

# Flavien Charpentier

## List of Publications by Year in descending order

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90  
papers

4,813  
citations

101543

36  
h-index

95266

68  
g-index

90  
all docs

90  
docs citations

90  
times ranked

5502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional beta3-adrenoceptor in the human heart.. Journal of Clinical Investigation, 1996, 98, 556-562.	8.2	404
2	Electrophysiologic characteristics of cells spanning the left ventricular wall of human heart: Evidence for presence of M cells. Journal of the American College of Cardiology, 1995, 26, 185-192.	2.8	381
3	Bradycardia and Slowing of the Atrioventricular Conduction in Mice Lacking Ca V 3.1/ $\pm$ 1G T-Type Calcium Channels. Circulation Research, 2006, 98, 1422-1430.	4.5	275
4	Conditional Mineralocorticoid Receptor Expression in the Heart Leads to Life-Threatening Arrhythmias. Circulation, 2005, 111, 3025-3033.	1.6	240
5	Human Atrial Ion Channel and Transporter Subunit Gene-Expression Remodeling Associated With Valvular Heart Disease and Atrial Fibrillation. Circulation, 2005, 112, 471-481.	1.6	215
6	Phosphatidylinositol-4,5-bisphosphate, PIP2, controls KCNQ1/KCNE1 voltage-gated potassium channels: a functional homology between voltage-gated and inward rectifier K+ channels. EMBO Journal, 2003, 22, 5412-5421.	7.8	203
7	Mouse Model of SCN5A -Linked Hereditary Long QT Syndrome Disease. Circulation, 2005, 111, 1738-1746.	1.6	199
8	Multifocal Ectopic Purkinje-Related Premature Contractions. Journal of the American College of Cardiology, 2012, 60, 144-156.	2.8	156
9	Impaired Impulse Propagation in Scn5a -Knockout Mice. Circulation, 2005, 112, 1927-1935.	1.6	151
10	The Sodium-Glucose Cotransporter 2 Inhibitor Dapagliflozin Prevents Cardiomyopathy in a Diabetic Lipodystrophic Mouse Model. Diabetes, 2017, 66, 1030-1040.	0.6	119
11	Autologous myoblast transplantation after myocardial infarction increases the inducibility of ventricular arrhythmias. Cardiovascular Research, 2006, 69, 348-358.	3.8	116
12	Sinus node dysfunction following targeted disruption of the murine cardiac sodium channel gene Scn5a. Journal of Physiology, 2005, 567, 387-400.	2.9	107
13	Phosphodiesterase 4B in the cardiac L-type Ca <sup>2+</sup> channel complex regulates Ca <sup>2+</sup> current and protects against ventricular arrhythmias in mice. Journal of Clinical Investigation, 2011, 121, 2651-2661.	8.2	105
14	Amiodarone reduces transmural heterogeneity of repolarization in the human heart. Journal of the American College of Cardiology, 1998, 32, 1063-1067.	2.8	97
15	A Dominant Negative Isoform of the Long QT Syndrome 1 Gene Product. Journal of Biological Chemistry, 1998, 273, 6837-6843.	3.4	82
16	Microarray Analysis Reveals Complex Remodeling of Cardiac Ion Channel Expression With Altered Thyroid Status. Circulation Research, 2003, 92, 234-242.	4.5	82
17	Delayed rectifier K+ currents and cardiac repolarization. Journal of Molecular and Cellular Cardiology, 2010, 48, 37-44.	1.9	71
18	Variable Nav1.5 Protein Expression from the Wild-Type Allele Correlates with the Penetrance of Cardiac Conduction Disease in the Scn5a+/ $\Delta$ Mouse Model. PLoS ONE, 2010, 5, e9298.	2.5	67

