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Are the changes in the peripheral brain-derived neurotrophic factor levels due to platelet activation?

Montserrat Serra-Millàs

Abstract

Brain-derived neurotrophic factor (BDNF) plays an important role in central nervous system development, neurogenesis and neuronal plasticity. BDNF is also expressed in several non-neuronal tissues, and it could play an important role in other processes, such

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F Karege, G Bondolfi, N Gervasoni, M Schwald... - Biological ..., 2005 - Elsevier

... an elevation in plasma PF4 levels, indicating elevated platelet reactivity without a change in total ... content (Mann et al 1992), serum BDNF levels could be a peripheral indicator of ... This marker might, however, be shared by other psychiatric disorders, given that changes in serum ...

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The impact of age, weight and gender on BDNF levels in human platelets and plasma

M Lommatzsch, D Ziegler, K Schuhbaeck... - Neurobiology of ..., 2005 - Elsevier

... In addition, platelet BDNF levels changed during the menstrual cycle. ... Peripheral blood mononuclear cells (PBMC) were isolated from EDTA-containing blood using a Ficoll density gradient. ... 3. Changes of BDNF levels with increasing weight. ...

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Decreased serum brain-derived neurotrophic factor levels in major depressed patients

F Karege, G Perret, G Bondolfi, M Schwald... - Psychiatry ..., 2002 - Elsevier

... is an important member of the neurotrophin family, abundant in the brain and the periphery. ... blood platelets have been extensively used in studies of mood disorders and changes in some ... Our findings suggest that platelet BDNF may also be a peripheral marker of depression.

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Changes in BDNF serum levels in patients with major depression disorder (MDD) after 6 months treatment with sertraline, escitalopram, or venlafaxine

F Matrisciano, S Bonaccorso, A Ricciardi... - Journal of psychiatric ..., 2009 - Elsevier

... data also suggest that with sertraline and venlafaxine, the effects on peripheral BDNF are sustained ... on the differences among sertraline, venlafaxine and escitalopram with respect to BDNF serum changes. even at the highest concentration, was not able to change total BDNF ...

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F Blandini, L Rinaldi, C Tassorelli, G Sances... - ..., 2006 - Wiley Online Library

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