



materials-driven regeneration

- Wednesday March 10th, 2021 -

- 4:00pm (CET) -

MDR colloquium

March 2021

Online - Teams meeting

The Research Center for Materials-Driven Regeneration (MDR) is proud to present a series of lectures (monthly). The MDR Gravitation program is a partnership between Eindhoven University of Technology, Maastricht University and Utrecht University, University Medical Center Utrecht and the Hubrecht Institute. MDR brings together materials scientists, cell biologists, tissue engineers and medical scientists to jointly work on the regeneration of tissue and organ function with intelligent, life-like materials.

Enthesis-on -a chip model simulating inflammation

Francesca received her Master’s degree in Medical Biotechnology at the University of Trieste, Italy. During her master, she moved to Germany and started to work at the University of Marburg, where she focused on biomaterials for bone tissue engineering applications. In February 2018 Francesca joined the IBE departments of MERLN as PhD candidate. The main goal of her project is to obtain a deeper understanding of soft tissue-to-bone interfaces and to develop a biomaterials-based strategy to guide and sustain the regeneration of these complex microscale interfaces.



Francesca Giacomini

MERLN Institute for Technology-Inspired Regenerative Medicine

Cells and fibers – A biophysical discourse on “function follows form”

Nicholas Kurniawan is an Assistant Professor at the Department of Biomedical Engineering in TU/e. He obtained his PhD from the National University of Singapore, after which he performed a postdoctoral research as a Marie Curie fellow in AMOLF (Amsterdam). His current research focuses on understanding how the physical and mechanical interactions between cells and cellular environments shape physiological tissue function and drive pathologies. His interdisciplinary team combines approaches from biophysics, soft matter, mechanobiology, microfabrication, and cell biology with an outlook of exploiting cell-materials interactions for biomedical applications. His work is supported by grants from the European Research Council (ERC Starting Grant), the Dutch Research Council (NWO), Health-Holland (TKI-LSH), and Holland High Tech (TKI-HTSM), as well as national consortia Materials-Driven Regeneration (MDR) and EyeSciTe (Chemelot InSciTe). He serves as an Associate Editor for BMC Research Notes (Springer Nature) and is an Editorial Board Member of the journal Communications Biology (Nature Research). He is also the Deputy Managing Director (Europe) for International Indonesian Scholars Association.



Dr. Nicholas Kurniawan

Eindhoven University of Technology

