

Henry J Duff

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115
papers

4,756
citations

38
h-index

66
g-index

119
ext. papers

5,384
ext. citations

7.2
avg, IF

4.9
L-index

#	Paper	IF	Citations
115	Flecainide prevents catecholaminergic polymorphic ventricular tachycardia in mice and humans. <i>Nature Medicine</i> , 2009 , 15, 380-3	50.5	436
114	Noninvasive risk assessment early after a myocardial infarction the REFINE study. <i>Journal of the American College of Cardiology</i> , 2007 , 50, 2275-84	15.1	261
113	A randomized clinical trial of the noninvasive and invasive approaches to drug therapy of ventricular tachycardia. <i>New England Journal of Medicine</i> , 1987 , 317, 1681-7	59.2	169
112	Inflammasome-independent NLRP3 augments TGF- β signaling in kidney epithelium. <i>Journal of Immunology</i> , 2013 , 190, 1239-49	5.3	162
111	Arrhythmogenic right ventricular cardiomyopathy/dysplasia clinical presentation and diagnostic evaluation: results from the North American Multidisciplinary Study. <i>Heart Rhythm</i> , 2009 , 6, 984-92	6.7	158
110	Carvedilol and its new analogs suppress arrhythmogenic store overload-induced Ca ²⁺ release. <i>Nature Medicine</i> , 2011 , 17, 1003-9	50.5	157
109	Developmental changes in the delayed rectifier K ⁺ channels in mouse heart. <i>Circulation Research</i> , 1996 , 79, 79-85	15.7	153
108	Electrophysiological characterization of an alternatively processed ERG K ⁺ channel in mouse and human hearts. <i>Circulation Research</i> , 1997 , 81, 719-26	15.7	151
107	The ryanodine receptor store-sensing gate controls Ca ²⁺ waves and Ca ²⁺ -triggered arrhythmias. <i>Nature Medicine</i> , 2014 , 20, 184-92	50.5	135
106	The Nlrp3 inflammasome promotes myocardial dysfunction in structural cardiomyopathy through interleukin-1 β <i>Experimental Physiology</i> , 2013 , 98, 462-72	2.4	123
105	Caffeine induces Ca ²⁺ release by reducing the threshold for luminal Ca ²⁺ activation of the ryanodine receptor. <i>Biochemical Journal</i> , 2008 , 414, 441-52	3.8	116
104	Reduction in defibrillator shocks with an implantable device combining antitachycardia pacing and shock therapy. <i>Journal of the American College of Cardiology</i> , 1991 , 18, 145-51	15.1	109
103	Mitochondrial NLRP3 protein induces reactive oxygen species to promote Smad protein signaling and fibrosis independent from the inflammasome. <i>Journal of Biological Chemistry</i> , 2014 , 289, 19571-84	5.4	99
102	Role of magnetic resonance imaging in arrhythmogenic right ventricular dysplasia: insights from the North American arrhythmogenic right ventricular dysplasia (ARVD/C) study. <i>American Heart Journal</i> , 2008 , 155, 147-53	4.9	94
101	Beta-blocker use and survival in patients with ventricular fibrillation or symptomatic ventricular tachycardia: the Antiarrhythmics Versus Implantable Defibrillators (AVID) trial. <i>Journal of the American College of Cardiology</i> , 1999 , 34, 325-33	15.1	93
100	Developmental changes in transient outward current in mouse ventricle. <i>Circulation Research</i> , 1997 , 81, 120-7	15.7	83
99	Comparison of biphasic and monophasic shocks for defibrillation using a nonthoracotomy system. <i>American Journal of Cardiology</i> , 1993 , 71, 197-202	3	81

