

11th REMBRANDT SYMPOSIUM

Program

09.30 – 10.30 : Oral session 1 – plenary

10.30 – 11.00 : Break

11.00 – 12.00 : Oral session 2 – plenary

12.00 – 13.00 : Lunch break

13.00 – 14.00 : Poster session 1 -Thrombosis / Stroke

13.00 – 14.00 : Poster session 2 - Metabolic aspects of CVD

13.00 – 14.00 : Poster session 3 - Cardiac disease and single cell analysis

13.00 – 14.00 : Poster session 4 - Vascular biology and vascular disease

14.00 – 14.30 : Break

14.30 – 15.30 : Award session – plenary

15.30 : Adjourn

09.30 – 10.30 : Oral session 1 – Plenary

Chairs : Roel Bijkerk and Stephan Huveneers

- 09.30 – 09.40 : D. Bizzarri
Metabolic risk scores: from metabolome to phenotype and back
- 09.40 – 09.50 : D. Vreeken
Downregulation of endothelial PLXNA4 under inflammatory conditions diminishes vascular integrity
- 09.50 – 10.00: P.R.R. van Gorp
Transcriptome analysis of conditionally immortalized atrial myocytes: identification of Sbk2, a novel atrium-enriched protein involved in sarcomere assembly and maintenance
- 10.00 – 10.10: F.M. Bosada
An atrial fibrillation-associated noncoding region regulates Prrx1 specifically in cardiomyocytes and predisposes to atrial arrhythmias
- 10.10 – 10.20: K. Poels
Immune checkpoint inhibition therapy aggravates T cell-driven plaque inflammation in atherosclerosis
- 10.20 – 10.30: S. Doelare
Microbubbles and UltraSound-accelerated Thrombolysis (MUST) for peripheral arterial occlusions: the first results of a phase II single-arm trial

11.00 – 12.00 : Oral session 2 – Plenary

Chair : Janine van Gils and Maartje van den Biggelaar

- 11.00 – 11.10: A.de Jong
Inhibition of BMP9 and BMP10 signaling by the ALK1-Fc Ligand Trap enhances systemic inflammation and increases vein graft atherosclerosis
- 11.10 – 11.20: E. Dronkers
A small molecule screen identifies novel inducers of EMT that may increase epicardium-driven repair of the heart
- 11.20 – 11.30: C. Liu
Pharmacological treatment with fibroblast growth factor 21 strongly improves plasma cholesterol metabolism to reduce atherosclerosis
- 11.30 – 11.40: F.H.J. Kaptein
Incidence and impact of venous thrombosis, arterial thrombosis and major bleeding in patients with glioblastoma
- 11.40 – 11.50: B. van Driel
Metabolomics in Severe Aortic Stenosis Reveals Intermediates of Nitric Oxide Synthesis As Most Distinctive Markers
- 11.50 – 12.00: M.A.C. Depuydt
Age-induced mast cell activation and antigen presentation in atherosclerosis

13.00 – 14.00 : Poster session 1 - Thrombosis / Stroke

Chairs : Margreet de Vries and Jeffrey Kroon

- 13.00 – 13.05: S. Voigt
Spatial and temporal intracerebral haemorrhage patterns in hereditary Dutch-type CAA patients
- 13.06 – 13.11: T. van Merrienboer
Metformin as medical therapy for abdominal aortic aneurysm: How does it work?
- 13.12 – 13.17: N. Reilly
Fatty acid-induced transcriptomic and methylomic changes in T cells are involved in immunometabolism
- 13.18 – 13.23: S. Cheng
Evolutionary conservation of the γ -carboxy glutamic acid domain in blood coagulation factor X in the Serpentes suborder
- 13.24 – 13.29: R.J.S. Anijs
Identification of tumor-expressed MicroRNAs associated with venous thrombosis in colorectal cancer
- 13.30 – 13.35: Yvonne K. Jongejan
Atherothrombosis model by silencing of protein C in APOE*3-Leiden.CETP transgenic mice
- 13.36 – 13.41: M.Y. Kapteijn
EGFR mutational status is associated with cancer-associated thrombosis in patients with glioblastoma
- 13.42 – 13.47: J.T. Buijs
Quantitative mass-spectrometry-based targeted proteomics of plasma from colorectal cancer patients with venous thromboembolism
- 13.48 – 13.53: G.J.A.M. Boon
External validation of radiological signs of chronic thromboembolic pulmonary hypertension on computed tomography pulmonary angiography at the time of suspected pulmonary embolism

