Hector Barajas-Martinez

List of Publications by Year
in descending order

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85 papers	3,301 citations	186265 28 h-index	155660 55 g-index
93 all docs	93 docs citations	93 times ranked	3059 citing authors

#	Article	IF	Citations
1	Mutations in the cardiac L-type calcium channel associated with inherited J-wave syndromes and sudden cardiac death. Heart Rhythm, 2010, 7, 1872-1882.	0.7	387
2	A Mutation in the Î²3 Subunit of the Cardiac Sodium Channel Associated With Brugada ECG Phenotype. Circulation: Cardiovascular Genetics, 2009, 2, 270-278.	5.1	232
3	Mutations in SCN10A Are Responsible for a Large Fraction of Cases of Brugada Syndrome. Journal of the American College of Cardiology, 2014, 64, 66-79.	2.8	212
4	Identification of a novel loss-of-function calcium channel gene mutation in short QT syndrome (SQTS6). European Heart Journal, 2011, 32, 1077-1088.	2.2	178
5	Molecular genetic and functional association of Brugada and early repolarization syndromes with S422L missense mutation in KCNJ8. Heart Rhythm, 2012, 9, 548-555.	0.7	152
6	Maximum Diastolic Potential of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Depends Critically on IKr. PLoS ONE, 2012, 7, e40288.	2.5	144
7	Mechanisms underlying the development of the electrocardiographic and arrhythmic manifestations of early repolarization syndrome. Journal of Molecular and Cellular Cardiology, 2014, 68, 20-28.	1.9	116
8	ABCC9 is a novel Brugada and early repolarization syndrome susceptibility gene. International Journal of Cardiology, 2014, 171, 431-442.	1.7	113
9	European Heart Rhythm Association (EHRA)/Heart Rhythm Society (HRS)/Asia Pacific Heart Rhythm Society (APHRS)/Latin American Heart Rhythm Society (LAHRS) Expert Consensus Statement on the state of genetic testing for cardiac diseases. Europace, 2022, 24, 1307-1367.	1.7	108
10	A novel rare variant in SCN1Bb linked to Brugada syndrome and SIDS by combined modulation of Na 1.5 and K 4.3 channel currents. Heart Rhythm, 2012, 9, 760-769.	0.7	104
11	Compound Heterozygous Mutations P336L and I1660V in the Human Cardiac Sodium Channel Associated With the Brugada Syndrome. Circulation, 2006, 114, 2026-2033.	1.6	102
12	European Heart Rhythm Association (EHRA)/Heart Rhythm Society (HRS)/Asia Pacific Heart Rhythm Society (APHRS)/Latin American Heart Rhythm Society (LAHRS) Expert Consensus Statement on the State of Genetic Testing for Cardiac Diseases. Heart Rhythm, 2022, 19, e1-e60.	0.7	78
13	Atrial-selective inhibition of sodium-channel current by Wenxin Keli is effective in suppressing atrial fibrillation. Heart Rhythm, 2012, 9, 125-131.	0.7	75
14	Brugada-Like Syndrome in Infancy Presenting With Rapid Ventricular Tachycardia and Intraventricular Conduction Delay. Circulation, 2012, 125, 14-22.	1.6	61
15	The Phenotypic Spectrum of a MutationÂHotspot Responsible for theÂShort QT Syndrome. JACC: Clinical Electrophysiology, 2017, 3, 727-743.	3.2	58
16	Enhancing rare variant interpretation in inherited arrhythmias through quantitative analysis of consortium disease cohorts and population controls. Genetics in Medicine, 2021, 23, 47-58.	2.4	57
17	Mechanisms of atrial-selective block of Na⁺ channels by ranolazine: I. Experimental analysis of the use-dependent block. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1606-H1614.	3.2	56
18	Ranolazine for Congenital Long-QT Syndrome Type III. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	4.8	56

