



UMC Utrecht

# Year review Regenerative Medicine and Stem Cells 2017



# January

## Strategic Alliance TU/e - UU

Utrecht University (UU) and Eindhoven (TU/e), and the University Medical Center Utrecht (UMC Utrecht) intensify their cooperation

# TU/e



**Utrecht University**



## **Kick-off WEAKID project at UMCU**

*“WEAKID aims to validate a miniature wearable/portable dialysis machine in a clinical setting and to prepare the system for CE-marking.”*



# February

## Masterclass Regenerative Medicine

The Netherlands Federation of University Medical Centers organized a masterclass for the ministry of Health Welfare and Sport at the Regenerative Medicine Center Utrecht



# February

First edition online course “Fundamentals of Biofabrication”



# March



## Honorary Doctorate Sangeeta Bhatia MIT

Bhatia's pioneering work in regenerative medicine and her role as an advocate for diversity and women in science recognised and awarded with an honorary doctorate from Utrecht University



Utrecht University



# March

## Official Launch RegMedXB

Dutch scientists join forces in RegMed XB with a focus on curing Diabetes type 1, osteoarthritis and kidney disease.

Partners in the collaboration are health foundations, universities, regional governments, and companies under the slogan: "*Cure instead of care*"

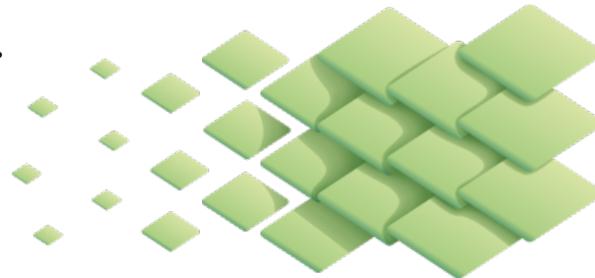


# May

## Gravitation programme grant awarded

Researchers from TU Eindhoven, UMC Utrecht, UU, the Hubrecht Institute and Maastricht University awarded 18.8 million euros from the Netherlands Organization for Scientific Research (NWO zwaartekracht programma).

This grant supports the collaborative program *Materials-Driven Regeneration* aiming to develop intelligent biomaterials that activate and direct the self-repairing capacity of our bodies.



materials-driven regeneration



# June



## Who makes the difference?

Omroep Max visited the RMCU to report about medical innovations in kidney research.





**REGENERATIVE MEDICINE SUMMER SCHOOL 2017**

# August

## ZonMW TAS grants awarded

Prof. Saris and dr. Vonk successfully submitted a project and received a ZonMw TAS grants to continue their research in adult stem cells applications for cartilage defects and osteoarthritis. In the same call another project by Prof. Saris and Vonk in collaboration with dr. Lorenowicz was also granted.