98	Combined receptor and ligand-based approach to the universal pharmacophore model development for studies of drug blockade to the hERG1 pore domain. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 463-74	6.1	77
97	Removal of FKBP12.6 does not alter the conductance and activation of the cardiac ryanodine receptor or the susceptibility to stress-induced ventricular arrhythmias. <i>Journal of Biological Chemistry</i> , 2007 , 282, 34828-38	5.4	77
96	In vivo temporal and spatial distribution of depolarization and repolarization and the illusive murine T wave. <i>Journal of Physiology</i> , 2004 , 555, 267-79	3.9	65
95	Novel gain-of-function mechanism in K(+) channel-related long-QT syndrome: altered gating and selectivity in the HERG1 N629D mutant. <i>Circulation Research</i> , 2000 , 86, 507-13	15.7	65
94	Programmed electrical stimulation studies for ventricular tachycardia induction in humans. I. The role of ventricular functional refractoriness in tachycardia induction. <i>Journal of the American College of Cardiology</i> , 1986 , 8, 567-75	15.1	65
93	Macrophage Uptake of Necrotic Cell DNA Activates the AIM2 Inflammasome to Regulate a Proinflammatory Phenotype in CKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 1165-1181	12.7	61
92	Modeling of open, closed, and open-inactivated states of the hERG1 channel: structural mechanisms of the state-dependent drug binding. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2760-74	6.1	60
91	Effect of coronary angioplasty on precordial QT dispersion. <i>American Journal of Cardiology</i> , 1997 , 79, 1339-42	3	58
90	Effect of stimulation rate, sarcomere length and Ca(2+) on force generation by mouse cardiac muscle. <i>Journal of Physiology</i> , 2002 , 544, 817-30	3.9	56
89	Phospholamban knockout breaks arrhythmogenic Ca ²⁺ waves and suppresses catecholaminergic polymorphic ventricular tachycardia in mice. <i>Circulation Research</i> , 2013 , 113, 517-26	15.7	52
88	Increased precordial QTc dispersion predicts ventricular fibrillation during acute myocardial infarction. <i>American Journal of Cardiology</i> , 1996 , 78, 706-8	3	52
87	Selective knockout of mouse ERG1 B potassium channel eliminates I(Kr) in adult ventricular myocytes and elicits episodes of abrupt sinus bradycardia. <i>Molecular and Cellular Biology</i> , 2003 , 23, 1856-62	4.8	49
86	Overexpression of calcineurin in mouse causes sudden cardiac death associated with decreased density of K ⁺ channels. <i>Cardiovascular Research</i> , 2003 , 57, 320-32	9.9	47
85	Ivabradine prolongs phase 3 of cardiac repolarization and blocks the hERG1 (KCNH2) current over a concentration-range overlapping with that required to block HCN4. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 85, 71-8	5.8	46
84	Structural refinement of the hERG1 pore and voltage-sensing domains with ROSETTA-membrane and molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 2922-34	4.2	44
83	Exaggerated block of hERG (KCNH2) and prolongation of action potential duration by erythromycin at temperatures between 37 degrees C and 42 degrees C. <i>Heart Rhythm</i> , 2005 , 2, 860-6	6.7	44
82	Homozygous missense N629D hERG (KCNH2) potassium channel mutation causes developmental defects in the right ventricle and its outflow tract and embryonic lethality. <i>Circulation Research</i> , 2008 , 103, 1483-91	15.7	42
81	Age-dependent response of the electrocardiogram to K(+) channel blockers in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 278, C73-80	5.4	40

80	Clinical pharmacokinetics of propafenone. <i>Clinical Pharmacokinetics</i> , 1991 , 21, 1-10	6.2	40
79	Direct Effects of Empagliflozin on Extracellular Matrix Remodelling in Human Cardiac Myofibroblasts: Novel Translational Clues to Explain EMPA-REG OUTCOME Results. <i>Canadian Journal of Cardiology</i> , 2020 , 36, 543-553	3.8	40
78	Glucocorticoid regulation of cardiac K ⁺ currents and L-type Ca ²⁺ current in neonatal mice. <i>Circulation Research</i> , 1999 , 85, 168-73	15.7	39
77	A computational model of induced pluripotent stem-cell derived cardiomyocytes incorporating experimental variability from multiple data sources. <i>Journal of Physiology</i> , 2019 , 597, 4533-4564	3.9	38
76	Interactions of H562 in the S5 helix with T618 and S621 in the pore helix are important determinants of hERG1 potassium channel structure and function. <i>Biophysical Journal</i> , 2009 , 96, 3600-10 ² .9		35
75	Blockade of HERG cardiac K ⁺ current by antifungal drug miconazole. <i>British Journal of Pharmacology</i> , 2005 , 144, 840-8	8.6	34
74	Calmodulin kinase II accelerates L-type Ca ²⁺ current recovery from inactivation and compensates for the direct inhibitory effect of [Ca ²⁺] _i in rat ventricular myocytes. <i>Journal of Physiology</i> , 2006 , 574, 509-18	3.9	31
73	Hypomagnesemia: characterization of a model of sudden cardiac death. <i>Journal of the American College of Cardiology</i> , 1996 , 27, 1771-6	15.1	30
72	Skeletal and cardiac ryanodine receptors exhibit different responses to Ca ²⁺ overload and luminal ca ²⁺ . <i>Biophysical Journal</i> , 2007 , 92, 2757-70	2.9	29
71	Detection of entrapped intracardiac air with intraoperative echocardiography. <i>American Journal of Cardiology</i> , 1980 , 46, 255-60	3	28
70	Cell therapy limits myofibroblast differentiation and structural cardiac remodeling: basic fibroblast growth factor-mediated paracrine mechanism. <i>Circulation: Heart Failure</i> , 2012 , 5, 349-56	7.6	27
69	Effects of left ventricular dysfunction on the circadian variation of ventricular premature complexes in healed myocardial infarction. <i>American Journal of Cardiology</i> , 1992 , 69, 1009-14	3	26
68	Comparison of atrial overdrive pacing with and without extrastimuli for termination of atrial flutter. <i>American Journal of Cardiology</i> , 1992 , 70, 463-7	3	26
67	Drug therapy for ventricular tachyarrhythmias: how many electropharmacologic trials are appropriate?. <i>Journal of the American College of Cardiology</i> , 1991 , 17, 391-6	15.1	26
66	Structure-guided topographic mapping and mutagenesis to elucidate binding sites for the human ether-a-go-go-related gene 1 potassium channel (KCNH2) activator NS1643. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 342, 441-52	4.7	25
65	Induction of heart rate and blood pressure turbulence in the electrophysiologic laboratory. <i>American Journal of Cardiology</i> , 2002 , 90, 1098-102	3	25
64	Programmed electrical stimulation studies for ventricular tachycardia induction in humans. II. Comparison of indwelling electrode catheter and daily catheter replacement. <i>Journal of the American College of Cardiology</i> , 1986 , 8, 576-81	15.1	25
63	Comparison of the effects of placebo and encainide on programmed electrical stimulation and ventricular arrhythmia frequency. <i>American Journal of Cardiology</i> , 1982 , 50, 305-12	3	24

