



## Neurocognitive Disorders and Environmental Pollution

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Deadline for manuscript  
submissions:

**closed (15 December 2022)**

### 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 neurodevelopmental 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.





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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.

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