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ONLINE ISSN: 1880-1404 PRINT ISSN: 0916-717X

Biomedical Research on Trace Elements

Vol. 16 (2005), No. 1 12-18

Cited

JST Link Center

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Trace elements and neuropsychiatric disorders

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(Accepted: January 12, 2005)

Abstract:

The trace elements play important roles in the human brain. The knowledge on the trace elements and neuropsychiatric disorders were comprehensively reviewed. These include iron, zinc, copper, iodine, lithium, aluminum, manganese, lead and mercury. Some metals have toxic actions on nerve cells and neurobehavioral functioning. The toxic actions could be expressed either as developmental effects or as an increased risk of neurodegenerative diseases in old age. Redox metals, which were iron, copper, and zinc in the brain, play many important roles in maintenance of cellular function.

Key words: trace elements, neuropsychiatric disorders, iron, zinc, copper, Wilson's disease, manganese

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To cite this article:

Michiko Nakamura, "Trace elements and neuropsychiatric disorders", Biomedical Research on Trace Elements, Vol. **16**, pp.12-18 (2005).

JOI JST.JSTAGE/brte/16.12

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