Special Issue

Neurocognitive Disorders and Environmental Pollution

Message from the Guest Editors

It is noteworthy that environmental pollution may affect several human organs and systems. Recent studies have specifically linked environmental pollution—and specifically air pollution—to several conditions affecting the central nervous system (CNS), including stroke, Alzheimer's disease, Parkinson's disease, cognitive decline, and neurodevelopmental disorders. A few years ago, the presence of million iron particles was demonstrated in animal and human brains living in heavy polluted cities. It has also been reported that polychlorinated biphenyls (PCBs), including dioxins and furans, are linked to dementia and cognitive decline, while early prenatal exposures to endocrine disruptors and other amniotic contaminants have been suggested as a possible cause of neurocodevelomental disorders resulting in the worldwide spread of autism. It has been demonstrated that PM 2.5 and mostly PM < 1 and 0.1 can easily reach the CNS, where they can activate innate immune responses or involve the CNS in systemic inflammatory processes arising from the pulmonary or cardiovascular systems.

Guest Editors

Prof. Dr. Giancarlo Logroscino

Department of Clinical Research in Neurology, University of Bari "Aldo Moro", Bari, Italy

Dr. Alessandro Miani

Department of Environmental Science and Policy (ESP), University of Milano, Via Celoria, 2-20133 Milan, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijerph@mdpi.com

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation, Richard N. Dixon Research Center, Morgan State University, Baltimore, MD 21251, USA

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