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19	Genome-wide association analyses identify new Brugada syndrome risk loci and highlight a new mechanism of sodium channel regulation in disease susceptibility. Nature Genetics, 2022, 54, 232-239.	21.4	55
20	Effect of Wenxin Keli and quinidine to suppress arrhythmogenesis in an experimental model of Brugada syndrome. Heart Rhythm, 2013, 10, 1054-1062.	0.7	48
21	Hypertension as a sequela in patients of SARS-CoV-2 infection. PLoS ONE, 2021, 16, e0250815.	2.5	47
22	Further Insights in the Most Common SCN5A Mutation Causing Overlapping Phenotype of Long QT Syndrome, Brugada Syndrome, and Conduction Defect. Journal of the American Heart Association, 2016, 5, .	3.7	46
23	About half of the late sodium current in cardiac myocytes from dog ventricle is due to non-cardiac-type Na+ channels. Journal of Molecular and Cellular Cardiology, 2012, 53, 593-598.	1.9	45
24	Ionic and Cellular Mechanisms Underlying the Development of Acquired Brugada Syndrome in Patients Treated with Antidepressants. Journal of Cardiovascular Electrophysiology, 2012, 23, 423-432.	1.7	44
25	A CACNA1C Variant Associated with Reduced Voltage-Dependent Inactivation, Increased CaV1.2 Channel Window Current, and Arrhythmogenesis. PLoS ONE, 2014, 9, e106982.	2.5	43
26	Torsades de pointes following acute myocardial infarction: Evidence for a deadly link with a common genetic variant. Heart Rhythm, 2012, 9, 1104-1112.	0.7	34
27	Ranolazine Effectively Suppresses Atrial Fibrillation in the Setting of Heart Failure. Circulation: Heart Failure, 2014, 7, 627-633.	3.9	34
28	Biophysical and Molecular Characterization of a Novel De Novo KCNJ2 Mutation Associated With Andersen-Tawil Syndrome and Catecholaminergic Polymorphic Ventricular Tachycardia Mimicry. Circulation: Cardiovascular Genetics, 2011, 4, 51-57.	5.1	31
29	Novel trigenic CACNA1C/DES/MYPN mutations in a family of hypertrophic cardiomyopathy with early repolarization and short QT syndrome. Journal of Translational Medicine, 2017, 15, 78.	4.4	27
30	Cellular and ionic mechanisms underlying the effects of cilostazol, milrinone, and isoproterenol to suppress arrhythmogenesis in an experimental model of early repolarization syndrome. Heart Rhythm, 2016, 13, 1326-1334.	0.7	26
31	SCN5AGenetic Polymorphisms Associated With Increased Defibrillator Shocks in Brugada Syndrome. Journal of the American Heart Association, 2017, 6, .	3.7	25
32	Identification of a Novel De Novo Mutation Associated with PRKAG2 Cardiac Syndrome and Early Onset of Heart Failure. PLoS ONE, 2013, 8, e64603.	2.5	23
33	TBX18 gene induces adipose-derived stem cells to differentiate into pacemaker-like cells in the myocardial microenvironment. International Journal of Molecular Medicine, 2016, 38, 1403-1410.	4.0	23
34	Molecular and Functional Characterization of RareCACNA1CVariants in Sudden Unexplained Death in the Young. Congenital Heart Disease, 2016, 11, 683-692.	0.2	23
35	Mechanisms underlying atrial-selective block of sodium channels by Wenxin Keli: Experimental and theoretical analysis. International Journal of Cardiology, 2016, 207, 326-334.	1.7	23
36	Prevalence of spontaneous Brugada ECG pattern recorded at standard intercostal leads: A meta-analysis. International Journal of Cardiology, 2018, 254, 151-156.	1.7	23

