Life Sciences, Health & Technology in South-Holland
Medical Delta Partners

Building upon the strength of Leiden Delft and Rotterdam

Core partners

- Universiteit Leiden
- Leids Universitair Medisch Centrum
- TU Delft
- Erasmus MC
- Gemeente Delft
- Gemeente Rotterdam
- De Haagse Hogeschool
- Hogeschool Leiden

Participants

- biopartner
- TNO innovation for life
- Incubator
- Erasmus MC
- YES! Delft
Business Partners

> 400 innovative LSH&T companies in Medical Delta

Business partners
Development based on research

Imaging & Image guided medicine

Molecular & Cellular Technologies

Interventions & Care

eHealth & Self Management
Medical Delta Professors
Stimulating long term cooperation in science
Various human cell types in a proper ratio in 3D under real-life physical conditions, connected to sensors on a chip, including:

- **Brain** (Erasmus MC / Leiden University – Cock van Duin, Thomas Hankemeijer)

- **Vessels and heart** (TU Delft, LUMC, UTwente)

- **Tumours** (Erasmus MC, TU Eindhoven, Utrecht University)

*For drug research, fundamental disease insights and later personal diagnosis and treatment*
Catheters to peek inside your arteries

Catheters combining laser and UltraSound

- Catheters that can look at shape and composition of plaques in arteries much better

- Preventing new operations after atherosclerosis treatment (57,000 per year in NL of whom 12% returns within a year)

- Prototype tested in deceased people, ready for animal testing.

- Next step: take a biopsy during the scan

Prof. Breedveld, Prof. Dankelman, Prof. Van der Steen, Awaz Ali (MSc) and Min Wu (MSc)
Created so far
3D model of the human pelvis

Pelvic nerves made visible:
reduced risk in surgery

- 3D model of nerves in pelvis area based on real anatomy.
- Used for training purposes by thousands of students worldwide
- Soon to be used for individual pre-operative planning by surgeons
- Preventing post-operative problems, such as incontinence or erectile dysfunction

Dr. Eisemann, Prof. Van der Velde, Prof. De Ruiter, Dr. Annelot Kraima Dr. Noeska Smit
mEdical Δelta

Life Sciences, Health & Technology in Zuid-Holland