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19	Differential expression of KvLQT1 isoforms across the human ventricular wall. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H1908-H1915.	3.2	62
20	Transgenic mice overexpressing human KvLQT1 dominant-negative isoform Part I: Phenotypic characterisation. <i>Cardiovascular Research</i> , 2001, 50, 314-327.	3.8	62
21	Toward Personalized Medicine: Using Cardiomyocytes Differentiated From Urine-Derived Pluripotent Stem Cells to Recapitulate Electrophysiological Characteristics of Type 2 Long QT Syndrome. <i>Journal of the American Heart Association</i> , 2015, 4, e002159.	3.7	61
22	Conditional FKBP12.6 Overexpression in Mouse Cardiac Myocytes Prevents Triggered Ventricular Tachycardia Through Specific Alterations in Excitation- Contraction Coupling. <i>Circulation</i> , 2008, 117, 1778-1786.	1.6	57
23	KvLQT1 Potassium Channel but Not IsK Is the Molecular Target for trans-6-Cyano-4-(N-ethylsulfonyl-N-methylamino)-3-hydroxy-2,2-dimethyl-chromane. <i>Molecular Pharmacology</i> , 1997, 52, 1131-1136.	2.3	51
24	KCNQ1 Channels Voltage Dependence through a Voltage-dependent Binding of the S4-S5 Linker to the Pore Domain. <i>Journal of Biological Chemistry</i> , 2011, 286, 707-716.	3.4	49
25	<i>RRAD</i> mutation causes electrical and cytoskeletal defects in cardiomyocytes derived from a familial case of Brugada syndrome. <i>European Heart Journal</i> , 2019, 40, 3081-3094.	2.2	48
26	Mass Spectrometry-Based Identification of Native Cardiac Nav1.5 Channel $\beta$ Subunit Phosphorylation Sites. <i>Journal of Proteome Research</i> , 2012, 11, 5994-6007.	3.7	47
27	G protein-gated <i>I<sub>K</sub></i> channels as therapeutic targets for treatment of sick sinus syndrome and heart block. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E932-41.	7.1	47
28	Cardiac Overexpression of PDE4B Blunts $\beta$ -Adrenergic Response and Maladaptive Remodeling in Heart Failure. <i>Circulation</i> , 2020, 142, 161-174.	1.6	47
29	Effects of chronic treatment by amiodarone on transmural heterogeneity of canine ventricular repolarization in vivo: interactions with acute sotalol. <i>Cardiovascular Research</i> , 1999, 44, 303-314.	3.8	46
30	Osteopontin Expression in Cardiomyocytes Induces Dilated Cardiomyopathy. <i>Circulation: Heart Failure</i> , 2010, 3, 431-439.	3.9	46
31	Adult KCNE1-Knockout Mice Exhibit a Mild Cardiac Cellular Phenotype. <i>Biochemical and Biophysical Research Communications</i> , 1998, 251, 806-810.	2.1	45
32	Long-Term Amiodarone Administration Remodels Expression of Ion Channel Transcripts in the Mouse Heart. <i>Circulation</i> , 2004, 110, 3028-3035.	1.6	41
33	Physiological and Pathophysiological Insights of Nav1.4 and Nav1.5 Comparison. <i>Frontiers in Pharmacology</i> , 2015, 6, 314.	3.5	40
34	An autoantibody profile detects Brugada syndrome and identifies abnormally expressed myocardial proteins. <i>European Heart Journal</i> , 2020, 41, 2878-2890.	2.2	40
35	Remodeling of excitation-contraction coupling in transgenic mice expressing ATP-insensitive sarcolemmal KATP channels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1361-H1369.	3.2	39
36	Chronic heart rate reduction remodels ion channel transcripts in the mouse sinoatrial node but not in the ventricle. <i>Physiological Genomics</i> , 2006, 24, 4-12.	2.3	38

