

## PERSONAL INFORMATION



## Roberto Narcisi

-  Rotterdam, the Netherlands
  -  +31 10 70344626 (work)
  -  [r.narcisi@erasmusmc.nl](mailto:r.narcisi@erasmusmc.nl)
  -  <https://www.erasmusmc.nl/en/research/researchers/narcisi-roberto>
- Sex Male | Date of birth 01/12/1982 | Nationality Italian

## WORK EXPERIENCE

October 2018 - today

**Assistant Professor**

Erasmus MC University Medical Center, dept. Orthopaedics and Sports Medicine, Rotterdam (NL)

- Skeletal disease modelling

January 2015 – October 2018

**Senior Postdoc**

Erasmus MC University Medical Center, dept. Orthopaedics and Sports Medicine, Rotterdam (NL)

- Investigate molecular and cellular behaviour of different sub-populations of adult bone marrow and adipose-derived stem in order to increase their regenerative potential.

August 2015 – October 2015

**Visiting Scholar**

Stanford University School of Medicine (California, USA)

- Trans-differentiation of fibroblasts towards chondroprogenitor cells

January 2010 – December 2014

**Junior Postdoc**

Erasmus MC University Medical Center, Orthopaedic department, Rotterdam (NL)

- Develop and characterize an innovative cartilage repair model (in vivo and in vitro), including the characterization of new biomaterials.

June 2010 – December 2010

**PhD student visitor**

Erasmus MC University Medical Center, Orthopaedic department, Rotterdam (NL)

- Investigate the role of SMAD2/3 and SMAD1/5/8 during chondrocyte expansion and re-differentiation

## EDUCATION AND TRAINING

June 2010 – December 2010

**PhD in Biotechnology and tissue engineering**

Advanced Biotechnology Center (A.B.C.) and University of Genova (Italy)

- Investigate the role of TGF- $\beta$ 1 during the ex-vivo expansion of human articular chondrocytes: the involvement of the Smad signalling pathway

June 2010 – December 2010

**Master in Pharmaceutical and Medical Biotechnology**

University of Genova (Italy)

- Development of a new chemically-defined (serum-free) protocol for the expansion of human articular chondrocytes

## PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)	English (professional proficiency) Dutch (beginner)
Communication skills	<ul style="list-style-type: none"><li>▪ 12 years of teaching activities in Italian and Dutch universities</li><li>▪ Public speaking and improvisation (monthly course by the communication specialist Eldridge Labinjo from 2017 and 2019)</li><li>▪ Teacher for the "Presentation skills" course for PhD students at the Erasmus MC (20021-2022)</li><li>▪ Winner of the FameLab-NL competition in 2017 (science communication competition)</li><li>▪ TEDx speaker in 2019, Alkmaar ("Twist your life like stem cells do"; <a href="https://www.youtube.com/watch?v=22C-3yDNLRo&amp;t=502s">https://www.youtube.com/watch?v=22C-3yDNLRo&amp;t=502s</a>)</li><li>▪ Workshops in storytelling and body language (Dutch British Council, 2016)</li></ul>
Computer skills	<ul style="list-style-type: none"><li>▪ Microsoft Office™ tools</li><li>▪ SPSS</li><li>▪ GraphPad</li><li>▪ Adobellustrator</li></ul>

## ADDITIONAL INFORMATION

---

Publications	<p>List of 10 selected publications</p> <p><u>WNT/beta-catenin signalling interrupts a senescence-induction cascade in human mesenchymal stem cells that restricts their expansion.</u> Lehmann J, <b>Narcisi R</b>, Franceschini N, Chatzivasileiou D, Boer CG, Koevoet WJLM, Putavet D, Drabek D, van Haperen R, de Keizer PLJ, van Osch GJVM, Ten Berge D. Cell Mol Life Sci. 2022 Jan 20;79(2):82. doi: 10.1007/s00018-021-04035-x.</p> <p><u>TWIST1 controls cellular senescence and energy metabolism in mesenchymal stem cells.</u> Voskamp C, Anderson LA, Koevoet WJ, Barnhoorn S, Mastroberardino PG, van Osch GJ, <b>Narcisi R</b>. Eur Cell Mater. 2021 Nov 25;42:401-414. doi: 10.22203/eCM.v042a25.</p> <p><u>Editorial: Cell-Based Approaches for Modulating Cartilage and Bone Phenotype.</u> <b>Narcisi R</b>, Jones E. Front Bioeng Biotechnol. 2021 Jul 2;9:716323. doi: 10.3389/fbioe.2021.716323. eCollection 2021.</p> <p><u>Effect of Inflammatory Signaling on Human Articular Chondrocyte Hypertrophy: Potential Involvement of Tissue Repair Macrophages.</u> Ferrao Blanco MN, Bastiaansen-Jenniskens YM, Chambers MG, Pitsillides AA, <b>Narcisi R</b>, van Osch GJVM. Cartilage. 2021 Dec;13(2_suppl):168S-174S. doi: 10.1177/19476035211021907. Epub 2021 Jun 24.</p> <p><u>Expansion and Chondrogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stromal Cells.</u> <b>Narcisi R</b>, Koevoet WJLM, van Osch GJVM. Methods Mol Biol. 2021;2221:15-28. doi: 10.1007/978-1-0716-0989-7_2.</p> <p><u>Enhanced Chondrogenic Capacity of Mesenchymal Stem Cells After TNF<math>\alpha</math> Pre-treatment.</u> Voskamp C, Koevoet WJLM, Somoza RA, Caplan AI, Lefebvre V, van Osch GJVM, <b>Narcisi R</b>. Front Bioeng Biotechnol. 2020 Jun 30;8:658. doi: 10.3389/fbioe.2020.00658. eCollection 2020.</p> <p><u>Sorting living mesenchymal stem cells using a TWIST1 RNA-based probe depends on incubation time and uptake capacity.</u> Voskamp C, van de Peppel J, Gasparini S, Giannoni P, van Leeuwen JPTM, van Osch GJVM, <b>Narcisi R</b>. Cytotechnology. 2020 Feb;72(1):37-45. doi: 10.1007/s10616-019-00355-w. Epub 2019 Nov 14.</p>
--------------	--

