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Pesticides, neurodegeneration, neuroinflammation, neuroprotection

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Pesticides, Neurodevelopment, Occupational exposures, Environmental exposures, Neurobehavioral

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pesticides; mercury; GABA neurotransmission; glutamate neurotransmission; redox homeostasis; neural cell culture

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Astrocytes, lead, heavy metals, in vitro neurotoxicology,

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Electrophysiology/ Neuroimaging (in vitro and in vivo), Risk Assessment, Neurobehavioral Toxicology, Epidemiology, Solvent Neurotoxicity, Metal Neurotoxicity, translational Neurotoxicology"
Animal Models, Neurodegeneration, Neurotransmission, Persistent Organic Pollutants, Pesticides, Synapse

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Manganese, Movement Disorders, Parkinsonism, Dystonia, MRI, PET

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developmental neurotoxicity, persistent organic publications, P450s, aryl hydrocarbon receptor, gene-environment interactions

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mercury, methylmercury, selenium, neurotoxic soft electrophiles, oxidative stress, soft-nucleophile functional groups

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per- and polyfluoroalkyl substances (PFASs), persistent organic pollutants (POPs), developmental neurotoxicity, neuroimmunotoxicity, Alzheimer’s disease, autism spectrum

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organophosphate toxicity, organophosphate-induced delayed neuropathy, neurotoxic esterase, general toxicology, general pharmacology

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metal toxicity, neurochemistry, trace elements, behavior, antioxidants, neurodevelopment

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operant behavior, attention, impulsivity, PCBs, flame retardants, pesticides

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C. elegans, oxidative stress, mitochondrial inhibition, organometallic pesticides, mitochondrial metabolism

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Neurodegeneration, neurological disorders, developmental neurotoxicity, in vivo and in vitro models, proteomics

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in vitro and alternative methods, developmental neurotoxicology, neurite outgrowth, synaptogenesis, high content imaging, transcriptomics

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in vitro and alternative methods, developmental neurotoxicology, neurite outgrowth, synaptogenesis, high content imaging, transcriptomics

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Developmental Neurotoxicity (DNT), 3D in vitro models, metabolomics, 3Rs, human-on-chip approaches, electrical activity recording.

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pesticides, chemical warfare agents, translational research, antidotes, cholinergic system

**Prasada Rao S. Kodavanti**, Div. of Toxicity Assessment (TAD), U.S. Environmental Protection Agency (EPA), Research Triangle Park, North Carolina, USA

Compounds: Polychlorinated biphenvils, polybrominated diphenyl ethers, perfluorinated chemicals

Areas of neurotoxicology: cell signaling, oxidative stress, neuronal cultures

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dioxin; N-methyl-D-aspartate; TCDD; glutamate; excitotoxicity; aryl hydrocarbon receptor

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peripheral nervous system, risk assessment, pesticides, organophosphates, carbamates, occupational

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Parkinson's disease, Neuroinflammation, Oxidative stress, microglial activation, reactive astrogliosis, Molecular toxicology

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Arsenic, herbicides, HPLC, dopaminergic system, microdialysis, behavior.

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Pesticide toxicity, Heavy metals toxicity, Drugs of abuse toxicity, Oxidative stress, Neurochemistry, Parkinson's disease (neurodegenerative disease)
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Yukun Yuan, Dept. of Pharmacology and Toxicology, Michigan State University, East Lansing, Michigan, USA
Electrophysiology, Ion Channel, Synaptic function, channelopathies, epilepsy, methylmercury.
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NeuroToxicology specializes in publishing the best peer-reviewed original research papers dealing with the effects of toxic substances on the nervous system of humans and experimental animals of all ages. The Journal emphasizes papers dealing with the neurotoxic effects of environmentally significant chemical hazards, manufactured drugs and naturally occurring compounds. Papers dealing with the effects of neurotoxicants on other systems (e.g. reproductive, endocrine, immune) or processes (e.g. metabolic) are also welcome. NeuroToxicology recognizes the diverse backgrounds and interests of scientists who work in these areas and encourages the participation of all. Areas of special emphasis and interest -- both basic and applied -- have been identified; they include: neuropathology, neurophysiology, neurochemistry, neuropharmacology, neurology, behavioral toxicology, development neurotoxicology, psychiatry, toxicology, epidemiology, psychology, neuroteratology, behavioral teratology, risk assessment and regulatory issues. Papers reporting interdisciplinary studies are especially welcome. Papers reporting any effects of known neurotoxicants are welcome. Neurotoxicology will not accept papers reporting on neuroactive properties of formulations or natural products for which full chemical identification and purification information of the active molecule(s) is lacking.

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