

List of publications

Peer-reviewed publications (in reverse chronological order).

1. Giovanni Tosi, Alessandro Paoli, Gaia Zuccolotto, Emilia Turco, Manuela Simonato, Daniela Tosoni, Francesco Tucci, Monica Giomo, Nicola Elvassore, Antonio Rosato, Paola Cogo, Salvatore Pece, and **Massimo M. Santoro**. CANCER CELL STIFFENING VIA CoQ10 AND UBIAD1 REGULATES ECM SIGNALING AND FERROPTOSIS RESISTANCE IN BREAST CANCER. *Nat Commun.* 2024 18;15(1):8214. doi: 10.1038/s41467-024-52523-y. IF= 17.00.
2. Massimo Andrezzaoli , Francesco Argenton, Bertolucci C, Finazzi D, Chiara Gabellini Marina Mione Anna Pistocchi , Massimo M. **Santoro** , Paolo Sordino, Vincenzo Cavalieri. ZEBRAFISH FROM THE ALPS TO SICILY: THE 4TH ITALIAN ZEBRAFISH. *Zebrafish* 2024, 21(4), pp. 275–278. doi:10.1089/zeb.2024.0140 IF=1.4
3. Stefano Biffo, Davide Ruggero and **Massimo M. Santoro**. THE CROSSTALK BETWEEN METABOLISM AND TRANSLATION. *Cell Metabolism.* 2024 Sep 3;36(9):1945-1962. doi:10.1016/j.cmet.2024.07.022. IF=27.7.
4. Clair M. Kelley, Nicole O. Glenn, Dafne Gays, **Massimo M. Santoro**, and Wilson K. Clements. SCLEROTOME-DERIVED VASCULAR SMOOTH MUSCLE PROGENITORS CONTRIBUTE TO THE HAEMATOPOIETIC STEM CELL SPECIFICATION NICHE. bioRxiv preprint, doi:10.1101/2023.08.09.552695.
5. Munise Merteglou and **Massimo M. Santoro**. EXPLOITING THE METABOLIC VULNERABILITY OF CIRCULATING TUMOUR CELLS. *Trends Cancer.* 2024 Jun;10(6):541-556. doi:10.1016/j.trecan.2024.03.004. IF=18.4.
6. Massimo Busin, **Massimo M Santoro**, JS Weiss. PERIPHERAL CENTER SPARING PRESENTATION OF SCHNYDER CORNEAL DYSTROPHY. *Ophthalmology* S0161-6420(23)00702-9, 2023. doi:10.1016/j.ophtha.2023.09.024. IF=12.8.
7. Matteo Astone, Roxana E. Oberkersch, Giovanni Tosi, Alberto Biscontin, and **Massimo M. Santoro**. THE CLOCK TICKS IN THE ENDOTHELIUM: THE CIRCADIAN CLOCK PROTEIN BMAL1 PROMOTES ANGIOGENESIS. *Cardiovascular Research*, 2023, 119(10):1952-1968. doi:10.1093/cvr/cvad057. IF=13.08.
8. Cristina A. Recatalá, **Massimo M Santoro**. THE GLUCOSE-TO-ACETATE METABOLIC FLUX THAT DRIVES ENDOTHELIAL-TO-MESENCHYMAL TRANSITION VIA TGF-B SIGNALING. *Cell Metabolism.* 35(7):1093-1095, 2023. doi:10.1016/j.cmet.2023.06.006. IF=31.03.
9. Cristina Arce Recatalá, Mattia Albiero and **Massimo M. Santoro**. EVALUATION OF POST-NATAL ANGIOGENESIS IN A MOUSE HIND LIMB ISCHEMIA MODEL. *STARS Protocols*, 4(2):102232. doi:10.1016/j.xpro.2023.102232. IF=1.35.