13.00 – 14.00 : Poster session 2 - Metabolic aspects of CVD

Chairs : Gonzalo Sánchez-Duffhues and Arjan Hoogendijk

- 13.00 – 13.05: L. Mulder
SCARB1 deficiency in zebrafish is linked to reduced female fertility in the context of unaltered plasma cholesterol levels
- 13.06 – 13.11: R.A.F. Verwilligen
Absence of scavenger receptors stab1 and stab2 predisposes to macrophage foam cell formation without breaking the atherosclerosis resistance of zebrafish
- 13.12 – 13.17: S.C. Boone
Predicting liver fat content using routinely measured predictors: a development study
- 13.18 – 13.23: J. Oppelaar
Distinct cellular osmoregulatory response in the skin of patients with disturbed glycosaminoglycan metabolism
- 13.24 – 13.29: S.G.S. Verberk
Macrophage ATP citrate lyase deficiency stabilizes atherosclerotic plaques
- 13.30 – 13.35: K.J. Harber
Succinate is an inflammation-induced immunoregulatory metabolite in macrophages
- 13.36 – 13.41: M. Modder
A single day of high fat diet feeding induces lipid accumulation and insulin resistance in brown adipose tissue in mice
- 13.42 – 13.47: S. Kooijman
Alternating light-dark cycles, but not continuous light, aggravates atherosclerosis development in APOE*3-Leiden.CETP mice
- 13.48 – 13.53: M.N, Nicese
Effects of microbiota-derived metabolites on glomerular endothelial cells

13.00 – 14.00 : Poster session 3 - Cardiac disease and single cell analysis

Chairs : Amanda Foks and Kim Schilders:

- 13.00 – 13.05: V. Smit
Age-associated immunity in murine atherosclerosis on macro and single-cell level
- 13.06 – 13.11: P. Montañés Agudo
Minor splicing is required for voltage-dependent ion channel expression in cardiomyocytes.
- 13.12 – 13.17: M. Dik
Validation of the spatial ventricular gradient by intra-individual comparison of sinus beats and ectopic beats
- 13.18 – 13.23: C. Pham
Altered Auto-Phosphorylation of Novel TNNI3K Variants Associated with AV-Nodal Re-Entry Tachycardia and Conduction Disease
- 13.24 – 13.29: Li Jia
Electrophysiologic effects of carbamazepine on cardiac myocytes: a mechanisms of sudden death in epilepsy patients
- 13.30 – 13.35: Y. Xiao
The redox modulating sonlicromanol active metabolite KH176m, and the antioxidant MPG, protects against mild, but not severe, cardiac ischemia-reperfusion injury
- 13.36 – 13.41: F.Y. van Driest
Quantification of myocardial ischemia and subtended myocardial mass at cardiac computed tomography. A pilot study.
- 13.42 – 13.47: T.J. Streef
Single-cell RNA sequencing of human fetal epicardium reveals novel markers and regulators of EMT

13.00 – 14.00 : Poster session 4 - Vascular biology and vascular disease

Chairs : **Hetty de Boer and Aldo Grefthorst:**

- 13.00 – 13.05: M. de Jong
Hobit expressing memory T-cells seem to be present in atherosclerotic lesions, but do not alter plaque development.
- 13.05 – 13.10: H.M. Suleiman
The role of myocardin-derived circular RNAs in phenotypic switching of vascular smooth muscle cells
- 13.10 – 13.15: Y. Zhang
CARM1 inhibitor TP-064 reduces pro-inflammatory cytokine production by macrophages and decreases atherosclerosis susceptibility
- 13.15 – 13.20: L.A. Bosmans
Myeloid CD40 depletion reduces atherogenesis by altering macrophage activation
- 13.20 – 13.25: H.W. Grievink
Stimulation of the PD-1 pathway decreases atherosclerotic lesion development in Ldlr^{-/-} mice
- 13.30 – 13.35: R. Bijkerk
Long Non-Coding RNA MALAT1 mediates endothelial-to-mesenchymal transition and kidney fibrosis
- 13.35 – 13.40: L. Zhang
The effects of Cold-inducible RNA-binding protein CIRBP and CIRBP-AS1 on 14q32 microRNAs expression and in vitro angiogenesis
- 13.40 – 13.45: M.L. van der Bent
Intracranial atherosclerosis: cellular content, inflammatory profiles and spatial expression of miR-494-3p
- 13.45 – 13.50: J. van Gils
Endothelial Netrin-4 prevents endothelial cell senescence and promotes endothelial cell survival

14.30 – 15.30 : Award session – Plenary

Chairs : Monique Jongbloed and Nick van Es

14.30 – 14.50 : Rembrandt Award 2016 to Reinier Boon and Yael Nossent

14.30 – 14.40 : Veerle Kremer

14.40 – 14.50 : Eva van Ingen

14.50 – 14.55 : In memoriam

14.55 – 15.15 : Best Presentations Awards:

14.55 – 14.55 : Best Oral presentation.

14.55 – 15.00 : Best Poster presentation session 1

15.00 – 15.05 : Best Poster presentation session 2

15.05 – 15.10 : Best Poster presentation session 3

15.10 – 15.15 : Best Poster presentation session 4

15.15 – 15.25 : HeArt competition – and the winner is

15.25 – 15.30 : Rembrandt Grant 2020 Award