NEDERLANDSE TRANSPLANTATIE VERENIGING

Clinical Review Symposium

From Immune Tolerance to Regeneration:
The Future is Here!

Thursday 12 November 2026
In de Driehoek, Utrecht

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Introduction to theme

This scientific symposium highlights the latest advances in transplantation, regenerative medicine, and bioengineering. The programme explores innovative strategies to improve transplant outcomes, including immune tolerance induction, cell-based therapies, organ engineering, epigenetic editing, and machine perfusion technologies.

Participants will gain insight into emerging approaches for organ repair and regeneration, targeted drug and cell delivery, senolytic therapies, and novel methods to reduce graft immunogenicity. By bringing together cutting-edge developments from both basic science and clinical research, the symposium provides healthcare professionals with an overview of future directions in transplantation medicine and regenerative therapies.

Inleiding tot thema

Dit wetenschappelijk symposium belicht de nieuwste ontwikkelingen binnen transplantatiegeneeskunde, regeneratieve geneeskunde en bio-engineering. Het programma richt zich op innovatieve strategieën om transplantatie-uitkomsten te verbeteren, waaronder immuuntolerantie-inductie, celtherapieën, orgaanengineering, epigenetische modificatie en machineperfusietechnologieën.

Deelnemers krijgen inzicht in nieuwe benaderingen voor orgaanherstel en -regeneratie, gerichte toediening van geneesmiddelen en cellen tijdens perfusie, senolytische therapieën en innovatieve methoden om de immunogeniciteit van donororganen te verminderen. Door baanbrekende ontwikkelingen uit zowel fundamenteel als klinisch onderzoek samen te brengen, biedt het symposium zorgprofessionals een actueel overzicht van toekomstige richtingen binnen de transplantatiegeneeskunde en regeneratieve therapieën.

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Programme

09.00 – 09.30 *Welcome tea and coffee*

09.30 – 09.35 *Welcome by Sarwa Darwish Murad, chair NTV*

Scientific programme in ENGLISH

Session 1: **Are we approaching the end of Immunosuppression?**
Chair: *Jan Stephan Sanders (NTV, UMCG)*

09.35 - 10.20 Keynote lecture | Proof of concept in Treg therapy - ONE and TWO makes THREE?
Fadi Issa – University of Oxford – Oxford, ENG

10.20 – 10.45 Mesenchymal stromal cells in transplantation and inflammation
Soufian Meziyerh - LUMC – Leiden, NL

10.45 - 11.15 *Morning break - Tea and Coffee*

Session 2: **Latest developments in organ engineering and repair**
Chair: *Dorottya de Vries (NTV, LUMC)*

11.15 - 11.40 Can we build a liver from scratch?
Jorke Willemse - Erasmus MC – Rotterdam, NL

11.40 - 12.05 Lung regeneration – a Mission Possible?
Tji Gan – UMCG – Groningen, NL

12.05 – 12.30 Rewriting history: Epigenetic editing
Marianne Rots – UMCG – Groningen, NL

12.30 - 13.30 *Lunch break*

Session 3: **Bioengineering & Perfusion Platforms**
Chair: *Lotte Wieten (NTV, MUMC+)*

13.30 – 13.55 Regeneration and genetic engineering of liver and kidney grafts
Leonie van Leeuwen – UMCG – Groningen, NL

13.55 – 14.20 Drug delivery and therapeutic options during ex-vivo perfusion of the liver
Ian Alwayn – LUMC – Leiden, NL

14.20 – 14.45 Out with the old: potential applications of senolytics
Hannah Esser - Erasmus MC – Rotterdam, NL

14.45 - 15.15 *Afternoon break – tea and coffee*

Chair: Sebastiaan Heidt (NTV, Erasmus MC)

15.15 – 16.00 Keynote lecture | The Silence of the (H)LA(MB) – making the non-self invisible
Rainer Blascyzk – Hanover Medical School - Hanover, DE

16.00 - 17.00 *Networking drinks*