

Program 33rd MGC SYMPOSIUM
Tuesday 30 September 2025 – KINO Rotterdam

8:30 Coffee and Registration

9:05 Opening: Joost Gribnau

Chairman: Silvère van der Maarel / Sjaak Neefjes

9:10 Eva Niggel (Clinical Genetics, EMC)

Developing targeted therapy for TSC-Associated Epilepsy: From metabolic intervention to Antisense Oligonucleotides

9:30 Fu Wei (Anatomy and Embryology, LUMC)

Immune Cell Dynamics in Human Adult Ovary: Insights from Single-Cell Spatial Omics Analysis

9:50 Ashutosh Choudhury (Molecular Genetics, EMC)

Replication Stress-Induced Chromatin Loops Protect Forks and Maintain Genome Stability

10:10 Jurjun van der Velde (LACDR, UL)

Splicing factor SRSF7 as a critical regulator of breast cancer metastasis

10:30 Coffee/tea

Chairman: Ype Elgersma / Bob van de Water

11:00 Marien van der Stel (Developmental Biology, EMC)

Studying Diamond Blackfan Anemia Syndrome in iPSCs: genetic correction of RPS26 haploinsufficiency

11:20 Pedro Sant'Anna Barbosa Ferreira (Molecular Epidemiology, LUMC)

The Absence of Genetic Risk for Cardiovascular Diseases in Exceptional Survival (Longevity)

11:40 Selçuk Yavuz (OIC, EMC)

Chromatin organization by cohesin regulates compartmentalization and transcriptional activity of androgen receptors

12:00 Mengyuan Li (Anatomy and Embryology, LUMC) *winner best talk MGC Workshop 2025*

Engineering Cas12 with an unbiased domain insertion library screening

12:20 Josephine van Asbeck (Clinical Genetics, LUMC)

The small vessel disease phenotype associated with monoallelic NOTCH3 loss-of-function variants

12:40 Lunch

Chairman: Niels Geijsen / Joost Gribnau

13:50 Sam Leonard (Epidemiology and Internal Medicine, EMC)

Immune Signatures of Smoking: Cytokine and Immunoglobulin Dysregulation and Partial Reversibility in a Population-Based Study

14:10 Rosan Kuin (Cell and Chemical Biology, LUMC)

*Determinants of high fidelity DNA synthesis in the world's most deadliest pathogen *Mycobacterium tuberculosis**

14:30 Héctor Tejeda (Developmental Biology, EMC)

Vitamin K-Dependent Matrix Gla Protein Orchestrates Stromal Reprogramming to Fibrosis in Myeloproliferative Neoplasms

14:50 Venda Mangkusaputra (Human Genetics, LUMC)

Profiling BRCA1-BRCT interactions and their functional relevance at amino acid-resolution

15:10 David Hackes (Molecular Genetics, EMC)

Persistent and futile DNA repair can lead to severe Cockayne syndrome phenotypes

15:30 Coffee/tea

Chairman: Joost Gribnau

16:00 MGC Symposium Lecture

Ana Pombo (Max Delbrück Centrum für Molekulare Medizin, Berlin)

Topic: *Epigenetic Regulation and Chromatin Architecture*

17:00 Drinks

17:30 Dinner buffet