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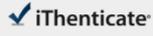
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Abstract. Purpose of review: Although allogeneic hematopoietic stem cell transplantation (allo-SCT) is potentially curative for a number of hematologic malignancies, its use is limited by the development of a...

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Better **understanding** of transplantation immunology and the use of multi-modal immunosuppression protocols, can decrease the risk of **graft** failure and **graft-versus-host disease** (GVHD) after HSCT. Neve...



Name of Journal: *World Journal of Transplantation*

Manuscript NO: 64371

Manuscript Type: MINIREVIEWS

Biomarkers of graft-versus-host disease: understanding and applications for the future

Nagasawa M Biomarker of GVHD

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Biomarkers in Acute Graft- versus-host Disease: New ...

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Hematopoietic cell transplantation (HCT) is a potentially curative therapy for hematologic malignancies that relies on the graft-versus-leukemia (GVL) effect to eradicate malignant cells. GVL is tightly linked to graft-versus-host disease (GVHD) however, in which donor T cells damage healthy host tissues. Acute GVHD occurs in nearly 50% of patients receiving HCT, and damages the skin, liver, and ...

Cited by: 6 Author: Hrishikesh K. Srinagesh, John E. Levine, ...
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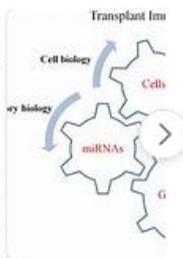
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Introduction: Despite significant advances in treatment and prevention, graft-versus-host disease (GVHD) still represents the main cause of morbidity and mortality after allogeneic hematopoietic stem cell transplantation. Thus, considerable research efforts have been made to find and validate reliable biomarkers for diagnosis, prognosis, and risk stratification of GVHD.

Author: Luisa Giaccone, Danilo Giuseppe Far... Publish Year: 2021

Images of Biomarkers of Graft-vs-host Disease Understandin...

bing.com/images

<p>Conflict of interest disclosure</p> <p>Antonio Galiea No conflict of interest</p>	<p>Properties</p> <p>Free antigens activate IgE on basophils, resulting in release of vasoactive products. The response is fast and occurs in minutes, rather than in hours or days.</p> <p>IgM or IgG antibody binds to antigen on target cell, lead cellular destruction via the membrane attack complex.</p> <p>IgG antibody binds the soluble antigen. A circulating immune complex is formed, which is deposited in the tissue (vessel walls), initiating a local inflammatory reaction.</p> <p>Antigen presenting cells activate T cells. During subsequent contact with antigen, the memory cells activate macrophages resulting in inflammatory response and tissue damage.</p>	 <p>The diagram illustrates the complex interactions in transplant immunology. It shows 'Cell biology' and 'Transplant Immunology' as interconnected processes. 'Cells' are shown as central components, with 'mRNAs' being produced and regulated within this system. The diagram uses arrows to indicate the flow and interaction of these biological elements.</p>
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