DISEASE MODELING

Room: **Waalse Kerk**
                                         The Waalse Kerk is located right next to the
                                         Stadsgehoorzaal. Enter the building from the outside.

Time: **Tuesday 13:30 to 15:00**
Chair(s):   **Erik Danen & Annelien Zweemer**
Organizing FIGON partner(s):   **LACDR**

Advances in modeling aspects of disease are key to improve drug discovery and development. In this session new models and their application to drug testing are discussed. First, recent advances are presented in the implementation of patient-derived organoids in anti-cancer drug screening as well as personalized testing and optimization of CFTR targeting drugs for cystic fibrosis. Next, implementation of stem cell- and ex/in vivo models recapitulating pathological vasculature for development of therapeutic strategies for vascular normalization is discussed. Lastly, new 3D cell-based models allowing quantitative monitoring of key dynamic parameters underlying tissue fibrosis and tumor immunity are presented and their application in drug screening and optimization of therapeutic strategies is shown.

Invited lectures:

13:30 – 14:00   **Organoid models for personalized drug testing in CF and cancer**
                       Sylvia Boj – CSO, HUB Organoids Utrecht

14:00 – 14:30   **Modeling vascular disease for drug development**
                       Franck Lebrin – Internal Medicine, LUMC Leiden / Physics for Medicine Paris, INSERM

14:30 – 15:00   **Medium throughput 3D co-culture models for drug discovery and development in fibrosis and cancer immunity**
                       Anita Liao – LACDR, Leiden University, Leiden

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