

# Francesco Lodola

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Conjugated polymers mediate intracellular Ca <sup>2+</sup> signals in circulating endothelial colony forming cells through the reactive oxygen species-dependent activation of Transient Receptor Potential Vanilloid 1 (TRPV1). <i>Cell Calcium</i> , 2022, 101, 102502.	1.1	19
2	SERCA2a gain of function in patient-derived R14Del hiPSC-CMs. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	0
3	Characterization of the PLN-R14Del mutation in hiPSC-derived cardiomyocytes. <i>Biophysical Journal</i> , 2022, 121, 91a.	0.2	0
4	Optical excitation of organic semiconductors as a highly selective strategy to induce vascular regeneration and tissue repair. <i>Vascular Pharmacology</i> , 2022, 144, 106998.	1.0	8
5	A Polymer Blend Substrate for Skeletal Muscle Cells Alignment and Photostimulation. <i>Advanced Photonics Research</i> , 2021, 2, 2000103.	1.7	10
6	Molecular Design of Amphiphilic Plasma Membrane-Targeted Azobenzenes for Nongenetic Optical Stimulation. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	11
7	The physics of plasma membrane photostimulation. <i>APL Materials</i> , 2021, 9, 030901.	2.2	10
8	High Aspect Ratio and Light-Sensitive Micropillars Based on a Semiconducting Polymer Optically Regulate Neuronal Growth. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23438-23451.	4.0	21
9	Modeling Cardiomyopathies in a Dish: State-of-the-Art and Novel Perspectives on hiPSC-Derived Cardiomyocytes Maturation. <i>Biology</i> , 2021, 10, 730.	1.3	2
10	Phosphodiesterase 5: A Novel Therapeutic Target in Long QT Syndrome. <i>Circulation Research</i> , 2021, 129, 666-668.	2.0	0
11	Characterization of the PLN p.Arg14del Mutation in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13500.	1.8	16
12	Membrane Environment Enables Ultrafast Isomerization of Amphiphilic Azobenzene -INVITED. <i>EPJ Web of Conferences</i> , 2020, 238, 07001.	0.1	0
13	Endothelial TRPV1 as an Emerging Molecular Target to Promote Therapeutic Angiogenesis. <i>Cells</i> , 2020, 9, 1341.	1.8	36
14	Membrane Environment Enables Ultrafast Isomerization of Amphiphilic Azobenzene. <i>Advanced Science</i> , 2020, 7, 1903241.	5.6	28
15	Conjugated Polymers Optically Regulate the Fate of Endothelial Colony Forming Cells. <i>Biophysical Journal</i> , 2020, 118, 478a.	0.2	0
16	Micro- and Nanopatterned Silk Substrates for Antifouling Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5437-5446.	4.0	27
17	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. <i>Frontiers in Physiology</i> , 2020, 11, 616819.	1.3	11
18	Towards Novel Geneless Approaches for Therapeutic Angiogenesis. <i>Frontiers in Physiology</i> , 2020, 11, 616189.	1.3	8

