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**Name of Journal:** *World Journal of Stem Cells*

**Manuscript NO:** 52207

**Manuscript Type:** ORIGINAL ARTICLE

*Basic Study*

**C-C chemokine receptor type 2-overexpressing exosomes alleviated experimental post-stroke cognitive impairment by enhancing microglia/macrophage M2 polarization**

Yang HC *et al.* Exosomes on PSCI

Huai-Chun Yang, Min Zhang, Rui Wu, Hai-Qing Zheng, Li-Ying Zhang, Jing Luo, Li-Li Li,  
Xi-Quan Hu

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Author: Jiawen Xu, Hongquan Dong, Qingqing Qia...

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<https://ccforum.biomedcentral.com/articles/10.1186/s13054-019-2493-7> ▼

Jun 03, 2019 · With the introduction of the concept of microglia/macrophage polarization, the dual role of microglia/macrophages can be explained: The "classically activated" M1 microglia/macrophage is typically assumed to promote brain damage, whereas the "alternatively activated" M2 phenotype possesses neuroprotective properties [15, 16].

Cited by: 1

Author: Jingjin Liu, Kay Nolte, Gary Brook, Lisa L...

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Author: Jingjin Liu

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6438858>

Mar 22, 2019 · In the periphery, bryostatin-1 promotes the differentiation of lymphocytes into anti-inflammatory Th2 cells by acting on macrophages. Ethyl pyruvate prevents the activation of macrophages/microglia within the CNS. Lenalidomide, spermidine, forskolin, and the novel PADRE-Kv1.3 vaccine can promote macrophage/microglia M2 polarization.

Cited by: 3

Author: Jiaying Wang, Jiajia Wang, Jincheng Wa...

Publish Year: 2019

## Enhancement of therapeutic potential of mesenchymal stem ...

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-019-1398-3> ▼

Sep 23, 2019 · After the initial investigations into applications of mesenchymal stem cells (MSCs) for cell therapy, there was increased interest in their secreted soluble factors. Following studies of MSCs and their secreted factors, extracellular vesicles (EVs) released from MSCs have emerged as a new mode of intercellular crosstalk. MSC-derived EVs have been identified as essential signaling mediators ...

Cited by: 2

Author: Kyong-Su Park, Elga Bandeira, Ganesh ...





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Aug 14, 2017 · **Chemokine C C motif ligand 2 (CCL2)**, also known as monocyte chemoattractant protein 1 (MCP-1), is a member of the CC subtype **chemokine** family and signals through its cognate **receptor chemokine receptor type 2 (CCR2)** . The expression of CCL2 is elevated in various diseases characterized by acute and chronic inflammation.

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Publish Year: 2019

## (PDF) Enhancement of therapeutic potential of mesenchymal ...

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**chemokine receptor type 2**, UBR2 ubiquitin protein ligase E3 component n-recognin 2, TGF tumor growth factor Park et al. Stem Cell Research & Therapy (2019) 10:288 Page 6 of 15 apoptosis in ...

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