10. Brian G. Coon, Sushma Timalisina, Matteo Astone, Minhwan Chung, Jennifer Fang, Jinah Han, Karen Hirschi, Louis-Eric Trudeau, **Massimo M. Santoro**, Martin A. Schwartz. SHEAR STRESS INDUCTION OF KLF2 THROUGH MITOCHONDRIAL REMODELING. *Journal of Cell Biology*, 2022, 221(7):e202109144. doi:10.1083/jcb.202109144. IF= 8.007
11. Roxana E. Oberkersch and **Massimo M. Santoro** YAP/TAZ-TEAD LINK ANGIOGENESIS TO NUTRIENTS. *Nat Metab.* 2022 Jun;4(6):645-646. doi:10.1038/s42255-022-00579-9. IF=19.865

12. Jacopo Lidonnici, **Massimo M. Santoro** Roxana E. Oberkersch. CANCER-INDUCED METABOLIC REWIRING OF TUMOR ENDOTHELIAL CELLS. *Cancers* 2022 14(11). doi:10.3390/cancers14112735. IF=6.568
13. Roxana E. Oberkersch, Giovanna Pontarin, Matteo Astone, Emiliano Panieri, Marianna Spizzotin, Liasian Arslanbaeva, Giovanni Tosi, Emiliano Panieri, Sara Ricciardi, Maria Francesca Allega, Alessia Brossa, Paolo Grumati, Benedetta Bussolati, Stefano Biffo, Saverio Tardito, and **Massimo M. Santoro**. ASPARTATE METABOLISM IN ENDOTHELIAL CELLS ACTIVATES THE mTORC1 PATHWAY TO INITIATE TRANSLATION DURING ANGIOGENESIS. *Developmental Cell*, 1241-1256.e8. doi:10.1016/j.devcel.2022.04.018. 2022. IF=13.417
14. Liaisan Arslanbaeva, Giovanni Tosi, Marco Ravazzolo, Manuela Simonato, Francesco Tucci, Salvatore Pece, Paola Cogo, and **Massimo M. Santoro**. UBIAD1 AND COQ10 PROTECTS MELANOMA CELLS FROM LIPID PEROXIDATION-MEDIATED CELL DEATH. *Redox Biology* 51, doi.org/10.1016/j.redox.2022.102272, 2022. IF=10.787
15. Nicola Facchinello, Matteo Astone, Marianna Spizzotin, Matteo Audano, Enrica Calura, Mihaela Crisan, Nico Mitro, and **Massimo M. Santoro**. OXIDATIVE PENTOSE PHOSPHATE PATHWAY CONTROLS VASCULAR MURAL CELL COVERAGE BY REGULATING EXTRACELLULAR MATRIX COMPOSITION. *Nature Metabolism*, 2022, 4(1):123-140. doi.org/10.1038/s42255-021-00514-4, 2022. IF=19.865
16. Chiara Camillo[§], Nicola Facchinello[§], Dafne Gays, Noemi Gioelli, Matteo Astone, Roxana Oberkersch, Chiara Sandri, Giulia Villari, Luca Tamagnone, Donatella Valdembri, **Massimo M. Santoro**^{*} and Guido Serini[†]. LATROPHILIN 2 CONTROLS VASCULAR MORPHOGENESIS AND FUNCTION BY INHIBITING ENDOTHELIAL CELL ADHESION AND YAP/TAZ MECHANOSIGNALING. *Journal Cell Biology*, 220; doi:10.1083/jcb.202006033, 2021. [§] co-first author, ^{*}co-senior and corresponding authors. IF= 8.007
17. Michael Donadon and **Massimo M. Santoro**. ORIGIN AND MECHANISMS OF SMOOTH MUSCLE CELLS DEVELOPMENT IN VERTEBRATES. *Development*, 148: dev197384 doi:10.1242/dev.197384, 2021. IF=6.872
18. Matteo Astone and **Massimo M. Santoro**. TIME TO FIGHT: TARGETING THE CIRCADIAN CLOCK MOLECULAR MACHINERY IN CANCER THERAPY. *Drug Discovery Today*, 37,101753, 2021. doi:10.1016/j.drudis.2021.01.023 IF=8.369
