# Francesco Lodola

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4074436/publications.pdf

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|---|---|---|---|
| 47 papers | 1,929 citations | 201385 27 h-index | 264894 42 g-index |
| 51 all docs | 51 docs citations | 51 times ranked | 2318 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Vascular Endothelial Growth Factor Stimulates Endothelial Colony Forming Cells Proliferation and Tubulogenesis by Inducing Oscillations in Intracellular Ca2+ Concentration. Stem Cells, 2011, 29, 1898-1907. | 1.4 | 140 |
| 2 | Stim and Orai proteins in neuronal Ca2+ signaling and excitability. Frontiers in Cellular Neuroscience, 2015, 9, 153. | 1.8 | 135 |
| 3 | Store-Operated Ca2+ Entry Is Remodelled and Controls In Vitro Angiogenesis in Endothelial Progenitor Cells Isolated from Tumoral Patients. PLoS ONE, 2012, 7, e42541. | 1.1 | 121 |
| 4 | Store-Dependent Ca2+ Entry in Endothelial Progenitor Cells As a Perspective Tool to Enhance Cell-Based Therapy and Adverse Tumour Vascularization. Current Medicinal Chemistry, 2012, 19, 5802-5818. | 1.2 | 108 |
| 5 | CaMKII inhibition rectifies arrhythmic phenotype in a patient-specific model of catecholaminergic polymorphic ventricular tachycardia. Cell Death and Disease, 2013, 4, e843-e843. | 2.7 | 105 |
| 6 | Single Delivery of an Adeno-Associated Viral Construct to Transfer the CASQ2 Gene to Knock-In Mice Affected by Catecholaminergic Polymorphic Ventricular Tachycardia Is Able to Cure the Disease From Birth to Advanced Age. Circulation, 2014, 129, 2673-2681. | 1.6 | 88 |
| 7 | Canonical Transient Receptor Potential 3 Channel Triggers Vascular Endothelial Growth Factor-Induced Intracellular Ca<sup>2+</sup>Oscillations in Endothelial Progenitor Cells Isolated from Umbilical Cord Blood. Stem Cells and Development, 2013, 22, 2561-2580. | 1.1 | 74 |
| 8 | Neuronal firing modulation by a membrane-targeted photoswitch. Nature Nanotechnology, 2020, 15, 296-306. | 15.6 | 71 |
| 9 | The evolution of artificial light actuators in living systems: from planar to nanostructured interfaces. Chemical Society Reviews, 2018, 47, 4757-4780. | 18.7 | 70 |
| 10 | Allele-Specific Silencing of Mutant mRNA Rescues Ultrastructural and Arrhythmic Phenotype in Mice Carriers of the R4496C Mutation in the Ryanodine Receptor Gene ( RYR2 ). Circulation Research, 2017, 121, 525-536. | 2.0 | 64 |
| 11 | Ca<sup>2+</sup> Signalling in Endothelial Progenitor Cells: A Novel Means to Improve Cell-Based Therapy and Impair Tumour Vascularisation. Current Vascular Pharmacology, 2014, 12, 87-105. | 0.8 | 61 |
| 12 | Conjugated polymers optically regulate the fate of endothelial colony-forming cells. Science Advances, 2019, 5, eaav4620. | 4.7 | 61 |
| 13 | Enhanced Expression of Stim, Orai, and TRPC Transcripts and Proteins in Endothelial Progenitor Cells Isolated from Patients with Primary Myelofibrosis. PLoS ONE, 2014, 9, e91099. | 1.1 | 60 |
| 14 | Decreased RyR2 refractoriness determines myocardial synchronization of aberrant Ca <sup>2+</sup> release in a genetic model of arrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10312-10317. | 3.3 | 53 |
| 15 | Arachidonic acid-evoked Ca2+ signals promote nitric oxide release and proliferation in human endothelial colony forming cells. Vascular Pharmacology, 2016, 87, 159-171. | 1.0 | 51 |
| 16 | Adeno-associated virus-mediated CASQ2 delivery rescues phenotypic alterations in a patient-specific model of recessive catecholaminergic polymorphic ventricular tachycardia. Cell Death and Disease, 2016, 7, e2393-e2393. | 2.7 | 51 |
| 17 | Dysregulation of VEGF-induced proangiogenic Ca2+ oscillations in primary myelofibrosis-derived endothelial colony-forming cells. Experimental Hematology, 2015, 43, 1019-1030.e3. | 0.2 | 46 |
| 18 | A Functional Transient Receptor Potential Vanilloid 4 (TRPV4) Channel Is Expressed in Human Endothelial Progenitor Cells. Journal of Cellular Physiology, 2015, 230, 95-104. | 2.0 | 45 |