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37	Gender Differences in Prognosis and Risk Stratification of Brugada Syndrome: A Pooled Analysis of 4,140 Patients From 24 Clinical Trials. Frontiers in Physiology, 2018, 9, 1127.	2.8	22
38	Distinct Features of Probands With Early Repolarization and Brugada Syndromes Carrying SCN5A Pathogenic Variants. Journal of the American College of Cardiology, 2021, 78, 1603-1617.	2.8	22
39	LQT5 masquerading as LQT2: a dominant negative effect of KCNE1-D85N rare polymorphism on KCNH2 current. Europace, 2011, 13, 1478-1483.	1.7	21
40	Atrial-selective Prolongation of Refractory Period With AVE0118 is Due Principally to Inhibition of Sodium Channel Activity. Journal of Cardiovascular Pharmacology, 2012, 59, 539-546.	1.9	21
41	Electrophysiologic Characteristics and Pharmacologic Response of Human Cardiomyocytes Isolated from a Patient with Hypertrophic Cardiomyopathy. PACE - Pacing and Clinical Electrophysiology, 2013, 36, 1512-1515.	1.2	20
42	Neuronal Na _v 1.8 Channels as a Novel Therapeutic Target of Acute Atrial Fibrillation Prevention. Journal of the American Heart Association, 2016, 5, .	3.7	20
43	Acacetin suppresses the electrocardiographic and arrhythmic manifestations of the J wave syndromes. PLoS ONE, 2020, 15, e0242747.	2.5	20
44	Relation of the Brugada Phenocopy to Hyperkalemia (from the International Registry on Brugada) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	19
45	Identification, clinical manifestation and structural mechanisms of mutations in AMPK associated cardiac glycogen storage disease. EBioMedicine, 2020, 54, 102723.	6.1	19
46	A Brugada syndrome proband with compound heterozygoteSCN5Amutations identified from a Chinese family in Singapore. Europace, 2016, 18, 897-904.	1.7	16
47	A temporal window of vulnerability for development of atrial fibrillation with advancing heart failure. European Journal of Heart Failure, 2014, 16, 271-280.	7.1	15
48	Comparative Effectiveness of Acupuncture and Antiarrhythmic Drugs for the Prevention of Cardiac Arrhythmias: A Systematic Review and Meta-analysis of Randomized Controlled Trials. Frontiers in Physiology, 2017, 8, 358.	2.8	14
49	Meta-Analysis of Risk Stratification of SCN5A With Brugada Syndrome: Is SCN5A Always a Marker of Low Risk?. Frontiers in Physiology, 2019, 10, 103.	2.8	14
50	Pooled Analysis of Risk Stratification of Spontaneous Type 1 Brugada ECG: Focus on the Influence of Gender and EPS. Frontiers in Physiology, 2018, 9, 1951.	2.8	14
51	Susceptibility to Ventricular Arrhythmias Resulting from Mutations in FKBP1B, PXDNL, and SCN9A Evaluated in hiPSC Cardiomyocytes. Stem Cells International, 2020, 2020, 1-16.	2.5	11
52	The Small Conductance Calcium-Activated Potassium Channel Inhibitors NS8593 and UCL1684 Prevent the Development of Atrial Fibrillation Through Atrial-Selective Inhibition of Sodium Channel Activity. Journal of Cardiovascular Pharmacology, 2020, 76, 164-172.	1.9	10
53	Acacetin, a Potent Transient Outward Current Blocker, May Be a Novel Therapeutic for KCND3 -Encoded Kv4.3 Gain-of-Function-Associated J-Wave Syndromes. Circulation Genomic and Precision Medicine, 2022, 15, .	3.6	10
54	Expression of H_v1 proton channels in myeloid-derived suppressor cells (MDSC) and its potential role in T cell regulation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2104453119.	7.1	9

