







Focus of research group (I)

Name PI: Dop Simonides

Department, UMC: Physiology, VUmc

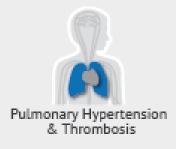
Size of research group: 2

Mission Reduce the burden of chronic heart failure

Vision Impaired cardiac thyroid hormone (TH) action is a critical factor

Aim Develop therapy to maintain cardiac TH action in remodeling heart



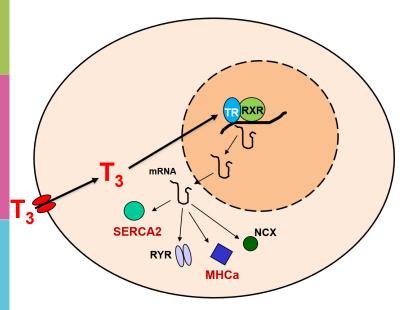








Focus of research group: Cardiac TH action





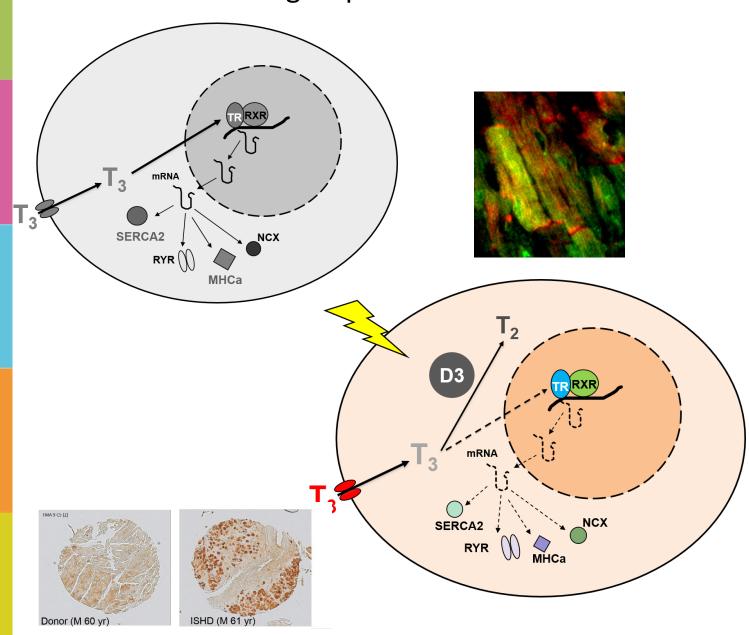








Focus of research group: Cardiac TH action













Focus of research group (II)

Current expertise

- In vivo analysis of cardiac TH transcriptional activity
- Conditional, cardiac specific knock-out of Diodinase type 3 (Dio3)
- Standard molecular biological and tissue analyses

Current funding

- No current external funding
- Commitment of GSK to develop Dio3 inhibitor in partnership











Future plans

Next 5 years

- Optimize and analyze a model of ISO-induced cardiac remodeling and Dio3 expression
- Determine the time course and extent of Dio3-dependent remodeling
- Extend the TH and Dio3 analyses of human cardiac tissue (CHF/donor)

Necessary infrastructure:

- Animal facility
- Labs for cardiac function analyses (echo/MRI/hemodynamics)

Long term plan

- Include MI model
- Search for selective Dio3 blocker in collaboration with industry

Collaboration in ACS

No current collaboration