62	NS1643 interacts around L529 of hERG to alter voltage sensor movement on the path to activation. <i>Biophysical Journal</i> , 2015 , 108, 1400-1413	2.9	23
61	Impact of stirred suspension bioreactor culture on the differentiation of murine embryonic stem cells into cardiomyocytes. <i>BMC Cell Biology</i> , 2011 , 12, 53		22
60	Drug response at electropharmacologic study in patients with ventricular tachyarrhythmias: the importance of ventricular refractoriness. <i>Journal of the American College of Cardiology</i> , 1991 , 17, 914-20	15.1	22
59	Beneficial effects of statin therapy for prevention of atrial fibrillation following DDDR pacemaker implantation. <i>European Heart Journal</i> , 2008 , 29, 1873-80	9.5	21
58	Suppression of ryanodine receptor function prolongs Ca ²⁺ release refractoriness and promotes cardiac alternans in intact hearts. <i>Biochemical Journal</i> , 2016 , 473, 3951-3964	3.8	20
57	Role of the pH in state-dependent blockade of hERG currents. <i>Scientific Reports</i> , 2016 , 6, 32536	4.9	20
56	Time to arrhythmic, ischemic, and heart failure events: exploratory analyses to elucidate mechanisms of adverse drug effects in the Cardiac Arrhythmia Suppression Trial. <i>American Heart Journal</i> , 1995 , 130, 71-9	4.9	19
55	Kinetic model for NS1643 drug activation of WT and L529I variants of Kv11.1 (hERG1) potassium channel. <i>Biophysical Journal</i> , 2015 , 108, 1414-1424	2.9	18
54	Clinical and electrophysiologic predictors of ventricular tachyarrhythmia recurrence in patients with implantable cardioverter defibrillators. <i>Journal of Cardiovascular Electrophysiology</i> , 2003 , 14, 492-8	2.7	18
53	Short-coupled ventricular fibrillation represents a distinct phenotype among latent causes of unexplained cardiac arrest: a report from the CASPER registry. <i>European Heart Journal</i> , 2021 , 42, 2827-2838	8.5	18
52	Selectivity filter modalities and rapid inactivation of the hERG1 channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 2795-2804	11.5	17
51	Determinants of Isoform-Specific Gating Kinetics of hERG1 Channel: Combined Experimental and Simulation Study. <i>Frontiers in Physiology</i> , 2018 , 9, 207	4.6	17
50	Definition of predicted effective antiarrhythmic drug therapy for ventricular tachyarrhythmias by the electrophysiologic study approach: randomized comparison of patient response criteria. <i>Journal of the American College of Cardiology</i> , 1997 , 30, 1346-53	15.1	17
49	Intravenous quinidine: relations among concentration, tachyarrhythmia suppression and electrophysiologic actions with inducible sustained ventricular tachycardia. <i>American Journal of Cardiology</i> , 1985 , 55, 92-7	3	17
48	Antiarrhythmic drug effects on QT interval dispersion in patients undergoing electropharmacologic testing for ventricular tachycardia and fibrillation. <i>American Journal of Cardiology</i> , 1998 , 81, 588-93	3	16
47	Hierarchical regulation of wound healing by NOD-like receptors in cardiovascular disease. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 1176-87	8.4	15
46	An International Multicenter Evaluation of Type 5 Long QT Syndrome: A Low Penetrant Primary Arrhythmic Condition. <i>Circulation</i> , 2020 , 141, 429-439	16.7	15
45	The Pore-Lipid Interface: Role of Amino-Acid Determinants of Lipophilic Access by Ivabradine to the hERG1 Pore Domain. <i>Molecular Pharmacology</i> , 2019 , 96, 259-271	4.3	15

