

## Curriculum

Prof. Lorenzo Moroni studied Biomedical Engineering at Polytechnic University of Milan, Italy, and Nanoscale Sciences at Chalmers Technical University, Sweden. In 2001, he visited the lab of Professor Luke Lee at University of California Berkley, where he worked on microfabrication technologies for tissue engineering applications. He received his Ph.D. cum laude in 2006 at University of Twente on 3D scaffolds for cartilage and osteochondral regeneration, for which he was awarded the European doctorate award in Biomaterials and Tissue Engineering from the European Society of Biomaterials (ESB). In 2007, he worked at Johns Hopkins University as a post-doctoral fellow in the Elisseff lab, focusing on hydrogels and stem cells. In 2008, he was appointed the R&D director of the Musculoskeletal Tissue Bank of Rizzoli Orthopedic Institute in Bologna, Italy, where he investigated the use of stem cells from alternative sources for cell banking, and the development of novel bioactive scaffolds for bone and cartilage regeneration. From 2009 till 2014, he joined again the University of Twente, where he worked as an assistant professor till 2013 and as an associate professor thereafter in the Tissue Regeneration department within the MIRA institute for Biomedical Technology and Technical Medicine. From 2014 till 2016, he continued as an associate professor position at the MERLN Institute for Technology-Inspired Regenerative Medicine of Maastricht University, for which he also acts as a member of the board of directors. He has been appointed a professor in Biofabrication for Regenerative Medicine since 2016.

From 2012 till 2015, he was a board member of the Young Scientist Forum of the ESB and co-chairman of the "Biofabrication" thematic group within the Tissue Engineering and Regenerative Medicine Society (TERMIS). In 2013, he was elected in the editorial board of the journal "Biofabrication". Since 2014, he is a board member of the International Society for Biofabrication, where he acts as a treasurer. Since 2017, he is a board member of the European chapter of TERMIS. In 2014, he received the prestigious Jean Leray award for outstanding young principal investigators from the ESB and an ERC-starting grant aiming at creating novel scaffolds to control and actively steer stem cell fate. In 2016, he received the Young Investigator Award from TERMIS. In 2017, he was elected as faculty of the Young Academia of Europe. His research group interests aim at developing new biofabrication technologies to generate libraries of 3D scaffolds able to control cell fate. This passes through the design of biomaterials, 3D scaffolds, and surface properties to better understand cell-material interactions.

Lorenzo has been also active in commercial and clinical translation of his research lines. His efforts on designing 3D scaffolds for cartilage regeneration partly inspired the creation of CellCoTec B.V., a company bringing cellular regeneration technologies to the clinics. From 2010 till 2013, he was a co-founder and scientific advisor of the biotech company Screvo B.V., which is committed to the production of animal implantable 3D high throughput screening systems. He is currently exploring possibilities to start a new spin-off to bring regenerative medicine products for vascular applications to the clinics.

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Position: Professor