

### List of publications

#### Peer-reviewed publications (in reverse chronological order).

1. 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, in revision.
2. Liaisan Arslanbaeva, Giovanni Tosi, Marco Ravazzolo, Manuela Simonato, Paola Cogo, and **Massimo M. Santoro**. UBIAD1 AND COQ10 PROTECTS MELANOMA CELLS FROM LIPID PEROXIDATION-MEDIATED CELL DEATH. *Redox Biology*, 2022, in revision.
3. Roxana E. Oberkersch, Giovanna Pontarin, Matteo Astone, Emiliano Panieri, Marianna Spizzotin, Liasian Arslanbaeva, Giovanni Tosi, Sara Ricciardi, Maria Francesca Allega, Stefano Biffo, Paolo Grumati, Saverio Tardito, and **Massimo M. Santoro**. GLUTAMINOLYSIS AND ASPARTATE TRANSAMINASE CONTROL VEGFR2 TRANSLATION DURING ANGIOGENESIS. *Developmental Cell*, 2022 in revision.
4. Nicola Facchinello, Matteo Astone, Marianna Spizzotin, Matteo Audano, Enrica Calura, Mihaela Crisan, Nico Mitro, and **Massimo M. Santoro**. HEMODYNAMIC FORCES CONTROL VASCULAR MYOGENESIS VIA OXIDATIVE PPP-DEPENDENT CONTROL OF ELASTIN. *Nature Metabolism*, 2022, in press.
5. 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. *Communication Biology*, 2021 in revision.
6. Chiara Camillo<sup>§</sup>, Nicola Facchinello<sup>§</sup>, Dafne Gays, Noemi Gioelli, Matteo Astone, Roxana Oberkersch, Chiara Sandri, Giulia Villari, Luca Tamagnone, Donatella Valdembri, **Massimo M. Santoro**<sup>\*</sup> and Guido Serini<sup>\*</sup>. LATROPHILIN 2 CONTROLS VASCULAR MORPHOGENESIS AND FUNCTION BY INHIBITING ENDOTHELIAL CELL ADHESION AND YAP/TAZ MECHANOSIGNALING. *Journal Cell Biology*, 2021 220(11):e202006033. doi: 10.1083/jcb.202006033.  
<sup>§</sup> co-first author, <sup>\*</sup>co-senior and corresponding authors.
7. Michael Donadon and **Massimo M. Santoro**. ORIGIN AND MECHANISMS OF SMOOTH MUSCLE CELLS DEVELOPMENT IN VERTEBRATES. *Development*, 148: dev197384 doi: 10.1242/dev.197384
8. Matteo Astone and **Massimo M. Santoro**. TIME TO FIGHT: TARGETING THE CIRCADIAN CLOCK MOLECULAR MACHINERY IN CANCER THERAPY. *Drug Discovery Today*, 37,101753, 2021.
9. 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.
10. Liasian Arslanbaeva and **Massimo M. Santoro**. ADAPTIVE REDOX HOMEOSTASIS IN CUTANEOUS MELANOMA. *Redox Biology*, 37, 2020.