44	Characterization of a Unique Form of Arrhythmic Cardiomyopathy Caused by Recessive Mutation in LEMD2. <i>JACC Basic To Translational Science</i> , 2019 , 4, 204-221	8.7	14
43	Rehabilitating drug-induced long-QT promoters: in-silico design of hERG-neutral cisapride analogues with retained pharmacological activity. <i>BMC Pharmacology & Toxicology</i> , 2014 , 15, 14	2.6	14
42	Structure driven design of novel human ether-a-go-go-related-gene channel (hERG1) activators. <i>PLoS ONE</i> , 2014 , 9, e105553	3.7	14
41	Impact of atrial antitachycardia pacing and atrial pace prevention therapies on atrial fibrillation burden over long-term follow-up. <i>Europace</i> , 2009 , 11, 1041-7	3.9	13
40	Randomized controlled trial of fixed rate versus rate responsive pacing after radiofrequency atrioventricular junction ablation: quality of life, ventricular refractoriness, and paced QT dispersion. <i>Journal of Cardiovascular Electrophysiology</i> , 2003 , 14, 1163-70	2.7	13
39	Contribution of quinidine metabolites to electrophysiologic responses in human subjects. <i>Clinical Pharmacology and Therapeutics</i> , 1989 , 46, 352-8	6.1	13
38	A randomized clinical trial of the noninvasive and invasive approaches to drug therapy for ventricular tachycardia: long-term follow-up of the Calgary trial. <i>Progress in Cardiovascular Diseases</i> , 1996 , 38, 377-84	8.5	12
37	Propafenone disposition in renal insufficiency and renal failure. <i>Journal of Clinical Pharmacology</i> , 1989 , 29, 112-3	2.9	12
36	[³ H]dofetilide binding to cardiac myocytes: modulation by extracellular potassium. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 183-91	5.8	11
35	iNOS in cardiac myocytes plays a critical role in death in a murine model of hypertrophy induced by calcineurin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H1122-H1131	5.2	11
34	Heart block in mice overexpressing calcineurin but not NF-AT3. <i>Cardiovascular Research</i> , 2004 , 64, 488-95	5.9	11
33	Effect of oral combination therapy with mexiletine and quinidine on left and right ventricular function. <i>American Heart Journal</i> , 1988 , 115, 1030-6	4.9	11
32	Polymorphisms in multiple genes are associated with resting heart rate in a stepwise allele-dependent manner. <i>Heart Rhythm</i> , 2008 , 5, 694-700	6.7	10
31	Risks of developing supraventricular and ventricular tachyarrhythmias after implantation of a cardioverter-defibrillator, and timing the activation of arrhythmia termination therapies. <i>American Journal of Cardiology</i> , 1993 , 71, 565-8	3	10
30	Control of ventricular preexcitation and associated arrhythmias by encainide. <i>American Heart Journal</i> , 1981 , 102, 794-7	4.9	10
29	Long-term reproducibility of ventricular tachycardia induction in patients with implantable cardioverter/defibrillators. Serial noninvasive studies. <i>Circulation</i> , 1995 , 91, 2605-13	16.7	10
28	Genetic Determinants of Hereditary Bradyarrhythmias: A Contemporary Review of a Diverse Group of Disorders. <i>Canadian Journal of Cardiology</i> , 2017 , 33, 758-767	3.8	9
27	Hemodialysis removal of propafenone. <i>Pharmacotherapy</i> , 1989 , 9, 331-3	5.8	9

