Radboud Research Rounds

(Bio)artificial organs and organ models

Date: 3 February 2022
Zoom ID: 852 5786 4881
Passcode: 684029

16:00 Welcome and introduction
Joost Hoenderop (Renal disorders)

16.05 (Bio)artificial organs and organ models
Dimitrios Stamatialis

16:45 Discussion and college tour **Dimitrios Stamatialis**
Lead by Joost Hoenderop

Dimitrios Stamatialis, professor of Bioartificial organs, head of the department of "Advanced Organ bioengineering and Therapeutics" and member of the management team of the TechMed centre of the University of Twente. He is a board member of European society for artificial organs (ESAO); of the international federation of artificial organs (IFAO); chairman of the working group on bioartificial organs of ESAO; member of the EUTox group of ESAO; section editor of the "international journal of artificial organs" and of the "artificial organs" journal (official journals of the ESAO and IFAO respectively).

In the coming years, due to the aging of the population and the low availability of donor organs there will be urgent need for bioengineered organs to assist, mimic or replace failing patient organs.
These organs could be *artificial,* based on novel biomaterials and designs, to assist or mimic a patient organ or *bioartificial:* combining biomaterials and biologics (cells and tissues) to fully replace failing patient organs. In this talk, we will discuss enabling technologies for development of bioartificial organs with specific attention to artificial and bioartificial kidney, bioartificial pancreas and organ models.

These lectures are intended for students, PhD candidates, post-docs and staff interested in latest fundamental and clinical research strategies within a particular theme. This Radboud Research Round *Plus* is organized by the theme *Renal disorders*.
If preferred to be invited through Outlook, please email: research@radboudumc.nl