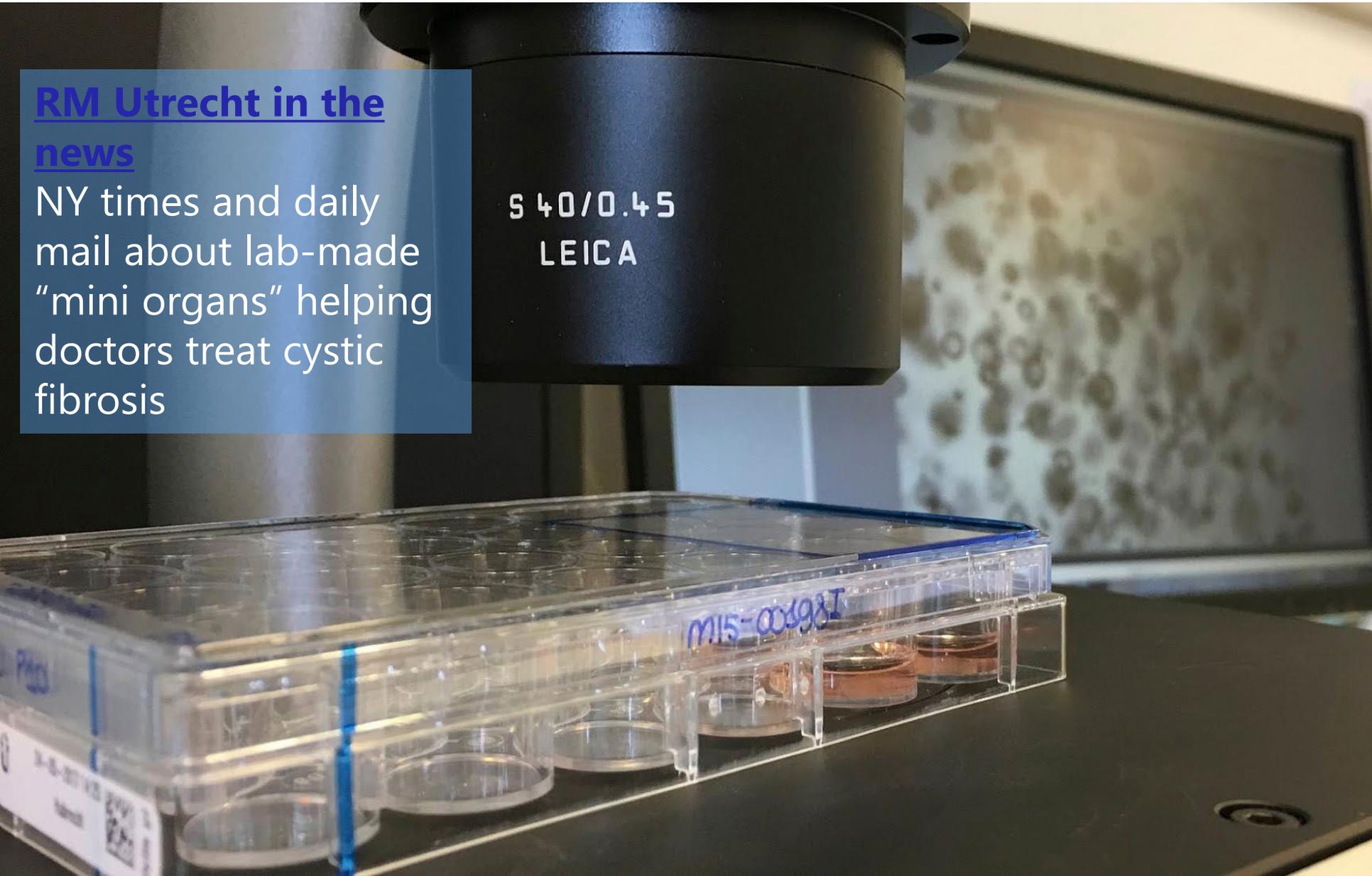


# August

## RM Utrecht in the news

NY times and daily mail about lab-made "mini organs" helping doctors treat cystic fibrosis

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# August

## Summer Barbecue Regenerative Medicine Center Utrecht

Summer celebration with colleagues from the research groups at the RMCU



# September

## Women in science videos

Utrecht University's women professors, like Johanna Westerdijk, inspire future generations. The videos highlight some of our female professors in Utrecht.



**Tina Vermonden**

Associate Professor  
Faculty of Science  
Utrecht University

"I'm really inspired by a challenge."



## **Prof. April Pyle**

Thanks to the support of the Hofvijverkring visiting scientists programme prof. Pyle visited the RM Center Utrecht for a mini-sabbatical at the group of Prof. Niels Geijsen



# October



## Strategic Alliance

Official signing off the strategic alliance UMC Utrecht / UU and University of Twente

# October



**RM Utrecht PI retreat**  
The RM Utrecht PI's discussed the strategy of RM Utrecht

# November

## iGem team Utrecht awarded gold medal for OUTCASST system

During the Giant Jamboree in Boston the iGem team Utrecht presented their work among teams from all around the world.

