

SSBH 2021 Curriculum Vitae

Name	Marco Sandri
Organization	Department of Biomedical Sciences, University of Padova
Position & Title	Full Professor of Pathology and Head of Department
Educational background & Professional experience	
2019-present	Head of the Department of Biomedical Science, School of Medicine, University of Padova. Padova, ITALY
2014-present	Full Professor, Department of Biomedical Science, School of Medicine University of Padova, Padova, ITALY.
2013-2019	Chair of the Myology Centre, University of Padova, School of Medicine Padova, ITALY
2013-2015	Principal Investigator at TIGEM, Napoli, ITALY
2013- 2014	Associate Professor, Department of Biomedical Science, University of Padova, Padova, ITALY.
2011-present	Adjunct Professor, Department of Medicine, McGill University, Montreal, CANADA.
2010-2015	Associate Telethon Scientist, Dulbecco Telethon Institute at VIMM, Padova, ITALY
2005-2009	Assistant Telethon Scientist, Dulbecco Telethon Institute at Venetian Institute of Molecular Medicine (VIMM), Padova, ITALY.
2006-present	Group Leader at VIMM, Padova, ITALY.
2006- 2013	Assistant Professor, Department of Biomedical Science, University of Padova, Padova, ITALY.

Research Interests

He is particularly interested in understanding the signaling pathways that control muscle mass with a focus on the role of the ubiquitin-proteasome and autophagy-lysosome systems. He was the first to show a transcriptional-dependent regulation of autophagy and protein breakdown. His research has provided insights into mechanisms of regulation of these proteolytic systems and to metabolic adaptations to physical activity.

Publications

- 1) Favaro G, Romanello V, Varanita T, Andrea Desbats M, Morbidoni V, Tezze C, Albiero M, Canato M, Gherardi G, De Stefani D, Mammucari C, Blaauw B, Boncompagni S, Protasi F, Reggiani C, Scorrano L, Salviati L, Sandri M. DRP1-mediated mitochondrial shape controls calcium homeostasis and muscle mass. **Nat Commun.** 2019 Jun 12;10(1):2576. doi: 10.1038/s41467-019-10226-9. IF: 12,121. *Citations:* 70 <https://pubmed.ncbi.nlm.nih.gov/31189900/>
- 2) Tezze C, Romanello V, Desbats MA, Fadini GP, Albiero M, Favaro G, Ciciliot S, Soriano

ME, Morbidoni V, Cerqua C, Loeffler S, Kern H, Franceschi C, Salvioli S, Conte M, Blaauw B, Zampieri S, Salviati L, Scorrano L, Sandri M. Age-Associated Loss of OPA1 in Muscle Impacts Muscle Mass, Metabolic Homeostasis, Systemic Inflammation, and Epithelial Senescence. **Cell Metab.** 2017 Jun 6;25(6):1374-1389.e6. IF: 22,415. doi: 10.1016/j.cmet.2017.04.021.

Citations:170 <https://pubmed.ncbi.nlm.nih.gov/28552492/>

3) Mansueto M, Armani A, Viscomi C, D'Orsi L, De Cegli R, Polishchuk EV, Lamperti C, Di Meo I, Romanello V, Marchet S, Saha PK, Zong H, Blaauw B, Solagna F, Tezze C, Grumati P, Bonaldo P, Pessin JE, Zeviani M, Sandri M*, Ballabio A*. Transcription Factor EB Controls Metabolic Flexibility During Exercise. **Cell Metab.** 2017 Jan 10;25(1):182-196.

* Co-corresponding Authors; #Lead Corresponding author. IF: 21,567. *Citations:119* <https://pubmed.ncbi.nlm.nih.gov/28011087/>

4) Milan G, Romanello V, Pescatore F, Armani A, Paik JH, Frasson F, Seydel A, Zhao J, Abraham R, Goldberg AL, Blaauw B, DePinho RA, Sandri M. Regulation of autophagy and ubiquitin-proteasome system by FoxO transcriptional network during muscle atrophy. **Nat. Comm.** 2015 Apr 10;6:6670. IF: 12,121. *Citations: 263.*

<https://pubmed.ncbi.nlm.nih.gov/25858807/>

5) Sartori R, Schirwis E, Blaauw B, Bortolanza S, Zhao J, Enzo E, Stantzou E, Mouisel E, Toniolo L, Ferry A, Stricker S, Goldberg AL, Dupont S, Piccolo S, Amthor H, and Sandri M. BMP signaling controls muscle mass. **Nat. Genet.** 2013 Nov;45(11):1309-18. IF: 27,603. *Citations: 230*

<https://pubmed.ncbi.nlm.nih.gov/24076600/>

6) Masiero E, Agatea L, Mammucari C, Blaauw B, Loro E, Komatsu M, Metzger D, Reggiani C, Schiaffino S, Sandri M. Autophagy is required to maintain muscle mass. **Cell Metab.** 2009, Dec;10(6):507-15. IF: 21,567.

Citations: 709 <https://pubmed.ncbi.nlm.nih.gov/19945408/>

7) Grumati P*, Coletto L*, Sabatelli P, Cescon M, Angelin A, Bertaggia E, Blaauw B, Urciolo A, Tiepolo T, Merlini L, Maraldi NM, Bernardi P, Sandri M#, Bonaldo P#. Autophagy is defective in collagen VI muscular dystrophies and its reactivation rescues myofiber degeneration. **Nat Med.** 2010, Nov;16(11):1313-20. * Co-first Authors, # Co-corresponding Authors.

Citations: 344 <https://pubmed.ncbi.nlm.nih.gov/21037586/>

8) Mammucari C, Milan G, Romanello V, Masiero E, Ruediger R, Del Piccolo P, Burden S.J., Di Lisi R, Sandri C., Zhao J., Goldberg A.L., Schiaffino S., Sandri M. FoxO3 controls autophagy in skeletal muscle in vivo. **Cell Metab.** 2007 Dec;6(6):458-71. IF: 22,415.

Citations: 1246 <https://pubmed.ncbi.nlm.nih.gov/18054315/>

9) Sandri M., Lin J., Handschin C., Yang W., Arany Z., Lecker S., Goldberg A.L., Spiegelman B.M. PGC-1 α protects skeletal muscle from atrophy by suppressing FoxO3 action and atrophy-specific gene transcription. **Proc Natl Acad Sci U S A.**; 2006. 103(44):16260-5.

Citations: 646 <https://pubmed.ncbi.nlm.nih.gov/17053067/>

10) Sandri M, Sandri C, Gilbert A, Skurk C, Calabria E, Picard A, Walsh K, Schiaffino S, Lecker SH, Goldberg AL. Foxo transcription factors induce the atrophy-related ubiquitin ligase atrogin-1 and cause skeletal muscle atrophy. **Cell.** 2004; 117, 399-412.

Citations:1933 <https://pubmed.ncbi.nlm.nih.gov/15109499/>