Differential Effects of Small Molecule WNT Agonists on the Multilineage Differentiation Capacity of Human Mesenchymal Stem Cells.

**Narcisi R**, Arikan OH, Lehmann J, Ten Berge D, van Osch GJ. Tissue Eng Part A. 2016 Nov;22(21-22):1264-1273. doi: 10.1089/ten.TEA.2016.0081. Epub 2016 Oct 17.

FGF, TGFβ and Wnt crosstalk: embryonic to in vitro cartilage development from mesenchymal stem cells.

Cleary MA, van Osch GJ, Brama PA, Hellingman CA, **Narcisi R**. J Tissue Eng Regen Med. 2015 Apr;9(4):332-42. doi: 10.1002/term.1744. Epub 2013 Apr 11.

Long-term expansion, enhanced chondrogenic potential, and suppression of endochondral ossification of adult human MSCs via WNT signaling modulation.

**Narcisi R**, Cleary MA, Brama PA, Hoogduijn MJ, Tüysüz N, ten Berge D, van Osch GJ. Stem Cell Reports. 2015 Mar 10;4(3):459-72. doi: 10.1016/j.stemcr.2015.01.017. Epub 2015 Feb 26.

Complete list of publications here:

<https://pubmed.ncbi.nlm.nih.gov/?term=narcisi%20r&sort=date&page=3>

Conferences/Seminars

- Invited lectures in (inter)national events: 22 (of which 15 for scientific conferences and 7 for science communication events)
- Oral presentations in (inter)national conferences: 25
- Poster presentations in (inter)national conferences: 45

Honours and awards

Name of the Award	Amount (€)	Year of award
<b>NWA – WP3 leader</b>	590,000	2022
<b>AO-foundation - Research Network grant</b>	200,000	2019
<b>ReumaNederland-translational call</b>	158,000	2019
FameLab – Dutch national winner (science communication competition)	-	2017
Poster awards – 21 <sup>st</sup> MolMed day	500	2017
Poster awards “Cum Laude” – ICRS	-	2016
<b>Reumafonds-basic research call</b>	158,000	2016
<b>ErasmusMC internal grant</b>	50,000	2016
Trustfonds (Erasmus University)	750	2015
Travel grant (STSM/NAMABIO)	1,000	2015
<b>TAS grant (ZonMw division from NWO)</b>	97,000	2014
<b>VENI grant (STW division from NWO)</b>	250,000	2014
Travel grant (Reumafond)	450	2013
F1000 publication award	-	2012
MSc with honors (110/110 cum laude)	-	2007
<b>TOTAL</b>	<b>1,505,000</b>	

Memberships and extracurricular activities

- Board member and Secretary of the Dutch Society for Matrix Biology (NVMB); since 2017
- Member of the Dutch Society for Biomaterials and Tissue Engineering (NBTE)
- Associate editor for Frontiers in Bioengineering and Biotechnology; since 2019
- Responsible of the LinkedIn page of the Dutch society for matrix biology (NVMB); since 2018
- Member of the scientific committee of the Orthopaedic and Sports medicine department, Erasmus MC; since 2018
- Member of TERMIS (Tissue Engineering and Regenerative Medicine International Society); 2013-ongoing
- Organizer of scientific event for international scientific meeting (e.g., symposia TERMIS meeting); since 2014
- Member of the basic science committee of ICRS (the International cartilage research society); since 2012, and ordinary ICRS member since 2009
- Member of OARSI (Osteoarthritis research society international); since 2021
- Artikel 9, FELASA certificated, for the use of research animals (Leiden University); 2017
- Courses in personal grant writing (Erasmus MC); 2014 and 2016

- Course in basic confocal microscopy (Erasmus MC); 2014
- Course in flow cytometry and cell sorting (BD-Bioscience); 2015
- Course in basic statistics and SPSS (Erasmus MC); 2012
- Courses in cell imaging (University of Genova, and Erasmus MC); 2010 and 2013

Last Update: April 2022