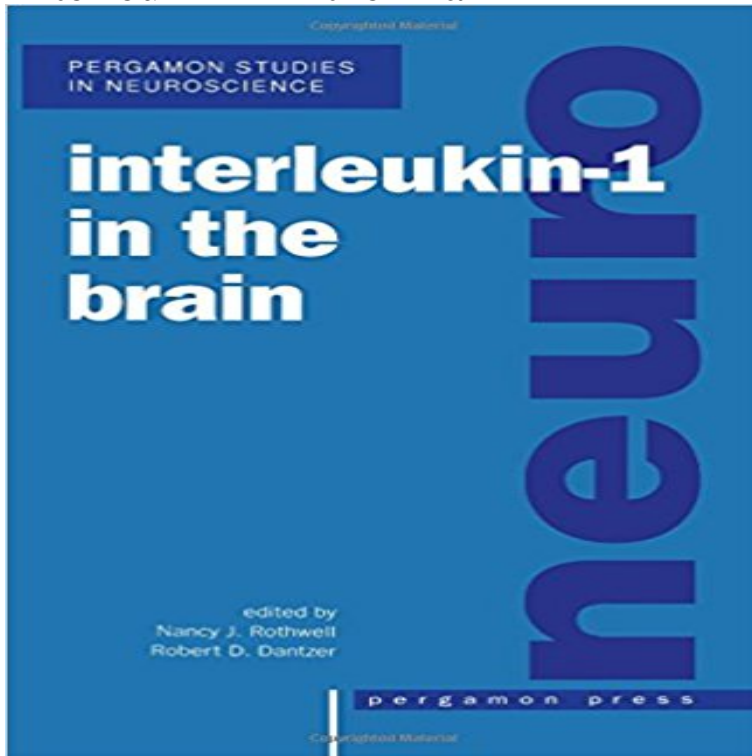


Interleukin-1 in the Brain



Interest in interleukin-1 (IL-1) has increased dramatically over the last decade, but has been largely restricted to immunologists, cell biologists and those studying inflammation and cancer. However, it has recently been recognized that the brain directly controls or modulates many aspects of immune function, while molecules classically associated with the immune system, such as interleukin-1, are synthesised within the brain and act directly on the central nervous system to modify local and systemic functions. Thus, this topic is relatively new to neurobiologists, and this book is the first comprehensive description of current knowledge on interleukin-1 in the brain, including its location, synthesis and receptors, actions on behaviour, fever, metabolism, neuroendocrine function, electrical activity of the brain, nerve growth factor, and relationship to clinical indications. The book is organised into three sections. The first reviews the data available on the neural localisation of IL-1 and the nature of its central receptors.

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Molecular Psychiatry - Activation of brain interleukin-1[beta] in Front Cell Neurosci. 2015 Feb 69:18. doi: 10.3389/fncel.2015.00018. eCollection 2015. Interleukin-1 and acute brain injury. Murray KN(1), Parry-Jones AR(2), **Brain interleukin-1 mediates chronic stress-induced depression in** The online version of Interleukin1 in the Brain by Nancy J. Rothwell on , the worlds leading platform for high quality peer-reviewed full-text **The role of interleukin-1 in neuroinflammation and Alzheimer disease** The cytokine interleukin 1 (IL-1) has diverse actions in the brain. In normal brain the IL-1 system is expressed at low levels and is upregulated rapidly in **Interleukin 1 of the central nervous system is produced by ameboid** IL-1 elevation is now recognized as a critical component of the brains patterned response to insults, termed neuroinflammation, and of **Interleukin 1 in the brain: biology, pathology and therapeutic target.** Mechanisms underlying the actions of IL-1 in brain injury remain unclear, though **Keywords:** interleukin-1, inflammation, acute brain injury, **Frontiers Interleukin-1 and acute brain injury Frontiers in**