26	Transmural temporospatial left ventricular activation during pacing from different sites: potential implications for optimal pacing. <i>Cardiovascular Research</i> , 2008 , 77, 81-8	9.9	8
25	Role of mutation and pharmacologic block of human KCNH2 in vasculogenesis and fetal mortality: partial rescue by transforming growth factor- β . <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 420-8	6.4	7
24	Mechanism of hypotensive transients associated with abrupt bradycardias in conscious rabbits. <i>Canadian Journal of Cardiology</i> , 2007 , 23, 721-6	3.8	7
23	[K(+)](o)-dependent change in conformation of the HERG1 long QT mutation N629D channel results in partial reversal of the in vitro disease phenotype. <i>Cardiovascular Research</i> , 2003 , 57, 642-50	9.9	7
22	Prolonged repolarization and triggered activity induced by adenoviral expression of HERG N629D in cardiomyocytes derived from stem cells. <i>Cardiovascular Research</i> , 2004 , 61, 268-77	9.9	7
21	Concentration-response relationships of disopyramide in patients with ventricular tachycardia. <i>Clinical Pharmacology and Therapeutics</i> , 1989 , 45, 542-7	6.1	7
20	Regulation of expression of the [3H]-dofetilide binding site associated with the delayed rectifier K ⁺ channel by dexamethasone in neonatal mouse ventricle. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 1959-65	5.8	6
19	Telemetry-documented, pace-terminable ventricular tachycardia in patients with ventricular fibrillation. <i>American Journal of Cardiology</i> , 1998 , 81, 235-8	3	5
18	Characteristics of patients with nonfatal cardiac arrest 3 to 180 days after acute myocardial infarction. <i>American Journal of Cardiology</i> , 1993 , 72, 753-8	3	5
17	Prolonged sinus node recovery time in humans after the intracoronary administration of a nitric oxide synthase inhibitor. <i>Journal of Cardiovascular Pharmacology</i> , 1999 , 34, 1-6	3.1	4
16	Allosteric Coupling Between Drug Binding and the Aromatic Cassette in the Pore Domain of the hERG1 Channel: Implications for a State-Dependent Blockade. <i>Frontiers in Pharmacology</i> , 2020 , 11, 914	5.6	4
15	Toward Reducing hERG Affinities for DAT Inhibitors with a Combined Machine Learning and Molecular Modeling Approach. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4266-4279	6.1	4
14	Quinidine pharmacodynamics in patients with arrhythmia: effects of left ventricular function. <i>Journal of the American College of Cardiology</i> , 1995 , 25, 989-94	15.1	3
13	Precordial QT dispersion does not predict inducibility of ventricular tachyarrhythmias at post-revascularization electrophysiologic study. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2002 , 6, 25-33	2.4	2
12	Paced QT dispersion and QT morphology after radiofrequency atrioventricular junction ablation: impact of left ventricular function. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003 , 26, 662-8	1.6	2
11	Biochemical and biophysical studies of the interaction of class I antiarrhythmic drugs with the cardiac sodium channel. <i>Drug Development Research</i> , 1994 , 33, 277-294	5.1	2
10	Lipid regulation of hERG1 channel function. <i>Nature Communications</i> , 2021 , 12, 1409	17.4	2
9	Reversible Dilated Cardiomyopathy Caused by a High Burden of Ventricular Arrhythmias in Andersen-Tawil Syndrome. <i>Canadian Journal of Cardiology</i> , 2016 , 32, 1576.e15-1576.e18	3.8	2

8	Refinement of a cryo-EM structure of hERG: Bridging structure and function. <i>Biophysical Journal</i> , 2021 , 120, 738-748	2.9	2
7	Auto-entrainment risk assessment in heart failure. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 129-36	6.4	1
6	hERG: the long and short of it. <i>Heart Rhythm</i> , 2008 , 5, 591-2	6.7	1
5	Use-dependent electrophysiologic effects of amiodarone in coronary artery disease and inducible ventricular tachycardia. <i>American Journal of Cardiology</i> , 1992 , 70, 598-604	3	1
4	Transcainide: biochemical evidence for state-dependent interaction with the class I antiarrhythmic drug receptor. <i>European Journal of Pharmacology</i> , 1991 , 203, 51-8	5.3	1
3	In response to Melgari et al. "hERG potassium channel inhibition by ivabradine requires channel gating". <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 87, 192-3	5.8	
2	Conduction time oscillations precede the spontaneous termination of human atrioventricular reciprocating tachycardia. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2000 , 4, 231-9	2.4	
1	D. George Wyse, MD, PhD, FRCPC, FHRS (1941-2022).. <i>Heart Rhythm</i> , 2022 , 19, 513-514	6.7	