









# Focus of research group (I)

Name PI: Hilde Herrema

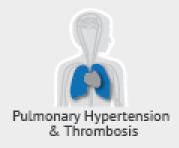
Department, UMC: Experimental Vascular Medicine Size of research group: 3 (2 postdocs, 1 PhD stud)

#### **Current mission, vision and aims**

Mission: Use a translational and integrative research (multidisciplinary) approach to study the development of cardiometabolic diseases. Special interest in the gut microbiome, in particular bacteriophages.

Vision: The microbiome field is in need of mechanistic, translational studies to surpass the predominantly associative work that is dominating the field. This is essential to develop a solid basis for gut microbiome-targeted interventions for cardiometabolic diseases and beyond.











# Focus of research group (II)

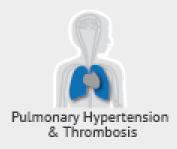
### **Current expertise**

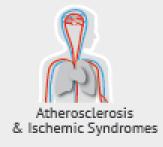
- Preclinical and in vitro approaches to study interactions between phages/bacteria/metabolites with mammalian (immune) metabolism
- Phage-bacterium interactions (computational, in vitro)
- Human intervention studies

#### **Current funding**

Dutch Diabetes Research Foundation ZonMW AGEM Innovation Grant











### Future plans

#### Short term (1-2 year) plan

Plan: to better understand the transkingdom interaction between intestinal phages and bacteria and consequences thereof for human cardiometabolism.

Necessary infrastructure: Microbial MLII lab to set up state of the art *in vitro* set ups; High Performance Computational machines to process large multiomics datasets (HPC or servers)

#### Long term (>2 year) plan

Plan: move to more in-depth assessment (*eg* molecular mechanisms) of microbiome – CMD relation.

#### **Collaboration in ACS**

Diabetes&Metabolism ACS; HELIUS