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The developing role of extracellular vesicles in autoimmune diseases: special attention to mesenchymal stem cell-derived extracellular vesicles Ortiz G.G.R., Zaidi N.H., Saini R.S., Ramirez Coronel A.A., Alsandook T., Hadi Lafta M., Arias-Gonzales J.L., (...), Maaliw III R.R.

(2023) International Immunopharmacology, 122 , art. no. 110531

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Author name	^	multipotent cells proficient in tissue renewal and regeneration. MSCs have similar properties to SL including immunomodulatory, antioxidant, and neuroprotective effects. Here, we show that nano-SL (1 and 2.5) increased AD-MSCs proliferation and protected from apoptosis. Our findings indicated that the levels of anti-inflammatory agents including IL-10, IL-4, FOXp3 and TGF-B mRNA expression		
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Mahmoudi, M.	(1) >	Patients affected by inflammatory bowel diseases (IBD) can nowadays benefit from a growing number of pharmacological options. However, in moderate-to-severe cases, the therapeutic response is still far from optimal, and treatment changes and optimizations are often required. Thus, researchers in this field are strongly engaged in studies aiming to identify new potential therapeutic targets. Extracellular vesicles (EVs) are tiny subcellular bodies with a phospholipid bilayer envelope containing bloactive molecules, which are released from different cells and are involved in intercellular communication. Recent pre-clinical data show their emerging role in the pathogenesis and treatment of IBD. In our review, we summarize current evidence about the function of EVs as active therapeutic agents in		
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Review	(2) >	people worldwide. Methods: Conventional treatments for diabetes have shown limited success in providing long-term solutions, leading		
Article	(1) >	researchers to explore alternative therapies such as diabetic stem cell therapy and nanomedicine. In this article, we delve into the promising potential of these cutting-edge treatments and their impact on diabetes management. Results: Several achievements had		
Note	(1) >	obtained to treat diabetes type I by merging nanomedicine and cell therapy such as insulin-loaded exosomes and nanoparticles loaded with different drugs. For instance, by engineering exosomes with specific nanocarriers, researchers can precisely deliver some molecules to target cells, promoting tissue repair and regeneration. Conclusions: It seems that using nanomedicine and cell therapy, we can explore the inventive way for a future somewhere diabetes is no longer a problem for millions, and people can hold a great quality life. Graphical Abstract: [Figure not available: see fulltext.].		
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The remarkable diversity of lymphocytes, essential components of the immune system, serves as an ingenious mechanism for maximizing the efficient utilization of limited host defense resources. While cell adhesion molecules, notably in gut-tropic T cells, play a central role in this mechanism, the counterbalancing molecular details have remained elusive. Conversely, we've uncovered the molecular pathways enabling extracellular vesicles secreted by lymphocytes to reach the gut's mucosal tissues, facilitating immunological regulation. This discovery sheds light on immune fine-tuning, offering insights into immune regulation mechanisms.

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