

# CURRICULUM VITÆ

## PERSONAL INFORMATION

Name: DURIK Matej  
Position: Post-Doctoral researcher  
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## EDUCATION

2008 – 2012 Ph.D. degree, Erasmus University Medical Centre, Rotterdam, Netherlands  
Lab of Prof. Jan Danser, supervised by Anton Roks

2002 – 2007 Masters in Pharmacology, Comenius University, Bratislava, Slovakia

## RESEARCH EXPERIENCE

04/2017 – Present **Research fellow.** Laboratory of Dr. Bill Keyes, IGBMC (France)

- **Research area:** Cell biology of cellular senescence
- I discovered a novel feature of cellular senescence (“fragmentation”) with potential implications as a senescence marker, mediator of senescence driven inflammaging, amyloid formation and a target for future senomodulatory therapy.
- I implemented a variety of experimental techniques including: live-cell time-lapse confocal imaging, correlative light electron microscopy and FACS sorting.

02/2015 – 02/2017 **Research fellow.** Laboratory of Prof. Jan van Deursen, Mayo Clinic (USA)

- **Research area:** Role of senescence in aging and age-related disease
- I described the causal link between cellular senescence and loss of cardiac function during aging.
- I implemented advanced mouse cardiac phenotyping using echocardiography.
- I investigated the role of senescent cells in the pathophysiology of chronic obstructive pulmonary disease (COPD) and idiopathic pulmonary fibrosis (IPF).
- I supervised a technician and a master student and co-supervised a Ph.D. student.
- I was involved in academic-private cooperation with Unity Biotechnology.

01/2013 – 12/2014 **Phenotyping expert** Lead PI: Dr. Radislav Sedlacek, Czech Centre for Phenogenomics (CCP, Czech Republic)

- **Research area:** Cardiovascular phenotyping of transgenic mouse lines along with investigation of the function of RNF-121 and KLHL5.
- I established and ran the cardiovascular screening unit, which included equipment procurement, standard protocol establishment and training and supervision of a technician.

04/2008 – 11/2012 **Ph.D. student.** Laboratory of Prof. Jan Danser, Supervisor: Dr. Anton Roks.  
Erasmus University (The Netherlands)

- **Research area:** Role of DNA damage in vascular aging
- I characterized the impact of impaired DNA repair on the development of age-related vascular dysfunction.
- I implemented occlusion-reperfusion vasodilator function and tail-cuff blood pressure measurement and a variety of ex-vivo, cell culture and molecular techniques.

09/2002 – 05/2007 **Master student.** Laboratory of Prof. Milan Remko, Comenius University (Slovakia)

- **Research area:** Computer aided drug design
- I performed a molecular modelling study of 5-lipoxygenase inhibitors