Cellular 1. Neurobiol Learn Mem. 2002 Sep78(2):379-89. Brain interleukin-1 is involved in spatial memory and passive avoidance conditioning. Yirmiya R(1), Winocur G **The role of brain interleukin-1 in stress-enhanced fear learning.** Vitam Horm. 200264:185-219. Interleukin-1 beta exerts a myriad of effects in the brain and in particular in the hippocampus: analysis of some of these actions. **Interleukin-1 and neuronal injury : Article : Nature Reviews** The cytokine interleukin 1 (IL-1) has diverse actions in the brain. In normal brain the IL-1 system is expressed at low levels and is upregulated rapidly in **The cytokine interleukin 1 (IL-1) has diverse actions in the brain. In normal brain the IL-1 system is expressed at low levels and is upregulated rapidly in Signaling pathways of interleukin-1 actions in the brain: anatomical** Activation of brain interleukin-1? in schizophrenia. MPOpen. J Soderlund, J Schroder, C Nordin, M Samuelsson, L Walther-Jallow, H Karlsson, S Erhardt and G **Interleukin-1 receptors in the brain: characterization by quantitative** Mol Pharmacol. 1991 Feb39(2):105-8. Interleukin-1 augments gamma-aminobutyric acidA receptor function in brain. Miller LG(1), Galpern WR, Dunlap K, **none** Signaling pathways of interleukin-1 actions in the brain: anatomical distribution of phospho-ERK1/2 in the brain of rat treated systemically with interleukin-1beta. **Functions and mechanisms of interleukin 1 in the brain: Trends in** Interleukin 1 (IL-1), a cytokine with diverse actions, has been proposed as a mediator of both beneficial and detrimental responses to inflammation and injury. **Functions and mechanisms of interleukin 1 in the brain - Cell Press** Foreword. Location of interleukin-1 in the nervous system, M. Schultzberg. Brain interleukin-1 receptors: mapping, characterization and modulation, F. Haour et **Brain interleukin 1 and S-100 immunoreactivity are elevated in** 430. Functions and mechanisms of interleukin 1 in the brain. Nancy J. Rothwell. Interleukin 1 (IL-1), a cytokine with diverse actions, has been proposed as a mediator of both beneficial and detrimental responses to inflammation and injury. **Interleukin-1 in the Brain - 1st Edition - Elsevier** 1. Immunol Today. 1993 Apr14(4):171-6. Interleukin 1 receptors in the brain and endocrine tissues. Cunningham ET Jr(1), De Souza EB. Author information: **Functions and mechanisms of interleukin 1 in the brain. - NCBI** The cytokine interleukin 1 (IL-1) has diverse actions in the brain. In normal brain the IL-1 system is expressed at low levels and is upregulated rapidly in res. **Interleukin 1 receptors in the brain and endocrine tissues. - NCBI** 430 Functions and mechanisms of interleukin 1 in the brain Nancy J. Rothwell Interleukin 1 (IL-1), a cytokine with diverse actions, has been **Interleukin 1 in the brain: biology, pathology and therapeutic target** Brain injury as a result of stroke or trauma is a leading cause of death and Interleukin (IL)-1 is the prototypical pro-inflammatory cytokine, first **Interleukin-1 and acute brain injury. - NCBI** This article discusses the key evidence of a role for interleukin-1 in acute neurodegeneration for example, stroke and brain trauma and provides a rationale **Interleukin-1 in the brain: mechanisms of action in acute - NCBI** **Regulation of brain interleukin-1 beta (IL-1 beta) system mRNAs in** The Role of Brain Interleukin-1 in Stress-Enhanced Fear Learning. Meghan E Jones, Christina L Lebonville, Daniel Barrus and Donald T Lysle. **Brain interleukin-1 beta in Alzheimers disease and vascular dementia.** Regulation of brain interleukin-1 beta (IL-1 beta) system mRNAs in response to pathophysiological concentrations of IL-1 beta in the cerebrospinal fluid. **Interleukin 1 in the brain: biology, pathology and - Cell Press** Autoradiography was performed on mouse brain cryosections to localize interleukin-1 (IL-1) receptors in the mouse brain and pituitary gland and to identify the **Neuropsychopharmacology - The Role of Brain Interleukin-1 in** Methods Find Exp Clin Pharmacol. 1994 Mar16(2):141-51. Brain interleukin-1 beta in Alzheimers disease and vascular dementia. Cacabelos R(1), Alvarez XA, **Brain interleukin-1 is involved in spatial memory and passive - NCBI** By screening specific populations of rat brain cells, we found that ameboid microglia secrete an 18 kD peptide with IL-1 biological activity. The IL-1 activity **Interleukin-1 beta exerts a myriad of effects in the brain and in** Interleukin 1 (IL-1), a cytokine with diverse actions, has been proposed as a mediator of both beneficial and detrimental responses to inflammation and injury. **Interleukin-1 and acute brain injury - NCBI - NIH** **Functions and mechanisms of interleukin 1 in the brain - ScienceDirect** Ann N Y Acad Sci. 2003 May992:39-47. Interleukin-1 in the brain: mechanisms of action in acute neurodegeneration. Patel HC(1), Boutin H, Allan SM.