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|---|---|---|---|
| 19 | Abnormal Propagation of Calcium Waves and Ultrastructural Remodeling in Recessive Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation Research, 2013, 113, 142-152. | 2.0 | 44 |
| 20 | Hematopoietic Progenitor and Stem Cells Circulate by Surfing on Intracellular Ca2+ Waves: A Novel Target for Cell-based Therapy and Anti-cancer Treatment?. Current Signal Transduction Therapy, 2012, 7, 161-176. | 0.3 | 41 |
| 21 | VEGF-induced intracellular Ca2+ oscillations are down-regulated and do not stimulate angiogenesis in breast cancer-derived endothelial colony forming cells. Oncotarget, 2017, 8, 95223-95246. | 0.8 | 41 |
| 22 | Stromal Cell-Derived Factor-1Î± Promotes Endothelial Colony-Forming Cell Migration Through the Ca<sup>2+</sup>-Dependent Activation of the Extracellular Signal-Regulated Kinase 1/2 and Phosphoinositide 3-Kinase/AKT Pathways. Stem Cells and Development, 2018, 27, 23-34. | 1.1 | 41 |
| 23 | Conjugated polymers mediate effective activation of the Mammalian Ion Channel Transient Receptor Potential Vanilloid 1. Scientific Reports, 2017, 7, 8477. | 1.6 | 39 |
| 24 | Endothelial TRPV1 as an Emerging Molecular Target to Promote Therapeutic Angiogenesis. Cells, 2020, 9, 1341. | 1.8 | 36 |
| 25 | High-Aspect-Ratio Semiconducting Polymer Pillars for 3D Cell Cultures. ACS Applied Materials & Interfaces, 2019, 11, 28125-28137. | 4.0 | 33 |
| 26 | Calcium as a Key Player in Arrhythmogenic Cardiomyopathy: Adhesion Disorder or Intracellular Alteration?. International Journal of Molecular Sciences, 2019, 20, 3986. | 1.8 | 29 |
| 27 | Membrane Environment Enables Ultrafast Isomerization of Amphiphilic Azobenzene. Advanced Science, 2020, 7, 1903241. | 5.6 | 28 |
| 28 | Micro- and Nanopatterned Silk Substrates for Antifouling Applications. ACS Applied Materials & Interfaces, 2020, 12, 5437-5446. | 4.0 | 27 |
| 29 | Use of Exogenous and Endogenous Photomediators as Efficient ROS Modulation Tools: Results and Perspectives for Therapeutic Purposes. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-14. | 1.9 | 24 |
| 30 | High Aspect Ratio and Light-Sensitive Micropillars Based on a Semiconducting Polymer Optically Regulate Neuronal Growth. ACS Applied Materials & Interfaces, 2021, 13, 23438-23451. | 4.0 | 21 |
| 31 | Optical Pacing of Humanâ€Induced Pluripotent Stem Cellâ€Derived Cardiomyocytes Mediated by a Conjugated Polymer Interface. Advanced Healthcare Materials, 2019, 8, e1900198. | 3.9 | 19 |
| 32 | Conjugated polymers mediate intracellular Ca2+ signals in circulating endothelial colony forming cells through the reactive oxygen species-dependent activation of Transient Receptor Potential Vanilloid 1 (TRPV1). Cell Calcium, 2022, 101, 102502. | 1.1 | 19 |
| 33 | Characterization of the PLN p.Arg14del Mutation in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. International Journal of Molecular Sciences, 2021, 22, 13500. | 1.8 | 16 |
| 34 | Peptide-Based Targeting of the L-Type Calcium Channel Corrects the Loss-of-Function Phenotype of Two Novel Mutations of the CACNA1 Gene Associated With Brugada Syndrome. Frontiers in Physiology, 2020, 11, 616819. | 1.3 | 11 |
| 35 | Molecular Design of Amphiphilic Plasma Membrane-Targeted Azobenzenes for Nongenetic Optical Stimulation. Frontiers in Materials, 2021, 7, . | 1.2 | 11 |
| 36 | A Polymer Blend Substrate for Skeletal Muscle Cells Alignment and Photostimulation. Advanced Photonics Research, 2021, 2, 2000103. | 1.7 | 10 |

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|---|---|---|---|
| 37 | The physics of plasma membrane photostimulation. APL Materials, 2021, 9, 030901. | 2.2 | 10 |
| 38 | Towards Novel Geneless Approaches for Therapeutic Angiogenesis. Frontiers in Physiology, 2020, 11, 616189. | 1.3 | 8 |
| 39 | Optical excitation of organic semiconductors as a highly selective strategy to induce vascular regeneration and tissue repair. Vascular Pharmacology, 2022, 144, 106998. | 1.0 | 8 |
| 40 | Distinct expression patterns of inwardly rectifying potassium currents in developing cerebellar granule cells of the hemispheres and the vermis. European Journal of Neuroscience, 2016, 43, 1460-1473. | 1.2 | 4 |
| 41 | Modeling Cardiomyopathies in a Dish: State-of-the-Art and Novel Perspectives on hiPSC-Derived Cardiomyocytes Maturation. Biology, 2021, 10, 730. | 1.3 | 2 |
| 42 | 795A novel molecular approach to correct L-type calcium channel dysfunction associated with Brugada syndrome. Europace, 2017, 19, iii142-iii142. | 0.7 | 0 |
| 43 | Membrane Environment Enables Ultrafast Isomerization of Amphiphilic Azobenzene -INVITED. EPJ Web of Conferences, 2020, 238, 07001. | 0.1 | 0 |
| 44 | Conjugated Polymers Optically Regulate the Fate of Endothelial Colony Forming Cells. Biophysical Journal, 2020, 118, 478a. | 0.2 | 0 |
| 45 | Phosphodiesterase 5: A Novel Therapeutic Target in Long QT Syndrome. Circulation Research, 2021, 129, 666-668. | 2.0 | 0 |
| 46 | SERCA2a gain of function in patient-derived R14Del hiPSC-CMs. Journal of General Physiology, 2022, 154, . | 0.9 | 0 |
| 47 | Characterization of the PLN-R14Del mutation in hiPSC-derived cardiomyocytes. Biophysical Journal, 2022, 121, 91a. | 0.2 | 0 |