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37	Mouse models of SCN5A-related cardiac arrhythmias. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 98, 230-237.	2.9	38
38	Cardiac cell therapy: overexpression of connexin43 in skeletal myoblasts and prevention of ventricular arrhythmias. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3703-3712.	3.6	36
39	Mouse Models of SCN5A-Related Cardiac Arrhythmias. <i>Frontiers in Physiology</i> , 2012, 3, 210.	2.8	36
40	Abnormal cardiac repolarization and impulse initiation in German shepherd dogs with inherited ventricular arrhythmias and sudden death. <i>Cardiovascular Research</i> , 1999, 42, 65-79.	3.8	34
41	Trafficking-deficient long QT syndrome mutation KCNQ1-T587M confers severe clinical phenotype by impairment of KCNH2 membrane localization: Evidence for clinically significant IKr-IKs I $\pm$ -subunit interaction. <i>Heart Rhythm</i> , 2009, 6, 1792-1801.	0.7	34
42	C-terminal phosphorylation of NaV1.5 impairs FGF13-dependent regulation of channel inactivation. <i>Journal of Biological Chemistry</i> , 2017, 292, 17431-17448.	3.4	33
43	Phosphatidylinositol-4,5-Bisphosphate (PIP2) Stabilizes the Open Pore Conformation of the Kv11.1 (hERG) Channel. <i>Biophysical Journal</i> , 2010, 99, 1110-1118.	0.5	31
44	Transgenic mice overexpressing human KvLQT1 dominant-negative isoform Part II: Pharmacological profile. <i>Cardiovascular Research</i> , 2001, 50, 328-334.	3.8	30
45	KV4.3 Expression Modulates NaV1.5 Sodium Current. <i>Frontiers in Physiology</i> , 2018, 9, 178.	2.8	30
46	Normal interventricular differences in tissue architecture underlie right ventricular susceptibility to conduction abnormalities in a mouse model of Brugada syndrome. <i>Cardiovascular Research</i> , 2018, 114, 724-736.	3.8	28
47	Transforming growth factor $\beta^2$ receptor inhibition prevents ventricular fibrosis in a mouse model of progressive cardiac conduction disease. <i>Cardiovascular Research</i> , 2017, 113, 464-474.	3.8	26
48	Cardiac channelopathies: from men to mice. <i>Annals of Medicine</i> , 2004, 36, 28-34.	3.8	25
49	Biological Pacemaker Engineered by Nonviral Gene Transfer in a Mouse Model of Complete Atrioventricular Block. <i>Molecular Therapy</i> , 2008, 16, 1937-1943.	8.2	24
50	Rabbit, a relevant model for the study of cardiac $\beta^3$ -adrenoceptors. <i>Experimental Physiology</i> , 2009, 94, 400-411.	2.0	24
51	HIV-Tat induces a decrease in I Kr and I Ks via reduction in phosphatidylinositol-(4,5)-bisphosphate availability. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 99, 1-13.	1.9	24
52	Functional genomics of cardiac ion channel genes. <i>Cardiovascular Research</i> , 2005, 67, 438-447.	3.8	23
53	Targeting the Microtubule EB1-CLASP2 Complex Modulates Na <sub>V</sub> 1.5 at Intercalated Discs. <i>Circulation Research</i> , 2021, 129, 349-365.	4.5	23
54	Early after/depolarizations and triggered activity: mechanisms and autonomic regulation. <i>Fundamental and Clinical Pharmacology</i> , 1993, 7, 39-49.	1.9	22

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55	Electropharmacological characterization of cardiac repolarization in German shepherd dogs with an inherited syndrome of sudden death: abnormal response to potassium channel blockers. <i>Journal of the American College of Cardiology</i> , 2000, 36, 939-947.	2.8	21
56	Role of T-type calcium channel subunits in post-myocardial infarction remodelling probed with genetically engineered mice. <i>Cardiovascular Research</i> , 2011, 91, 420-428.	3.8	21
57	Cardiac FKBP12.6 overexpression protects against triggered ventricular tachycardia in pressure overloaded mouse hearts. <i>Basic Research in Cardiology</i> , 2012, 107, 246.	5.9	21
58	Infanticide vs. inherited cardiac arrhythmias. <i>Europace</i> , 2021, 23, 441-450.	1.7	21
59	Dysfunction of the Voltage-Gated K <sup>+</sup> Channel $\beta$ 2 Subunit in a Familial Case of Brugada Syndrome. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	20
60	Expression of human ERG K channels in the mouse heart exerts anti-arrhythmic activity. <i>Cardiovascular Research</i> , 2005, 65, 128-137.	3.8	19
61	T-Type Calcium Current Contributes to Escape Automaticity and Governs the Occurrence of Lethal Arrhythmias After Atrioventricular Block in Mice. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 799-808.	4.8	19
62	KCNE1-KCNQ1 osmoregulation by interaction of phosphatidylinositol-4,5-bisphosphate with Mg <sup>2+</sup> and polyamines. <i>Journal of Physiology</i> , 2010, 588, 3471-3483.	2.9	18
63	Early ion-channel remodeling and arrhythmias precede hypertrophy in a mouse model of complete atrioventricular block. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 713-721.	1.9	17
64	Human model of <i>IRX5</i> mutations reveals key role for this transcription factor in ventricular conduction. <i>Cardiovascular Research</i> , 2021, 117, 2092-2107.	3.8	17
65	Triggered Activity As a Possible Mechanism for Arrhythmias in Ventricular Hypertrophy. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1991, 14, 1735-1741.	1.2	16
66	Mental stress test: a rapid, simple, and efficient test to unmask long QT syndrome. <i>Europace</i> , 2018, 20, 2014-2020.	1.7	15
67	KCNQ1 Antibodies for Immunotherapy of Long QT Syndrome Type 2. <i>Journal of the American College of Cardiology</i> , 2020, 75, 2140-2152.	2.8	14
68	Inhibition of G protein-gated K <sup>+</sup> channels by tertiapin-Q rescues sinus node dysfunction and atrioventricular conduction in mouse models of primary bradycardia. <i>Scientific Reports</i> , 2020, 10, 9835.	3.3	13
69	$\beta$ -1-Adrenergic Stimulation Induces Early Afterdepolarizations in Ferret Purkinje Fibers. <i>Journal of Cardiovascular Pharmacology</i> , 1996, 27, 320-326.	1.9	13
70	Endomyocardial Biopsies: A New Approach for Studying the Electrical and Mechanical Properties of Human Ventricular Myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 1994, 26, 1267-1271.	1.9	12
71	Identifying potential functional impact of mutations and polymorphisms: linking heart failure, increased risk of arrhythmias and sudden cardiac death. <i>Frontiers in Physiology</i> , 2013, 4, 254.	2.8	12
72	Gap-134, a Connexin43 activator, prevents age-related development of ventricular fibrosis in Scn5a <sup>-/-</sup> mice. <i>Pharmacological Research</i> , 2020, 159, 104922.	7.1	8