19. Nicola Facchinello, Claudio Laquatra, Lisa Locatello, Giorgia Beffagna, Raquel Brañas Casas, Chiara Fornetto, Alberto Dinarello, Laura Martorano, Andrea Vettori, Giovanni Risato, Rudy Celeghin, Giacomo Meneghetti, **Massimo Santoro**, Agnes Delahodde, Francesco Vanzi, Andrea Rasola, Luisa Dalla Valle, Maria Berica Rasotto, Tiziana Lodi, Enrico Baruffini, Francesco Argenton, and Natascia Tiso. EFFICIENT CLOFILIUM TOSYLATE-MEDIATED RESCUE OF POLG-RELATED DISEASE PHENOTYPES IN ZEBRAFISH. *Cell Death & Disease*, 12, 100, 2021. doi:10.1038/s41419-020-03359-z IF=9.685
20. Liasian Arslanbaeva and **Massimo M. Santoro**. ADAPTIVE REDOX HOMEOSTASIS IN CUTANEOUS MELANOMA. *Redox Biology*, 37, 2020. doi.org/10.1016/j.redox.2020.101753 IF=10.787
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23. Roxana E. Oberkersch and **Massimo M. Santoro**. ROLE OF AMINO ACID METABOLISM IN ANGIOGENESIS. *Vascular Pharmacology*, 17-23, 2019. doi: 10.1016/j.vph.2018.11.001 IF=5.738
24. Thomas Dickmeis, Yi Feng, Maria Caterina Mione, Nikolay Ninov, **Massimo Mattia Santoro**, Herman P Spaink, Philipp Gut. NANO-SAMPLING AND REPORTER TOOLS TO STUDY METABOLIC REGULATION IN ZEBRAFISH. *Frontiers Cell and Developmental Biology*, 7, 1-9. 2019. doi: org./10.3389/fcel.2019.00015 IF=6.081
25. Dougall Norris and **Massimo M. Santoro**. BEFORE THE PUMP. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 38, 2763–2764, 2018. doi: org/10.1161/ATVBAHA.118.31189 IF=10.51
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27. Rupel, K., Zupin, L., Colliva, A., Kamada, A., Poropat, A., Ottaviani, G., Margherita Gobbo, Lidia Fanfoni, Rossella Gratton, **Massimo M. Santoro**, Roberto Di Lenarda, Matteo Biasotto, and Serena Zacchigna. PHOTOBIMODULATION AT MULTIPLE WAVELENGTHS DIFFERENTIALLY MODULATES OXIDATIVE STRESS IN VITRO AND IN VIVO. *Oxidative Medicine and Cellular Longevity*, 2, 1–11, 2018. doi: org/10.1155/20148/6510159 IF=7.31
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29. Sanjay Sinha and **Massimo M. Santoro**. NEW MODELS TO STUDY VASCULAR MURAL CELL EMBRYONIC ORIGIN: IMPLICATIONS IN VASCULAR DISEASES. *Cardiovascular Res.* 114(4):481-491, 2018. doi: 10.1093./cvy005 IF=10.71
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31. **Massimo M. Santoro**. FASHIONING BLOOD VESSELS BY ROS SIGNALLING AND METABOLISM. *Seminars in Cell & Developmental Biology*, 80, 35-42, 2018. doi:org/10.1016/j.semcdb.2017.08.002 IF=7.5
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51. Vera Mugoni, Claudio Medana and **Massimo M. Santoro**. ¹³C-ISOTOPE BASED PROTOCOL FOR PRENYL LIPID METABOLIC ANALYSIS IN ZEBRAFISH TISSUES. *Nature Protocols*, 8, 2337-2347, 2013. Doi: org/10.1038/nprot.2013.139 IF=17.021
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