11. **Santoro, M. Massimo.** THE ANTIOXIDANT ROLE OF NON-MITOCHONDRIAL COQ10: MYSTERY SOLVED! *Cell Metabolism*, 31(1), 13–15. 2020.
12. **Santoro, M. Massimo,** Beltrame M., Panáková D., Siekmann A. F. Tiso, N., Venero Galanternik M., Hyun Min Jung and Brant M. Weinstein. ADVANTAGES AND CHALLENGES OF CARDIOVASCULAR AND LYMPHATIC STUDIES IN ZEBRAFISH RESEARCH. *Frontiers in Cell and Developmental Biology*, 7, 946, 2019.
13. Roxana E. Oberkersch and **Massimo M. Santoro.** ROLE OF AMINO ACID METABOLISM IN ANGIOGENESIS. *Vascular Pharmacology*, 17-23, 2019.
14. 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.
15. Dougall Norris and **Massimo M. Santoro.** BEFORE THE PUMP. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 38, 2763–2764, 2018.
16. Oliver A. Stone, Mohamed El-Brolosy, Kerstin Wilhelm, Xiaojing Liu, Ana M. Romão, Elisabetta Grillo, Jason K.H. Lai, Stefan Günther, Sylvia Jeratsch, Carsten Kuenne, I-Ching Lee, Thomas Braun, **Massimo M. Santoro**, Jason W. Locasale, Michael Potente and Didier Y.R. Stainier. LOSS OF PYRUVATE KINASE M2 LIMITS GROWTH AND TRIGGERS INNATE IMMUNE SIGNALING IN ENDOTHELIAL CELLS. *Nature Communications* 9, 4077-4087, 2018.
17. 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.
18. Zulato E., Ciccarese F., Agnusdei V., Pinazza M., Nardo G., Iorio E., Curtarello M., Silic-Benussi M., Rossi E, Venturoli C., Panieri E., **Santoro M. Massimo**, Quintieri L., Ciminale V, Indraccolo S. LKB1 LOSS IS ASSOCIATED WITH GLUTATHIONE DEFICIENCY UNDER OXIDATIVE STRESS AND SENSITIVITY OF CANCER CELLS TO CYTOTOXIC DRUGS AND  $\gamma$ -IRRADIATION. *Biochem Pharmacology*, 156, 479-490, 2018.
19. 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.
20. Jacoba J. Louw, Ricardo Nunes Bastos, Xiaowen Chen, Céline Verdood, Anniek Corveleyn, Yaojuan Jia, Jeroen Breckpot, Marc Gewillig, Hilde Peeters, **Massimo M. Santoro**, Francis Barr, Koenraad Devriendt: COMPOUND HETEROZYGOUS LOSS-OF-FUNCTION MUTATIONS IN *KIF20A* ARE ASSOCIATED WITH A NOVEL LETHAL CONGENITALCARDIOMYOPATHY IN TWO SIBLINGS. *PLOS Genetics*, 22;14 (1):e1007138, 2018.
21. **Massimo M. Santoro.** FASHIONING BLOOD VESSELS BY ROS SIGNALLING AND METABOLISM. *Seminars in Cell & Developmental Biology*, 80, 35-42, 2018.
22. Emiliano Panieri, Carlo Milia and **Massimo M. Santoro.** IN VIVO REAL-TIME MONITORING AND IMAGING OF SUBCELLULAR H<sub>2</sub>O<sub>2</sub> AND GLUTATHIONE REDOX POTENTIAL IN CARDIOVASCULAR TISSUES. *Free Radical Biology and Medicine*, 109, 189-200, 2017.