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19	Neuronal firing modulation by a membrane-targeted photoswitch. <i>Nature Nanotechnology</i> , 2020, 15, 296-306.	15.6	71
20	Calcium as a Key Player in Arrhythmogenic Cardiomyopathy: Adhesion Disorder or Intracellular Alteration?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3986.	1.8	29
21	High-Aspect-Ratio Semiconducting Polymer Pillars for 3D Cell Cultures. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28125-28137.	4.0	33
22	Conjugated polymers optically regulate the fate of endothelial colony-forming cells. <i>Science Advances</i> , 2019, 5, eaav4620.	4.7	61
23	Optical Pacing of Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes Mediated by a Conjugated Polymer Interface. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900198.	3.9	19
24	Use of Exogenous and Endogenous Photomediators as Efficient ROS Modulation Tools: Results and Perspectives for Therapeutic Purposes. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-14.	1.9	24
25	The evolution of artificial light actuators in living systems: from planar to nanostructured interfaces. <i>Chemical Society Reviews</i> , 2018, 47, 4757-4780.	18.7	70
26	Stromal Cell-Derived Factor-1 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. <i>Stem Cells and Development</i> , 2018, 27, 23-34.	1.1	41
27	Allele-Specific Silencing of Mutant mRNA Rescues Ultrastructural and Arrhythmic Phenotype in Mice Carriers of the R4496C Mutation in the Ryanodine Receptor Gene ( <i>RyR2</i> ). <i>Circulation Research</i> , 2017, 121, 525-536.	2.0	64
28	Conjugated polymers mediate effective activation of the Mammalian Ion Channel Transient Receptor Potential Vanilloid 1. <i>Scientific Reports</i> , 2017, 7, 8477.	1.6	39
29	795A novel molecular approach to correct L-type calcium channel dysfunction associated with Brugada syndrome. <i>Europace</i> , 2017, 19, iii142-iii142.	0.7	0
30	VEGF-induced intracellular Ca <sup>2+</sup> oscillations are down-regulated and do not stimulate angiogenesis in breast cancer-derived endothelial colony forming cells. <i>Oncotarget</i> , 2017, 8, 95223-95246.	0.8	41
31	Distinct expression patterns of inwardly rectifying potassium currents in developing cerebellar granule cells of the hemispheres and the vermis. <i>European Journal of Neuroscience</i> , 2016, 43, 1460-1473.	1.2	4
32	Arachidonic acid-evoked Ca <sup>2+</sup> signals promote nitric oxide release and proliferation in human endothelial colony forming cells. <i>Vascular Pharmacology</i> , 2016, 87, 159-171.	1.0	51
33	Adeno-associated virus-mediated CASQ2 delivery rescues phenotypic alterations in a patient-specific model of recessive catecholaminergic polymorphic ventricular tachycardia. <i>Cell Death and Disease</i> , 2016, 7, e2393-e2393.	2.7	51
34	Stim and Orai proteins in neuronal Ca <sup>2+</sup> signaling and excitability. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 153.	1.8	135
35	Dysregulation of VEGF-induced proangiogenic Ca <sup>2+</sup> oscillations in primary myelofibrosis-derived endothelial colony-forming cells. <i>Experimental Hematology</i> , 2015, 43, 1019-1030.e3.	0.2	46
36	A Functional Transient Receptor Potential Vanilloid 4 (TRPV4) Channel Is Expressed in Human Endothelial Progenitor Cells. <i>Journal of Cellular Physiology</i> , 2015, 230, 95-104.	2.0	45

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37	Ca <sup>2+</sup> Signalling in Endothelial Progenitor Cells: A Novel Means to Improve Cell-Based Therapy and Impair Tumour Vascularisation. <i>Current Vascular Pharmacology</i> , 2014, 12, 87-105.	0.8	61
38	Single Delivery of an Adeno-Associated Viral Construct to Transfer the <i>CASQ2</i> Gene to Knock-In Mice Affected by Catecholaminergic Polymorphic Ventricular Tachycardia Is Able to Cure the Disease From Birth to Advanced Age. <i>Circulation</i> , 2014, 129, 2673-2681.	1.6	88
39	Enhanced Expression of Stim, Orai, and TRPC Transcripts and Proteins in Endothelial Progenitor Cells Isolated from Patients with Primary Myelofibrosis. <i>PLoS ONE</i> , 2014, 9, e91099.	1.1	60
40	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. <i>Stem Cells and Development</i> , 2013, 22, 2561-2580.	1.1	74
41	Decreased RyR2 refractoriness determines myocardial synchronization of aberrant Ca <sup>2+</sup> release in a genetic model of arrhythmia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10312-10317.	3.3	53
42	Abnormal Propagation of Calcium Waves and Ultrastructural Remodeling in Recessive Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Circulation Research</i> , 2013, 113, 142-152.	2.0	44
43	CaMKII inhibition rectifies arrhythmic phenotype in a patient-specific model of catecholaminergic polymorphic ventricular tachycardia. <i>Cell Death and Disease</i> , 2013, 4, e843-e843.	2.7	105
44	Store-Dependent Ca <sup>2+</sup> Entry in Endothelial Progenitor Cells As a Perspective Tool to Enhance Cell-Based Therapy and Adverse Tumour Vascularization. <i>Current Medicinal Chemistry</i> , 2012, 19, 5802-5818.	1.2	108
45	Hematopoietic Progenitor and Stem Cells Circulate by Surfing on Intracellular Ca <sup>2+</sup> Waves: A Novel Target for Cell-based Therapy and Anti-cancer Treatment?. <i>Current Signal Transduction Therapy</i> , 2012, 7, 161-176.	0.3	41
46	Store-Operated Ca <sup>2+</sup> Entry Is Remodelled and Controls In Vitro Angiogenesis in Endothelial Progenitor Cells Isolated from Tumoral Patients. <i>PLoS ONE</i> , 2012, 7, e42541.	1.1	121
47	Vascular Endothelial Growth Factor Stimulates Endothelial Colony Forming Cells Proliferation and Tubulogenesis by Inducing Oscillations in Intracellular Ca <sup>2+</sup> Concentration. <i>Stem Cells</i> , 2011, 29, 1898-1907.	1.4	140