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Bioengineering Liver Transplantation

Guest Editors:

Prof. Dr. Luc J. W. van der Laan

Department of Surgery, Erasmus MC Transplant Institute, University Medical Center, 3015 CN Rotterdam, The Netherlands

Dr. Bart Spee

Department of Clinical Sciences, Faculty of Veterinary Medicine, Regenerative Medicine Center Utrecht, Utrecht University, Uppsalalaan 8, 3584 CT Utrecht, The Netherlands

Dr. Monique M. A. Verstege

Department of Surgery, Erasmus MC Transplant Institute, University Medical Center Rotterdam, 3015 GD Rotterdam, The Netherlands

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Message from the Guest Editors

The aim of this Special Issue is to review, understand, and evaluate new and exciting opportunities from the field on regenerative medicine, biomaterials, and stem cell research for the bioengineering of human liver grafts that can be applied for transplantation and personalized treatment of end-stage liver disease.

In this Special Issue, we welcome reviews and original papers focussing on hepatic cell sources, including adult hepatic stem cells, organoids, fetal and induced pluripotent stem cells, and primary cells (i.e., hepatocytes, cholangiocytes, and endothelial cells) and how these cells can be applied in tissue engineering strategies to generate implantable and personalized liver grafts. Potential topics include, but are not limited to, the following: liver tissue engineering, liver regeneration, graft repair, liver stem cells and organoids, bio-scaffolds, and 3D printing.

Keywords

- Tissue Engineering
- Liver regeneration
- Graft repair
- Liver stem cells & organoids
- Bio scaffolds
- Bio printing



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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical
Engineering, Texas A&M
University, College Station, TX
77843, USA

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Bioengineering Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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