How our brains are handling the COVID-19 pandemic

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Abstract:
Time and exploration will be of the core when concluding the tall-duration sequels of the Covid-19 pandemic for International mental and emotional well-being. Previous reports from viral outbreaks and emerging proof from the novel pandemic mark towards a prospect "tsunami" of stress-related disorders in the consequences of such dangerous news. Plus, to neurological and psychiatric symptoms, together with that casus and neurocognitive immense symptoms spotted in Covid-19 patients how to survive pandemic. Neonatal handling is an experimental model of early life experience associated with resilience in later life challenges, altering the ability of animals to respond to stress. The endocannabinoid system of the brain modulates the neuroendocrine and behavioral effects of stress, while this system is also capable of being modulated by stress exposure itself. The present study has addressed the question of whether neonatal handling in rats could affect cannabinoid receptors, in an age- and sex-dependent manner, using in situ hybridization and receptor binding techniques. Different effects of neonatal handling were observed in adolescent and adult brain on CB1 receptor mRNA and [3H] CP55,940 binding levels, which in some cases were sexually dimorphic. Neonatal handling interfered in the developmental trajectories of CB1 receptor mRNA levels in striatum and amygdaloid nuclei, as well as of [3H] CP55,940 binding levels in almost all regions studied. Adult handled rats showed reduced [3H] CP55,940 binding levels in the prefrontal cortex, striatum, nucleus accumbens and basolateral amygdala, while binding levels in prefrontal cortex of adolescent handled rats were increased.

Biography:

Laila M. Montaser, MD is Professor of Clinical Pathology. She is Chair, of Stem Cell, Regenerative Medicine,

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Recent Publications:

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2. HLA antigens in schistosomal hepatic fibrosis patients with haematemesis H Abaza, L Asser, ME Sawy, S Wasfy, L Montaser, M Hagras, A Shaltout Tissue antigen 26 (5), 307-309.
3. Analysis of CD177 neutrophil expression in thalassemia patients LM Montaser, FH EL RASHIDI, ES Essa, SM Azab Apmis 119 (10), 674-680.
4. Evaluation of CD 95 in patients with Chronic Hepatitis C Virus RMAE LM Montaser, IA Waked, ES Essa Menoufia Med. J 27 (4), 780-784

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