23. Emiliano Panieri and **Massimo M. Santoro**. DATA ON METABOLIC-DEPENDENT ANTIOXIDANT RESPONSE IN THE CARDIOVASCULAR TISSUES OF LIVING ZEBRAFISH UNDER STRESS CONDITION. *Data in Brief*, 12, 427-432, 2017.
24. Dafne Gays, Christopher Hess, Annalisa Camporeale, Ugo Ala, Paolo Provero, Christian Mosimann and **Massimo M. Santoro**. AN EXCLUSIVE CELLULAR AND MOLECULAR NETWORK GOVERNS INTESTINAL SMOOTH MUSCLE CELLS DIFFERENTIATION IN VERTEBRATES. *Development*, 144, 1-15, 2017.
25. Xiaowen Chen, Dafne Gays, Carlo Millia and **Massimo M. Santoro**. CILIA CONTROL VASCULAR MURAL CELL RECRUITMENT IN VERTEBRATES. *Cell Reports*, 18, 1-15, 2017.
26. Saravana K. Ramasamy, Anjali P. Kusumbe, Maria Schiller, Dagmar Zeuschner, M. Gabriele Bixel, Carlo Milia, Jaba Gamrekelashvili, Anne Limbourg, Alexander Medvinsky, **Massimo M. Santoro**, Florian P. Limbourg, and Ralf H. Adams. BLOOD FLOW CONTROLS BONE VASCULAR FUNCTION AND OSTEOGENESIS. *Nature Communications*. 7, 13601, 2016.
27. Giulia Mana, Fabiana Clapero, Emiliano Panieri, Valentina Panero, Hui-Yuan Tseng, Federico Saltarin, Elena Astanina, Mark Morgan, Martin J. Humphries, **Massimo M. Santoro**, Guido Serini, and Donatella Valdembri. PPFIA1 DRIVES ACTIVE  $\alpha 5\beta 1$  INTEGRIN FIBRILLOGENESIS AND VASCULAR MORPHOGENESIS. *Nature Communications*. 7, 13546, 2016.
28. Xiaowen Chen, Dafne Gays, and **Massimo M. Santoro**. TRANSGENIC ZEBRAFISH. *Methods in Molecular Biology In Mitochondrial* 1464, pp. 107–114, 2016.
29. Raj Sewduth and **Massimo M. Santoro**. “DECODING” ANGIOGENESIS: NEW FACETS CONTROLLING ENDOTHELIAL CELL BEHAVIOR. *Frontiers in Physiology*. 306, 1-7, 2016.
30. Emiliano Panieri and **Massimo M. Santoro**. ROS HOMEOSTASIS AND METABOLISM: A DANGEROUS LIASON IN CANCER CELLS. *Cell Death & Disease*. e2253, 2016.
31. Martano Chiara, Mugoni Vera, Dal Bello Federica, **Santoro M. Massimo** and Medana, Claudio. RAPID HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-HIGH RESOLUTION MASS SPECTROMETRY METHODOLOGY FOR MULTIPLE PRENOL LIPIDS ANALYSIS IN ZEBRAFISH EMBRYOS. *Journal of Chromatography A*, 1412, 59–66, 2015.
32. Emiliano Panieri and **Massimo M. Santoro**. REDOX SIGNALING IN ENDOTHELIAL CELLS. *Cell Mol Life Sci May*, 72: 3281-303, 2015.
33. Vitor Fortuna, Luc Pardanaud, Isabelle Brunet, Roxana Ola, Emma Ristori, **Massimo M. Santoro**, Stefania Nicoli, Anne Eichmann. VASCULAR MURAL CELLS INSTRUCT NORADRENERGIC DIFFERENTIATION OF EMBRYONIC SYMPATHETIC NEURONS. *Cell Reports*, 11: 2211-1247, 2015.
34. Giulia Garaffo, Daniele Conte, Paolo Provero, Daniela Tomaiuolo, Zheng Luo, Patrizia Pinciroli, Clelia Peano, Ilaria Ilaria D’Atri, Yorick Gitton, Talya Etzion, Yoav Gothif, Dafne Gays, **Massimo M. Santoro**, Giorgio Roberto Merlo. THE DLX5 AND FOXG1 TRANSCRIPTION FACTORS, LINKED VIA MIRNA-9 AND -200, ARE REQUIRED FOR THE DEVELOPMENT OF THE OLFATORY AND GNRH SYSTEM. *Mol Cell Neurosci*. 68:103-119, 2015.
35. Sonia Mercurio, Sara Petrillo, Deborah Chiabrando, Zuni Irma Bassi, Dafne Gays, Annalisa Camporeale, Andrei Vacaru, Barbara Miniscalco, Giulio Valperga, Lorenzo Silengo, Fiorella Altruda<sup>1</sup>, Margaret H Baron, **Massimo M. Santoro** and Emanuela Tolosano. HEME EXPORTER FLVCR1 REGULATES EXPANSION AND DIFFERENTIATION OF COMMITTED ERYTHROID PROGENITORS BY CONTROLLING INTRACELLULAR HEME ACCUMULATION. *Hematologica*, 100(6): 720-9, 2015.

