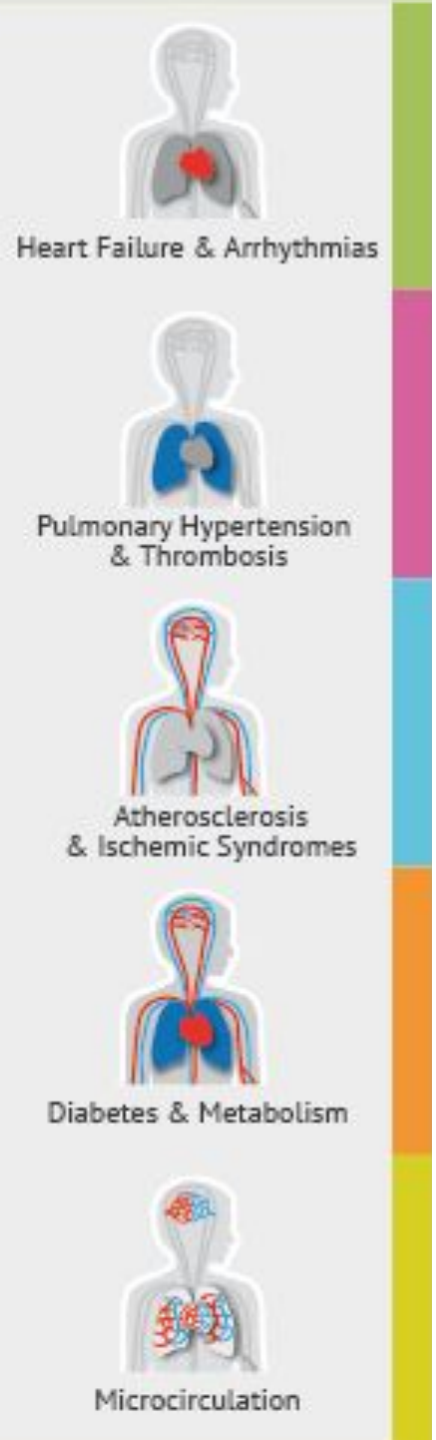


Focus of research group (I)

Name PI: Menno de Winther
Department, UMC: Medical Biochemistry, AMC
Size of research group: 2 tech., 3 PDs, 5 PhD students

Current mission, vision and aims

To define and understand how innate immunity (e.g. monocytes and macrophages) are regulated in the context of (cardio-metabolic) disease, how it contributes to disease and to identify approaches to influence it.

Current focus on *EPIGENETICS*, profiles in disease and epigenetic enzymes.

