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Macrophage regulation of graft-versus-host disease

Hong YQ *et al.* Macrophage in GVHD

Ya-Qun Hong, Bo Wan, Xiao-Fan Li

Abstract

Hematopoietic stem cell transplantation has become a curative choice of many hematopoietic malignancy, but graft-versus-host disease (GVHD) has limited the survival quality and overall survival of hematopoietic stem cell transplantation. Understanding of immune cells reaction in pathophysiology of GVHD has improved, but a review on the role of macrophage in GVHD is still absent. Studies have observed that macrophage infiltration is associated to GVHD occurrence and development. In this review, we summarize and analyze the role of macrophage in GVHD based on pathophysiology of acute and chronic GVHD, focusing on the macrophage recruitment and infiltration,

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However, the success of the procedure is limited by the life-threatening **complication graft-vs.-host disease** (GVHD), in which the gastrointestinal (GI) tract, skin and liver are preferentially damaged (2, 6–9). GVHD is mediated by infused donor T cells that recognize and react to histocompatibility differences between the **host** and donor (9–12).

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Dendritic Cell Regulation of Graft-Vs.-Host Disease: Immunostimulation and Tolerance
Hongshuang Yu 1 , Yuanyuan Tian 1 , Ying Wang 1 , Shin Mineishi 2 and Yi Zhang 1,3 * 1 Fels Institute for Cancer Research and **Molecular Biology**, ...

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Acute graft-versus-host **disease** (GVHD) is a life-threatening complication after allogeneic hematopoietic cell transplantation (allo-HCT). About 50% of patients with severe acute GVHD fail to respond to corticosteroids, and steroid-refractory severe GVHD has a dismal prognosis with a 1-year survival rate of less than 20% (1).

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Macrophages play a crucial role in the tissue-repair response, are found in close proximity with collagen-producing fibroblasts and as demonstrated in multiple **disease** models, contribute to fibrosis. 110,111 In both preclinical and clinical cGVHD, **macrophages** have been shown to accumulate in fibrotic lesions. 28,72,112 However, the factors ...

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