36. Elisa De Luca, Gian Maria Zaccaria, Maura Hadhoud, Giovanna Rizzo, Roberto Ponzini, Umberto Morbiducci and **Massimo M. Santoro**. ZEBRABEAT: A FLEXIBLE PLATFORM FOR THE ANALYSIS OF THE CARDIAC RATE IN ZEBRAFISH EMBRYOS. *Scientific Reports*. 4, 4898, 2014.
37. **Massimo M. Santoro**. ZEBRAFISH AS A MODEL TO EXPLORING CELLULAR METABOLISM AND METABOLIC DISEASES. *Trends in Endocrinology and Metabolism*. 10, 546-54. 2014.
38. **Massimo M. Santoro**. ANTI\_ANGIOGENIC CANCER DRUGS USING THE ZEBRAFISH MODEL. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 34, 1846, 2014.
39. Giulia Garaffo, Paolo Provero, Ivan Molineris, Patrizia Pinciroli, Clelia Peano, Cristina Battaglia, Daniela Tomaiuolo, Talya Etzion, Yoav Gothif, **Massimo M. Santoro**, and Giorgio R. Merlo. PROFILING, BIOINFORMATIC, AND FUNCTIONAL DATA ON THE DEVELOPING OLFACTORY/GNRH SYSTEM REVEAL CELLULAR AND MOLECULAR PATHWAYS ESSENTIAL FOR THIS PROCESS AND POTENTIALLY RELEVANT FOR THE KALLMANN SYNDROME. *Frontiers in Endocrinology*, 4, 203. 2014.
40. Thomas R. Whitesell, Regan M. Kennedy, Alyson D. Carter, Evvi-Lynn Rollins, Sonja Georgijevic, **Massimo M. Santoro** and Sarah J. Childs. A SMOOTH MUSCLE ACTIN (ACTA2/ASMA) ZEBRAFISH TRANSGENIC LINE MARKING VASCULAR MURAL CELLS AND VISCERAL SMOOTH MUSCLE CELLS. *PLoS One* 9(3), e90590. 2014.
41. Vera Mugoni, Annalisa Camporeale and **Massimo M. Santoro**. EXPLORING OXIDATIVE STRESS IN ZEBRAFISH EMBRYOS. *JoVe* 89, 2014.
42. Vera Mugoni, Claudio Medana and **Massimo M. Santoro**. <sup>13</sup>C-ISOTOPE BASED PROTOCOL FOR PRENYL LIPID METABOLIC ANALYSIS IN ZEBRAFISH TISSUES. *Nature Protocols*, 8, 2337-2347, 2013.
43. Carlo Follo, Matteo Ozzano, Claudia Montalenti, **Massimo M. Santoro** and Ciro Isidoro. KNOCK-DOWN OF CATHEPSIN D IN ZEBRAFISH FERTILIZED EGGS DETERMINES CONGENITAL MYOPATHY. *BioScience Report*, 33, 371-378, 2013.
44. **Massimo M. Santoro** and Stefania Nicoli. miRNAs IN ENDOTHELIAL CELL SIGNALING: The endomiRNAs. *Experimental Cell Research*, 319, 1324-1330, 2013.
45. Vera Mugoni, Ruben Postel, Valeria Catanzaro, Elisa De Luca, Giuseppe Digilio, Emilia Turco, Lorenzo Silengo, Michael P. Murphy, Claudio Medana, Didier Y. Stainier, Jeroen Bakkers and **Massimo M. Santoro**. UBIAD1 IS AN ANTIOXIDANT ENZYME THAT REGULATES eNOS ACTIVITY BY CoQ10 SYNTHESIS. *Cell* 152, 504–518, 2013.
46. Dafne Gays and **Massimo M. Santoro**. THE AD-MIR-ABLE ADVANCES IN CARDIOVASCULAR BIOLOGY THROUGH THE ZEBRAFISH MODEL SYSTEM. *Cell Mol Life Sci* 70, 2489-2503, 2013.
47. **Massimo M. Santoro**. "FISHING" FOR ENDOTHELIAL MICRORNA FUNCTIONS AND DYSFUNCTION. *Vascular Pharmacology*, 5, 60-68, 2011.
48. Juanita Lopez, Sidonie Wicky John, Tencho Tenev, Gilles J. P. Rautureau, Mark G. Hinds, Floriana Francalanci, Rebecca Wilson, Meike Broemer, **Massimo M. Santoro**, Catherine L. Day and Pascal Meier. CARD-MEDIATED AUTOINHIBITION OF CIAP1'S E3 LIGASE ACTIVITY SUPPRESSES CELL PROLIFERATION AND MIGRATION. *Molecular Cell*, 42: 569–583, 2011.

