



**ANNUAL SYMPOSIUM
June 12th and 13th 2023**

Congrescentrum De Werelt

Westhofflaan 2, 6741 KH Lunteren



MONDAY JUNE 12th 2023

9.00 Registration and Coffee

9.30 Welcome and Opening Announcements

Victor van Beusechem, President of the NVGCT

9.45 KEYNOTE LECTURE I

MARIA THEMELI, Amsterdam university medical centers, Amsterdam
Next generation of CAR T cell therapy: improved efficacy and availability

10.30 - 10.45 EXHIBITOR PITCHES

Twist Biosciences, Thermo Fisher Scientific, Eurofins, BioTechne, BioLamina, ChemoMetec, Nectsgen

Chair: **Sabine van der Sanden**

10.45 - 12.00 SESSION I Gene Therapy

Chair: **Ingrid de Visser**

10.45 **Bas Blits, Netherlands Institute for Neuroscience, Amsterdam**
Capsid modification for optimization of AAV-mediated gene therapy for rare bleeding disorders

11.15 Coffee break

11.30 **Peiyu Li, Amsterdam University Medical Centers, Amsterdam**
Human non-small cell lung cancer tumor models on fertilized chicken eggs for preclinical evaluation of cancer gene therapies

11.45 **Niek van Til, Amsterdam University Medical Centers, Amsterdam**
Gene therapy for vanishing white matter

12.00 – 13.00 NVGCT & ZonMW YOUNG INVESTIGATOR SPEED DATE CHALLENGE

Chair: **Jan Theys**

12.00 Introduction / explanation Speed Date Challenge

12.10 **Jella van de Laak (Maastricht University), Selas Bots (Leiden University Medical Center) & Leon Potgeter (University of Lausanne)**

Combining “inside out” C. sporogenes with “outside in” oncolytic virotherapy to improve anti-tumour efficacy in solid tumours

12.30 Speed Dating for Young Investigators (senior researchers can network)



13.00 - 14.00 LUNCH

14.00 - 15.30 SESSION II Cell Therapy

Chair: Toos Daemen

- 14.00 **Pim Pijnappel, Erasmus Medical Center, Rotterdam**
Cell- and genetic therapies for lysosomal disorders
- 14.30 **Renee Raaijmakers, Radboud University Medical Center, Nijmegen**
Healthy primary pericytes mitigates disease characteristics in a 2D myogenic cell model for myotonic dystrophy
- 14.45 **Monica Raimo, Glycostem Therapeutics, Oss**
Stem cell-derived natural killer cells – The new hope for cancer immunotherapy
- 15.15 **Ellen Stelloo, Cergentis B.V., Utrecht**
Robust transgene integration site analysis and comprehensive genetic QC of genetically modified T-lymphocyte cells

15.30 Coffee break

16.00 - 16.50 COMPANY PRESENTATIONS

Chair: Hilde van Tongeren

- 16.00 **Melissa van Pel, Nectsgen, Leiden**
Process development and testing strategy for cell and gene therapies
- 16.25 **Amiet Chhatta, Thermo Fisher Scientific, Bleiswijk**
Cell & Gene Therapy Solutions by Thermo Fisher Scientific; closed cell therapy manufacturing & viral vector solutions

17.00 - 18.00 POSTER SESSION & INFORMAL NETWORKING

18.00 - 18.30 GENERAL ASSEMBLY NVGCT

19.00 DINNER

20.30 FAMOUS NVGCT PUBQUIZ

Quizmaster: Jan Theys



TUESDAY JUNE 13th 2023

9.00 Announcement finalists Speed Date Challenge to be prepared for a pitch!

9.05 KEYNOTE LECTURE II

ALBERTO AURICCHIO, Telethon Institute for Genetics & Medicine, Naples
ExpEditing AAV gene therapy

Chair: Rob Collin

9.50 - 10.50 SESSION III Cardiac Diseases

Chair: Max Medina Ramírez

9.50 **Geert Boink, Amsterdam University Medical Centers, Amsterdam**
Gene and cell therapies for cardiac arrhythmias

10.20 **Jianan Wang, Amsterdam University Medical Centers, Amsterdam**
SCN10A-short gene therapy for the treatment of cardiac conduction disorders

10.35 **Timo Jonker, Amsterdam University Medical Centers, Amsterdam**
Transcriptional optimization of cardiac gene therapy

10.50 Coffee break

11.00 - 11.45 SESSION IV DNA & RNA editing

Chair: Enrico Mastrobattista

11.00 **Frauke Coppieters, Ghent University, Ghent**
The quest for novel non-coding therapeutic targets for inherited blindness

11.30 **Elena Herrera Carrillo, Amsterdam University Medical Centers, Amsterdam**
CRISPR-Cas therapy towards a cure for HIV/AIDS

11.45 - 12.15 Greiner Award for Best Thesis 2022

Chair: Rob Collin

12.15 - 12.45 NVGCT & ZonMW YOUNG INVESTIGATOR SPEED DATE CHALLENGE

Chair: Jan Theys

Pitches three finalists (5 minutes pitch, 5 minutes questions each)

12.45- 13.30 Lunch



13.30 - 15.15

SESSION V

Cancer

Chair: Vera Kemp

- 13.30 **Rob Coppes, University Medical Center Groningen, Groningen**
Transplantation of autologous submandibular gland organoids to ameliorate xerostomia after radiotherapy - The RESTART study
- 14.00 **Darshak Bhatt, University Medical Center Groningen, Groningen**
Modelling the spatial dynamics of oncolytic virotherapy
- 14.15 **Tereza Brachlova, Amsterdam University Medical Centers, Amsterdam**
Introducing ORCA-020: construction and characterization of a conditionally replicating oncolytic adenovirus encoding constitutively active GSK3 β
- 14.30 **Merve Yildiz, Maastricht University, Maastricht**
Living anticancer *Clostridium sporogenes* colonizes *in vitro* 3D necrotic spheroids
- 14.45 **Marco Huberts, Erasmus Medical Center, Rotterdam**
Near-patient models for pancreatic cancer for evaluation of oncolytic efficacy of adenovirus, reovirus, Newcastle Disease virus and measles virus
- 15.00 **Nicole Dam, Leiden University Medical Center, Leiden**
Zeb1 downregulation sensitizes pancreatic cancer-associated fibroblasts to killing by oncolytic reovirus through upregulation of the reovirus receptor Junction Adhesion Molecule A

15.15 **Coffee break**

15.30 **NVGCT OUTSTANDING ACHIEVEMENT AWARD LECTURE**

Chair: Victor van Beusechem

THIERRY VANDENDRIESSCHE, Free Brussels University, Brussels
Towards a cure for hemophilia: 30 years in the making

16.15 - 16.30

CLOSING CEREMONY

- 16.15 *Announcement winner Thermo Fisher Scientific Best Abstract Award*
Announcement winners ZonMW Speed Date
- 16.30 Meeting Closure
Victor van Beusechem, President of the NVGCT