Date: 27-11 2022

KATRIEN VANDOORNE

In vivo Multi-Scale Imaging lab

1. ACADEMIC DEGREES

2016-2018: Research Fellow/ Career Development, MGH/Harvard Medical School (USA), Center for Systems Biology, Mouse Imaging Program. Host: Dr. Matthias Nahrendorf

2007-2012: PhD, Weizmann Institute of Science (Israel), Life Science. Supervisor: Dr. Michal Neeman & Dr. Alon Harmelin

2003-2006: Master (Magna Cum Laude), Ghent University (Belgium), Veterinary Medicine 2000-2003: Bachelor (Magna Cum Laude), Ghent University (Belgium), Veterinary Medicine

2. ACADEMIC APPOINTMENTS

2020-present: Assistant Professor, Technion, Faculty of Biomedical Engineering,

2018-2020: Visiting Scientist, Weizmann Institute of Science (Israel), Department of Biological

2018-2020: Eindhoven University of Technology (The Netherlands), Department of Biomedical Engineering, Soft Tissue Engineering

2013-2016: Assistant Professor, Eindhoven University of Technology (The Netherlands), Department of Biomedical Engineering, Biomedical NMR

3. RESEARCH GRANTS

2021-2022: "Multichannel optical imaging to reveal the bone marrow roots of cardio-metabolic inflammation" - Technion EVPR Fund - Mallat Family Research Fund

2022-2024: Metabolic MRI - a new noninvasive approach in clinical diagnosis, treatment, and real time investigation of human diseases - Technion Human Health Initiative - PI Aharon Blank, one of 4 co-PI

2021-2026: Multiplex imaging tools to reveal cardio-metabolic inflammation, Israel Science Foundation research grant

2020: Developing multi-scale systems imaging to study the dynamics of AI-programmed nanomaterials for cancer treatment, Wolfson Foundation – Applicant (co-PI), together with Dr. Avi Schroeder (co-PI) and Dr. Shulamit Levenberg (co-PI), Dr. Yossi Shamay and Dr. Yuval Shaked

4. FELLOWSHIPS, AWARDS AND HONORS	
2022	Bergmann Award for excellent grant proposal from US-Israel BSF
2016-2018	Career Development Grant, awarded by Eindhoven University of Technology,
	Harvard Medical School
2013	Finalist, Young Investigators Award (top 3), European Molecular Imaging Meeting
2010	First place, Best Poster, World Molecular Imaging Conference
2010& 2011	Travel Awards, International Society of Magnetic Resonance Imaging Meeting
2008 - 2009	Research Scholarship, bilateral cooperation Flanders - Israel,
2007	Prestigious personal Fellowship of Research Foundation Flanders (FWO) for a 4-
	year PhD (declined due to PhD at Weizmann Institute of Science)
2006	First place, Pfizer Animal Health Award for Excellent Master Thesis

5. PUBLICATIONS

Number of citations in 2023: 777 citations, H-index 14

24 publications (8 first author, 5 last author) + 2 book chapters (First author) - Selection:

- 1) Rohde, D*, Vandoorne, K*, et al. Bone Marrow Endothelial Dysfunction Promotes Myeloid Cell Expansion in Cardiovascular Disease. Nature Cardiovascular Research. 2021, 1-17. * The authors contributed equally to this paper. | Covered in News & Views of Nature.
- 2) Heyde A, Rohde D, McAlpine CS, Zhang S, Hoyer FF, Gerold JM, Cheek D, Iwamoto Y, Schloss MJ, Vandoorne K, et al.. Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. Cell. 2021;184(5):1348-1361.
- 3) van den Boomen M, Kause HB, Nguyen C, Dankers PYW, Bouten CVC, Vandoorne K. Triplemarker cardiac MRI detects sequential tissue changes of healing myocardium after a hydrogel-based therapy. Nature Scientific Reports 2019; 9(1):p1-15:19366.