49. Carlo Follo, Matteo Ozzano, Vera Mugoni, Roberta Castino, **Massimo M. Santoro** and Ciro Isidoro. KNOCK-DOWN OF CATHEPSIN D AFFECTS THE RETINAL PIGMENT EPITHELIUM, IMPAIRS SWIM-BLADDER ONTOGENESIS AND CAUSES TO PRAECOX DEATH IN ZEBRAFISH. *PLOS One*, 6(7):e21908, 2011.
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51. **Massimo M. Santoro**, Gabriella Pesce and Didier Y Stainier. CHARACTERIZATION OF VASCULAR MURAL CELLS DURING ZEBRAFISH DEVELOPMENT. *Mechanisms of Development*, 126: 638-49, 2009. *Highlighted in Faculty of 1000*.
52. Jason E. Fish, **Massimo M. Santoro**, Sangho Yu, Didier Stainier and Deepak Srivastava. MIR-126, AN ENDOTHELIAL-SPECIFIC MICRORNA, REGULATES ANGIOGENESIS AND VASCULAR INTEGRITY BY TARGETING SPRED-1. *Developmental Cell*, 15: 272-284, 2008
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55. Federica Chianale, Santina Cutrupi, Elena Rainero, Gianluca Baldanzi, Paolo E Porporato, Sara Traini, Nicoletta Filigheddu, Viola Gnocchi, **Massimo M. Santoro**, Ornella Parolini, Wim van Blitterswijk, Fabiola Sinigaglia and Andrea Graziani. DIACYLGLYCEROL KINASE- $\alpha$  MEDIATES HGF-INDUCED EPITHELIAL CELL SCATTER BY REGULATING RAC ACTIVATION AND MEMBRANE RUFFLING. *Molecular Biology of the Cell* 18, 4859 – 4871, 2007.
56. Suk-Won Jin, Wiebke Herzog, **Massimo M. Santoro**, Tracy S Mitchell, Julie Frantsve, Benno Jungblut, Dimitris Beis, Ian C Scott, Leonard A D'Amico, Elke A Ober, Hether Verkade, Holly A Field, Neil C Chi, Anne Wehman, Hervig Baier, Didier Y. Stainier. A TRANSGENE-ASSISTED GENETIC SCREEN IDENTIFIES ESSENTIAL REGULATORS OF VASCULAR DEVELOPMENT IN VERTEBRATE EMBRYOS. *Developmental Biology*, 307:29 – 42, 2007.
57. Serena Germano, Danilo Barberis, **Massimo M. Santoro**, Lorenza Penengo, Ami Citri, Yosef Yarden and Giovanni Gaudino. GELDANAMYCIN TRIGGERS A NOVEL RON DEGRADATIVE PATHWAY HAMPERING ONCOGENIC SIGNALLING. *Journal of Biological Chemistry*, 281 (31) 21710-9, 2006.
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61. Claudia Camerino, **Massimo M. Santoro**, G. Mori, Pier Carlo Marchisio, Giovanni Gaudino, Antonia Zallone. C MACROPHAGE STIMULATING PROTEIN (MSP) REGULATE OSTEOBLAST DIFFERENTIATION AND ACTIVITY. *Bone* 30(3):34S-34S, 2002.
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63. **Massimo M. Santoro**, Lorenza Penengo, Sara Orecchia, Michele Cilli and Giovanni Gaudino. THE RON ONCOGENIC ACTIVITY INDUCED BY THE MEN2B-LIKE SUBSTITUTION OVERCOMES THE REQUIREMENT FOR THE MULTIFUNCTIONAL DOCKING SITE. *Oncogene*, 19: 5208-5211, 2000.
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### Book Chapters

1. Dafne Gays, Vera Mugoni and **Massimo M. Santoro**. TUMOR ANGIOGENESIS: "FISHING" FOR DRUG SCREENING MODELS. Book title: "Angiogenesis and vascularisation - cellular and molecular mechanisms in health and diseases" Edited by Dr. Joseph Dulak. Springer series, 2014.
2. Vera Mugoni and **Massimo M. Santoro**. MANIPULATING REDOX SIGNALING TO BLOCK TUMOR ANGIOGENESIS. Book title: **Research Directions in Tumor Angiogenesis** Dr. Jianyuan Chai (Ed.) ISBN 978-953-51-0963-1. InTech Open, 2013.
3. **Massimo M. Santoro**. MODELING TUMOR ANGIOGENESIS IN ZEBRAFISH. Book Title: **Tumor Angiogenesis**, Sophia Ran (Ed.), pp167-180. ISBN: 978-953-51-0009-6, InTech Open. 2012.
4. **Massimo M. Santoro**. NEW FINDINGS IN GROWTH FACTOR RECEPTORS AND INTEGRINS CROSS-TALK. "Recent Research Developments in Molecular and Cellular Biology", ISBN 81-308-0131-0, Vol.3, Part-II, Page 661-675, 2003.

5. **Massimo M. Santoro** and Giovanni Gaudino. THE CONSTITUTIVE ACTIVATION OF MET, RON, SEA GENES INDUCES DIFFERENT BIOLOGICAL RESPONSES. In "Interacting protein domains" NATO-ASI Series, Subseries H "Cell Biology", ISBN 3-540-63124-0, vol. 102 Ed. by L. Heilmeyer, pp 207-212, Springer-Verlag Heidelberg, 1997.