Heart Failure & Arrhythmias

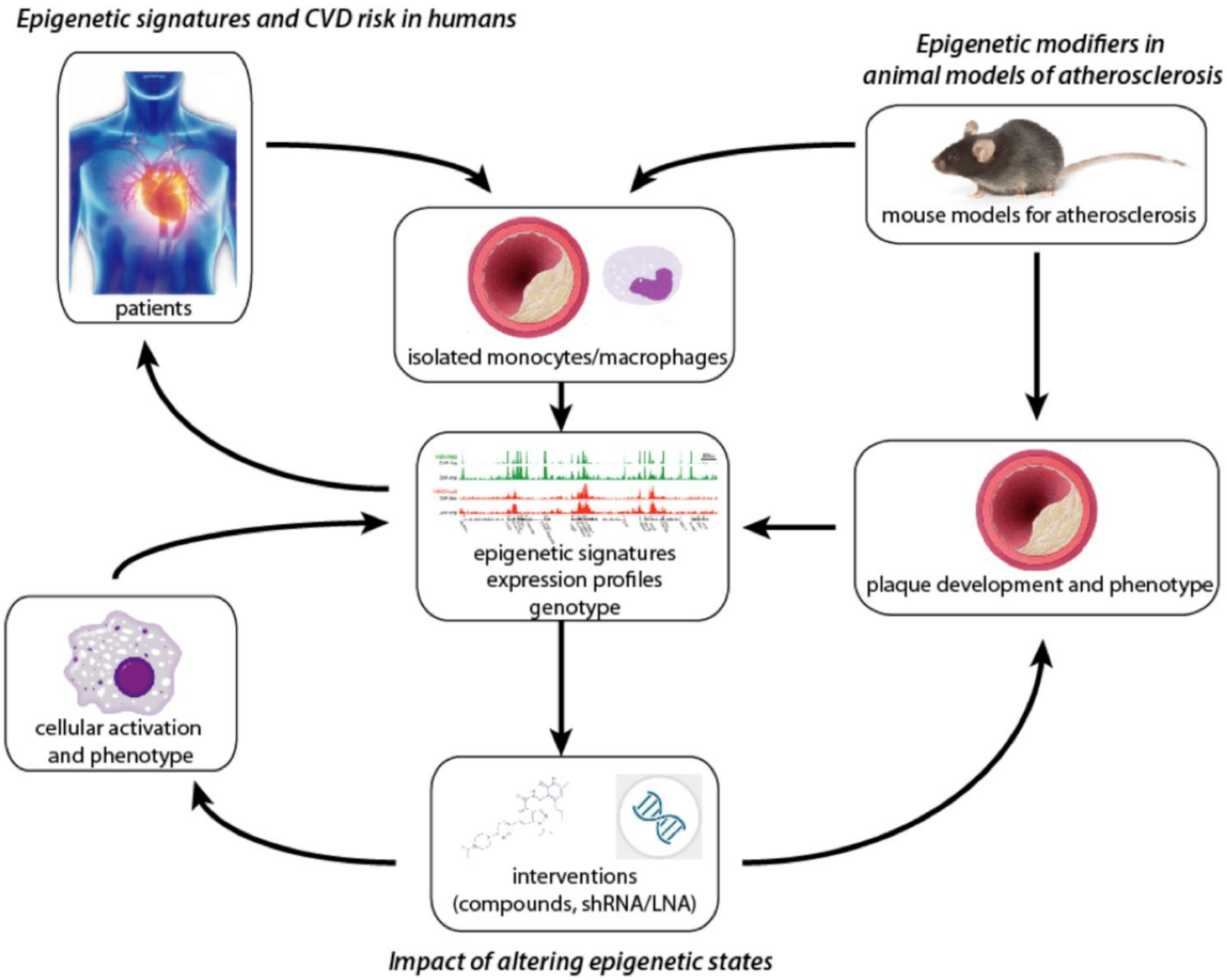
Pulmonary Hypertension & Thrombosis

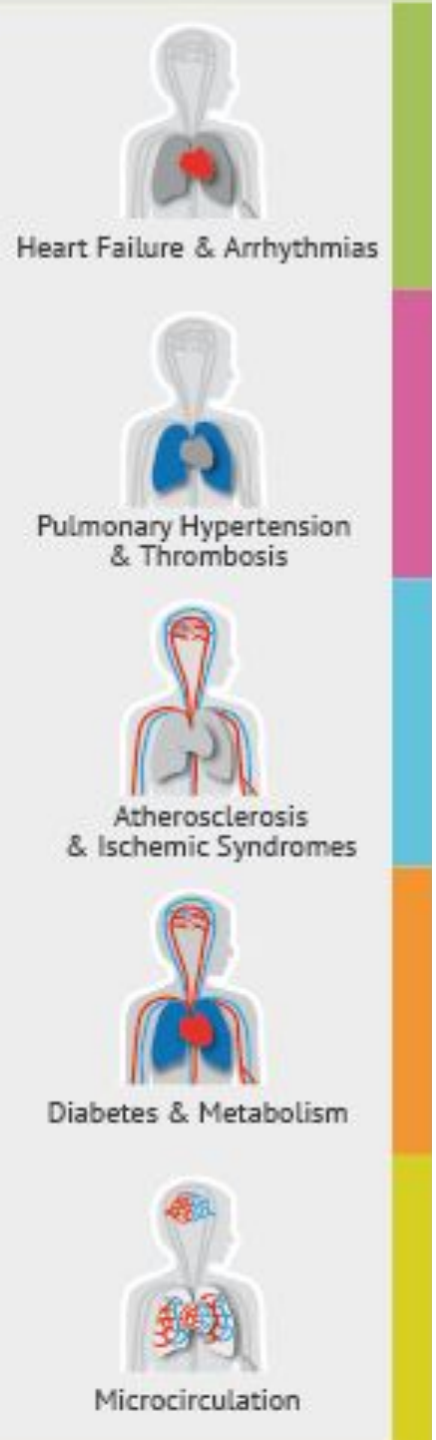
Atherosclerosis & Ischemic Syndromes

Diabetes & Metabolism

Microcirculation

Focus of research group (I)





Focus of research group (II)

Current expertise:

- Human and mouse cell culture systems
- Molecular Biology, Cell Biology, Immunommetabolism
- Animal models for disease (Athero, MI)
- Extensive cell phenotyping by FLOW
- Genomics techniques
  - RNAseq
  - ChIPseq, ATACseq
  - Single cell RNAseq

} bioinformatics

Current funding:

Fondation Leducq

Epimac

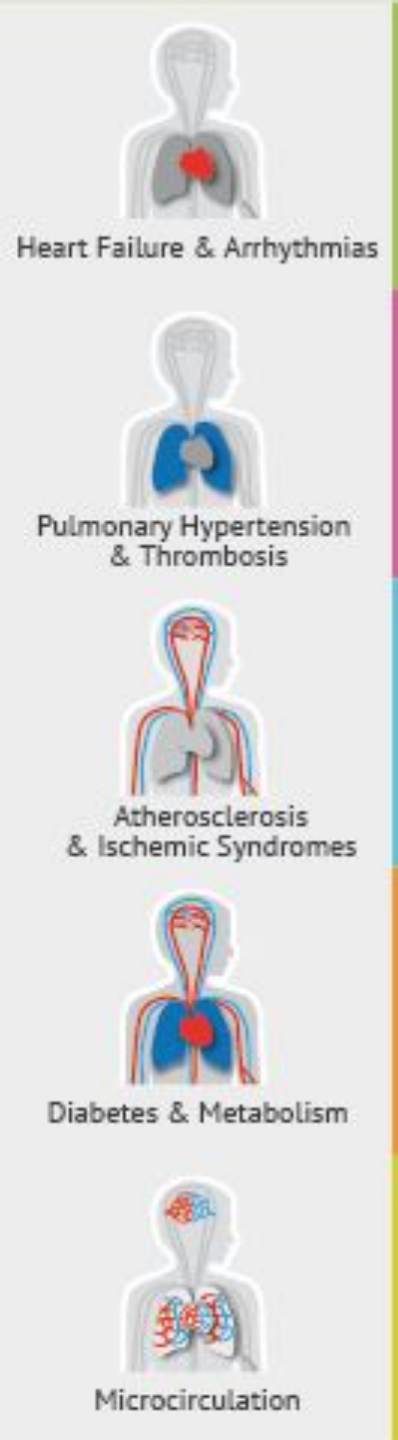
Co-funded by the Horizon2020 framework of the European Union

Nederlandse Hartstichting

CVON Cardio Vasculair Onderzoek Nederland

amc

ACS Amsterdam Cardiovascular Sciences



Future plans

Short term (1-2 year) and long term (>2 year) plans:
Further define monocyte/macrophage regulators
Further implement work on small molecule drugs
Further connect to human/clinical data
Keep up with technological innovations

Necessary infrastructure:
(all close-by)
Cell culture (ML1, ML2)
Molecular biology
Animal facility
State-of-the-art FLOW and Microscopy facility, Genomics facility, Metabolomics facility

Collaborations in ACS:
Van den Bossche, Lutgens, Zelcer, Stroes
(Pinto, Daemen/de Boer)