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73	Modelling sudden cardiac death risks factors in patients with coronavirus disease of 2019: the hydroxychloroquine and azithromycin case. <i>Europace</i> , 2021, 23, 1124-1136.	1.7	8
74	Transfer of Rolf S3-S4 Linker to hERG Eliminates Activation Gating but Spares Inactivation. <i>Biophysical Journal</i> , 2009, 97, 1323-1334.	0.5	7
75	Familial Catecholamine-Induced QT Prolongation in Unexplained Sudden Cardiac Death. <i>Journal of the American College of Cardiology</i> , 2017, 69, 1642-1643.	2.8	7
76	Understanding the cardiac role of K2P channels: A new TASK for electrophysiologists. <i>Cardiovascular Research</i> , 2007, 75, 5-6.	3.8	6
77	Progressive Cardiac Conduction Disease. , 2008, , 564-576.		6
78	Arrhythmias precede cardiomyopathy and remodeling of Ca <sup>2+</sup> handling proteins in a novel model of long QT syndrome. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 123, 13-25.	1.9	5
79	Functional Impact of BeKm-1, a High-Affinity hERG Blocker, on Cardiomyocytes Derived from Human-Induced Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7167.	4.1	5
80	A consistent arrhythmogenic trait in Brugada syndrome cellular phenotype. <i>Clinical and Translational Medicine</i> , 2021, 11, e413.	4.0	5
81	Guest Editors' Introduction. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 1.	1.9	3
82	Human MuStem Cell Grafting into Infarcted Rat Heart Attenuates Adverse Tissue Remodeling and Preserves Cardiac Function. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 446-463.	4.1	3
83	Phosphoproteomic Identification of CaMKII- and Heart Failure-Dependent Phosphorylation Sites on the Native Cardiac Nav1.5 Channel Protein. <i>Biophysical Journal</i> , 2014, 106, 37a.	0.5	2
84	Generation of human induced pluripotent stem cell lines from four unrelated healthy control donors carrying European genetic background. <i>Stem Cell Research</i> , 2022, 59, 102647.	0.7	2
85	Cardiac ion channels and channelopathies. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 983.	1.9	0
86	KCNQ1-R539W Mutation Substitutes Cholesterol for Phosphatidylinositol-4, 5-Bisphosphate in Channel Regulation. <i>Biophysical Journal</i> , 2011, 100, 428a.	0.5	0
87	Abnormalities in Transmural Ventricular Electrophysiology in a Heterozygous SCN5A Knockout Mouse Model Revealed by Two-Photon Microscopy. <i>Biophysical Journal</i> , 2015, 108, 274a.	0.5	0
88	A Molecular Substrate for Long QT in HIV Patients: Tat Protein Reduces IKR in Human Induced Pluripotent Stem Cells-Derived Cardiomyocytes. <i>Biophysical Journal</i> , 2016, 110, 103a.	0.5	0
89	HIV-Tat Induces a Decrease in I <sub>Kr</sub> and I <sub>Ks</sub> via Reduction in Phosphatidylinositol-(4,5)-Bisphosphate Availability. <i>Biophysical Journal</i> , 2017, 112, 405a.	0.5	0
90	Progressive Cardiac Conduction Disease. , 2013, , 583-603.		0