Focus of research group (I)

Name: Onno Holleboom, internist
Department, UMC: Vascular Medicine, AMC
Size of research group: 3 PhD students

Current mission, vision and aims

1) First clinic for non-alcoholic fatty liver disease (NAFLD) @ internal medicine in NL
   - Bridge between diabetology and hepatology
   - Early identification, pre-HCC and cirrhosis

2) ANCHOR – Amsterdam NAFLD-NASH cohort
   – 1100 patients - Identify biomarkers to predict progressors to NASH and those who remain in simple steatosis
   - Validation of fibroscan elastography

3) Genetic defects of lipophagy
   - Autophagy of lipid droplets – protection against lipotoxicity
   - New pathways and treatment targets for NAFLD
Focus of research group (II)

**Current expertise**

- Endocrinology, lipidology, genetics, metabolic diseases
- Hepatology
- Intracellular lipid metabolism
- CRISPR editing
- iHeps

**Current funding**

- Veni 250 k
- LITMUS consortium 400 k
- AMC Innovation grant metabolic fluxes 500 k
- AG&M Institute Innovation grant iHeps 50 k
- Finalist 3/8 for ACS PhD scholarship
Future plans

Short term (1-2 year) plan
Plan:
Develop outpatient clinic, expand ANCHOR cohort
Identify new NASH pathways and treatment targets via lipophagy

Necessary infrastructure:
- Outpatient clinic – Fibroscan
- Expand awareness and network for case finding ANCHOR cohort
- iHeps @ Tytgat Institute
- Intracellular work @ EVG and biochemistry

Long term (>2 year) plan
Plan:
New insights from ANCHOR cohort – systems biology
NALFD in Helius
Involvement in implicating first NAFLD drugs in patient care

Necessary infrastructure:
Participating centers in ANCHOR cohort

Collaboration in ACS
Vascular Medicine: Nieuwdorp, Groen, Hovingh, Groen, Serne
Biochemistry: Zelcer
Hepatology: Beuers, Takkenberg, Ramsoekh