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55	Biophysical and molecular comparison of sodium current in cells isolated from canine atria and pulmonary vein. Pflugers Archiv European Journal of Physiology, 2017, 469, 703-712.	2.8	8
56	Abrogation of CC Chemokine Receptor 9 Ameliorates Ventricular Electrical Remodeling in Mice After Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2021, 8, 716219.	2.4	8
57	Clinical characteristics, risk factors, and cardiac manifestations of cancer patients with COVID-19. Journal of Applied Physiology, 2021, 131, 966-976.	2.5	7
58	Immunostimulating Effect of Aqueous Extract of Amphypterygium Adstringens on Immune Cellular Response in Immunosuppressed Mice. Tropical Journal of Obstetrics and Gynaecology, 2012, 10, 35-9.	0.3	6
59	Clinical and Functional Genetic Characterization of the Role of Cardiac Calcium Channel Variants in the Early Repolarization Syndrome. Frontiers in Cardiovascular Medicine, 2021, 8, 680819.	2.4	6
60	Common variants in SCN10A gene associated with Brugada syndrome. Human Molecular Genetics, 2021, 31, 157-165.	2.9	6
61	Mutations in the Cardiac L-Type Calcium Channel Associated with Inherited Sudden Cardiac Death Syndromes. Heart Rhythm, 2010, 7, 1719.	0.7	5
62	Association of the Vascular Endothelial Growth Factor Gene PolymorphismÂ+936ÂC/T with Diabetic Neuropathy in Patients with Type 2 Diabetes Mellitus. Archives of Medical Research, 2019, 50, 181-186.	3.3	5
63	Acquired short QT syndrome in a cancer patient treated with Toad. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 1273-1275.	1.2	5
64	Atrial fibrillation associated with Wolff-Parkinson-White syndrome in a patient with concomitant Brugada syndrome. HeartRhythm Case Reports, 2017, 3, 13-17.	0.4	4
65	Overlap Arrhythmia Syndromes Resulting from Multiple Genetic Variations Studied in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. International Journal of Molecular Sciences, 2021, 22, 7108.	4.1	4
66	MYH7 p.Glu903Gln Is a Pathogenic Variant Associated With Hypertrophic Cardiomyopathy. Circulation Genomic and Precision Medicine, 2021, 14, e003476.	3.6	4
67	Frequency of Irritable Bowel Syndrome in Patients with Brugada Syndrome and Drug-Induced Type 1 Brugada Pattern. American Journal of Cardiology, 2021, 151, 51-56.	1.6	3
68	Intracellular uptake of agents that block the hERG channel can confound the assessment of QT interval prolongation and arrhythmic risk. Heart Rhythm, 2021, 18, 2177-2186.	0.7	2
69	A carvedilol analogue, VKâ€Ilâ€86, prevents hypokalaemiaâ€induced ventricular arrhythmia through novel multiâ€channel effects. British Journal of Pharmacology, 2021, , .	5.4	2
70	Genetics Bases of Cardiac Sodium Channel Mutations linked to Inherited Cardiac Arrhythmias. Journal of Human Growth and Development, 2016, 26, 277.	0.6	1
71	T Wave Safety Margin during the Process of ICD Implantation As a Novel Predictor of T Wave Oversensing. Frontiers in Physiology, 2017, 8, 659.	2.8	1
72	A novel three base-pair deletion in domain two of the cardiac sodium channel causes Brugada syndrome. Journal of Electrocardiology, 2018, 51, 667-673.	0.9	1

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73	Acquired Long QT Syndrome and Torsades de Pointes after Mitral Valve Replacement Surgery. Journal of Cardiac Arrhythmias, 2021, , 53-56.	0.1	1
74	Biophysical and Molecular Comparison of Sodium Current in Cells Isolated from Canine Atria and Pulmonary Vein. Biophysical Journal, 2017, 112, 233a-234a.	0.5	0
75	Traditional Chinese Medicine Is Widely Used for Cardiovascular Disease. Cardiovascular Innovations and Applications, 2018, 3, .	0.3	0
76	The Future Is Here: Experimental Models and Genetics in Brugada Phenocopy. , 2018, , 125-132.		0
77	Role of multimodality imaging in a patient with posterior left ventricular aneurysm and non-compaction: Review of the literature.. Journal of Nuclear Cardiology, 2022, 29, 1091-1099.	2.1	0
78	Rings and ovoid heart: OCIR. A new cardiomyopathy? Family genetic findings and multimodality imaging analysis. A rare cardiac phenotype and review of the literature. Journal of Nuclear Cardiology, 2021, 28, 359-366.	2.1	0
79	BS10â€…A carvedilol analogue, VKII-86, prevents hypokalaemia-induced ventricular arrhythmia through novel multi-channel effects. , 2021, , .		0
80	B-PO03-018 CLINICAL CHARACTERISTICS AND ELECTROPHYSIOLOGIC PROPERTIES OF SCN5A VARIANTS IN FEVER-INDUCED BRUGADA SYNDROME. Heart Rhythm, 2021, 18, S195-S196.	0.7	0
81	Novel polygenetic variants evidenced in a patient with Jervell and Lange-Nielsen syndrome. Cardiology Journal, 2021, 28, 786-789.	1.2	0
82	Clinical Characteristics, Risk Factors and Cardiac Manifestations of Cancer Patients with COVID-19. SSRN Electronic Journal, 0, , .	0.4	0
83	Ionic and Cellular Mechanisms Underlying the Development of Acquired Brugada Syndrome in Patients Treated with Antidepressants. Journal of Arrhythmia, 2011, 27, CP2_01.	1.2	0
84	J Wave Syndromes: Brugada and Early Repolarization Syndromes. Contemporary Cardiology, 2020, , 745-774.	0.1	0
85	Left ventricular apical-basal muscle bundle. A marker of hypertrophic cardiomyopathy?. Archivos De Cardiologï¿½a De Mï¿½xico (English Ed Internet), 2022, 91, .	0.0	0