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Authors: Tomas Fiedler, Magdalena Rabe, Ralf G. Mundkowski, Sonja Oehmcke-Hecht, Kirsten Peters



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Adipose-derived mesenchymal stem cells release microvesicles with procoagulant activity

Tomas Fiedler¹, Magdalena Rabe², Ralf G. Mundkowski³, Sonja Oehmcke-Hecht^{1,4}, Kirsten Peters^{2,4,5}

¹Institute of Medical Microbiology, Virology, and Hygiene, Rostock University Medical Centre, Schillingallee 70, 18057 Rostock, Germany.

²Department Cell Biology, Rostock University Medical Centre, Schillingallee 69, 18057 Rostock, Germany.

³Institute of Clinical Pharmacology, Center of Pharmacology and Toxicology, Rostock University Medical Centre, Rostock, Germany.

⁴SOH and KP contributed equally to this work.

⁵Corresponding author: kirsten.peters@med.uni-rostock.de

Abstract

Extracellular vesicles are produced by a number of different cell types, among them mesenchymal stromal/stem cells (MSC) of different sources. It has been shown that extracellular vesicles of MSC exert similar therapeutic effects as the cells themselves. Here, we isolated and characterized extracellular vesicles produced by adipose-derived MSC (adMSC) in vitro upon stimulation with the proinflammatory substances lipopolysaccharide (LPS) and tumor necrosis factor (TNF). We found that the number of vesicles produced by

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