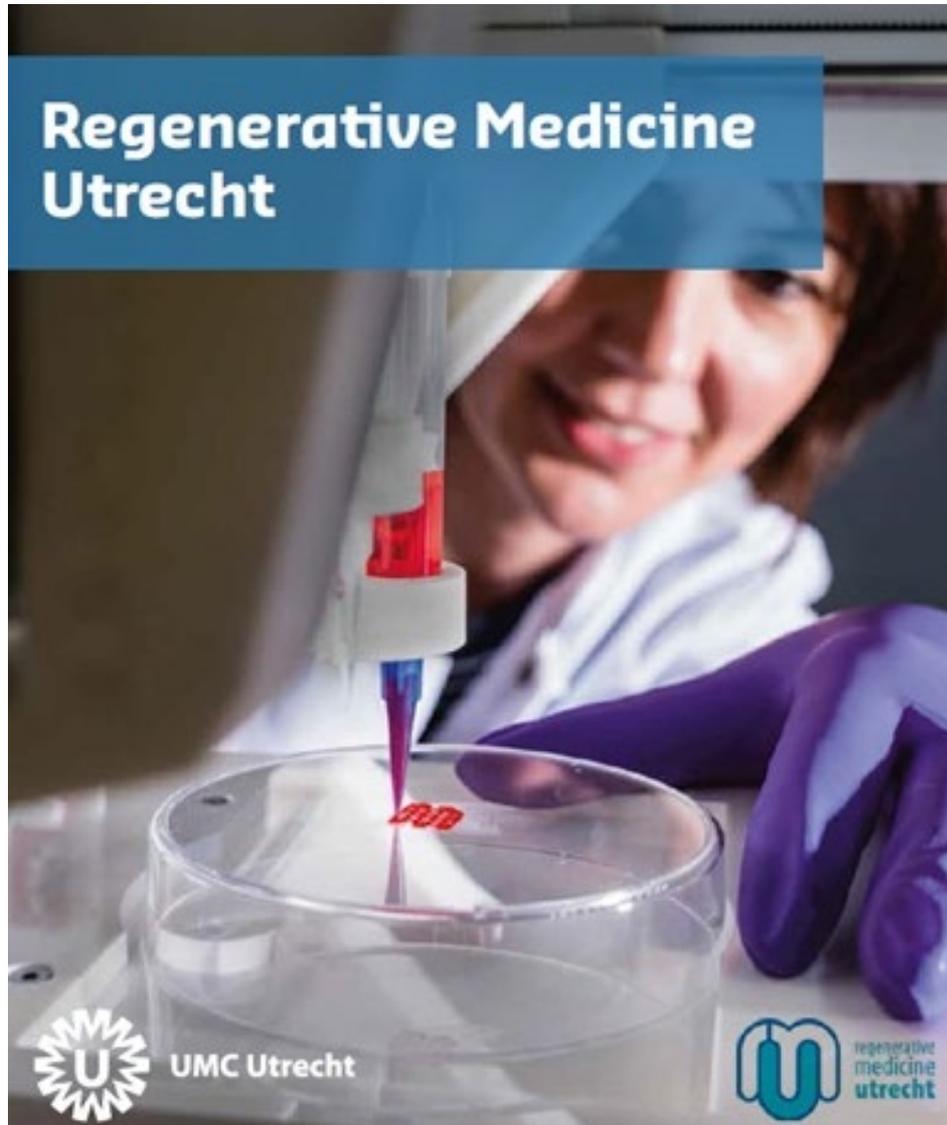


## First cohort of Biofabrication double degree students graduated

Biofabrication is the world's first degree about 3D printing and is offered in collaboration with partners in Australia and Germany



# December



## Launch of the new Regenerative Medicine Utrecht magazine

*“By making this magazine, the next step has been made to put your hidden treasures on the map.”* mr. Jan Henk van der Velden, chair Utrecht Science park



# December



## HydroZONES symposium

Official closing ceremony of the HydroZONES consortium to celebrate and build on the success and to outline the potential of biofabrication.

**Memorandum of understanding UMC Utrecht - university of Wuerzburg** During the HydroZones symposium the official MOU was signed by the deans of UMC Utrecht and the University of Wuerzburg



# Inaugural lectures 2017

Prof. dr. Steven Chamuleau "Central station"

Prof. dr. Madelon Maurice "One for all, all for one"

Prof. dr. Eva van Rooij "Back to the basics"

Prof. dr. Willem Suyker "Heart for the future"

Prof. dr. Daniël Saris "Reconstructive Medicine: Beyond Technology"



# > 14 PhD defenses 2017

**Giora van Straten:** Canine congenital portosystemic shunting - Novel insights into etiology, metabolism, diagnosis and treatment

**Parisa Rahnamay Moshtagh:** Mechanobiology of articular cartilage: Consequences of physical activity and advanced glycation

**Kim Benders:** Osteochondral defect repair: back to nature's template

**Vivian Mouser:** Bio-inks for 3D Printing of Cartilage Implants

**Luca Braccioli:** Transcriptional regulation and cellular strategies in neuroregeneration .

**Janneke Broere :** Extracellular vesicles in synovial fluid: Dynamics during joint inflammation and articular development and promise for joint regeneration and restoration of joint homeostasis

**Ana-Rita Lourenco** Transcriptional mechanisms regulating oncogenic TGF- $\beta$  signaling in breast cancer

**Frans Schutgens:** Adult Stem Cell-Derived Kidney Organoids to Model Tissue Physiology and Disease

**Corma Otte:** Chronic bile duct inflammations in felines: examination and treatment

**Ben Gorissen:** How does the musculo-skeletal system and gait develop in precocial animals?

**Behdad Pouran:** Multi-scale Physico-chemical Phenomena in Articular Cartilage and Subchondral Bone

**Michelle Poldervaart:** Bioactive scaffolds for bone regeneration

**Dr. Desiree Haaften-Visser:** Identification and characterisation of genes associated with congenital intestinal disease.

**Lindsay van den Bossche:** New insights into the genetic and functional aspects of congenital portosystemic shunts in dogs



UMC Utrecht

**We look back at a great year,  
special thanks to all researchers  
and students in the RM Utrecht  
community!**

