

## Special Issue

# Novel Insights into Hematopoietic Cell Transplantation and Cellular Therapies

### Message from the Guest Editors

Cellular therapies are the cornerstone of state-of-the-art treatment in hematologic malignant and non-malignant diseases. Although novel cellular therapies such as CAR-T cells and gene therapy, have revolutionized the field, autologous and allogeneic hematopoietic cell transplantation remain key modalities in treatment algorithms. Over the last few years, novel techniques in established modalities, such as alternative donors, reduced intensity or toxicity regimens, prophylaxis and treatment for graft-versus-host-disease, have shown significant improvements. Nevertheless, novel biomarkers, early predictors and treatments of life-threatening complications such as endothelial injury syndrome, as well as novel biologic agents for graft-versus-host-disease remain under investigation. In parallel, novel cellular therapies have introduced novel toxicities, such as the cytokine release syndrome and neurotoxicity, with an emerging clinical need for early prediction and treatment. Therefore, this Special Issue aims to cover novel insights into both established and novel cellular therapies focusing on molecular advances.

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### Guest Editors

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## International Journal of Molecular Sciences

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