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Name of journal: World Journal of Experimental Medicine

ESPS Manuscript NO: 14014

Columns: Minireviews

Disease control by regulating P-glycoprotein on lymphocytes in patients with rheumatoid arthritis

Shizuyo Tsujimura, Yoshiya Tanaka

Abstract

The main purpose of treatment of rheumatoid arthritis (RA) is to control activation of lymphocytes with disease modifying antirheumatic drugs (DMARDs), although some patients do not respond adequately to DMARDs. Among various mechanisms of multidrug resistance, P-glycoprotein (P-gp), a member of ATP-binding cassette transporters, causes drug-resistance by efflux of intracellular drugs. Certain stimuli, such as TNF- α , activate lymphocytes and induce P-gp expression on lymphocytes, which can imply drug-resistance, as evident in active RA. Studies from our laboratories showed spontaneous nuclear accumulation of human Y-box-binding protein-1 (YB-1), a MDR-1 transcription factor, in unstimulated lymphocytes, and surface overexpression of P-gp on peripheral lymphocytes of RA patients with high disease activity. The significant correlation between the P-gp expression level and RA disease activity is associated with active efflux of drugs from the cytoplasm of lymphocytes and in drug-resistance. However, the use of biological agents that reduce P-gp expression and P-gp antagonists (e.g., cyclosporine) can successfully



Disease control by regulating P-glycoprotein on lymphocytes in patients \



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...) expression in inflammatory bowel disease patients ... - Farrell - 被引用次数: 284

P-Glycoprotein and Drug Resistance in Systemic ...

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作者: A Picchianti-Diamanti - 2014 - 被引用次数: 4 - 相关文章

2014年3月20日 - Keywords: p-glycoprotein, autoimmune diseases, multidrug ... lupus erythematosus (SLE), rheumatoid arthritis (RA) and psoriatic arthritis (PsA) and will discuss how P-gp may be a therapeutical target in the control of ... of P-gp on the surface of peripheral lymphocytes of RA patients treated with CCS [59].

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expression in patients with early rheumatoid arthritis exposed to methotrexate ... protein (P-gp), may be associated with non-response to DMARD,4 5 although it ...

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作者: S Tsujimura - 2008 - 被引用次数: 76 - 相关文章

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作者: S Tsujimura - 2008 - 被引用次数: 81 - 相关文章

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