

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Book chapter

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Web sites

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Reviews

Proposals for reviews or concise meeting reports should be forwarded to the Editor.

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