

STRUCTURAL BIOLOGY OF MEMBRANE PROTEINS - ADDENDUM

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P.T.

National Institute of General Medical Sciences
National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institute of Diabetes and Digestive and Kidney Diseases
National Institute of Environmental Health Sciences
National Institute of Neurological Disorders and Stroke
National Institute of Mental Health

This notice is an addendum to program announcement [PA-99-004](#), which was released in the NIH Guide for Grants and Contracts on October 16, 1998. This PA supports work leading to atomic level resolution of membrane proteins.

PURPOSE

The purpose of this addendum is to add the National Institute of Mental Health (NIMH) as a participant in this program announcement, to define the research areas covered by this program announcement that would be appropriate for funding consideration by the NIMH (see RESEARCH OBJECTIVES), and to identify the NIMH contacts (see INQUIRIES).

RESEARCH OBJECTIVES

Membrane protein systems of interest to the National Institute of Mental Health (NIMH) include proteins involved in synaptic transmission, as well as in regulatory, metabolic, homeostatic, and signaling functions in normal brains, in 'altered' states (such as during stress and during learning and memory), in disease states, and in the developing nervous system. These include proteins involved in vesicle trafficking, in receptor trafficking, in the synthesis, translocation and/or compartmentalization of cytoskeletal elements in neurons and glia, in various facets of nervous system development (such as cytodifferentiation, cell migration, cell adhesion, cell death, dendritic and axonal development, axonal guidance and pathfinding, synapse formation, axonal retraction, myelination, etc.) and in neurodegenerative disorders (such as lysosomal and

amygloid dysfunctions), as well as receptors (for neurotransmitters such as glutamate, GABA, acetylcholine, norepinephrine, serotonin, dopamine, glycine, peptide neurotransmitters, as well as for hormones, trophic factors, and other neuromodulators), ion channels (sodium, calcium, potassium, voltage gated, ligand gated, etc.), transporters, ion pumps, and second messenger systems (G- proteins, cyclic nucleotides, kinases, phosphatases, phospholipases, etc.).

INQUIRIES

Program officials and grants management contacts at participating awarding institutes are listed in the original program announcement. The following NIMH contacts should be added to that list.

Direct inquiries regarding programmatic issues to:

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