

Halina Halina Dobrzynski

List of Publications by Year in descending order

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124
papers

6,098
citations

76031

42
h-index

87275

74
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128
all docs

128
docs citations

128
times ranked

5144
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammatory degranulation of the cardiac resident mast cells suppresses the pacemaking and affects activation pattern in the sinoatrial node. <i>Translational Research in Anatomy</i> , 2022, 26, 100170.	0.3	0
2	Editorial: Vascular Disease Multi-Scale Multi-Physics Modeling and Experimental Data. <i>Frontiers in Physiology</i> , 2022, 13, 865905.	1.3	0
3	Novel micro-computed tomography contrast agents to visualise the human cardiac conduction system and surrounding structures in hearts from normal, aged, and obese individuals. <i>Translational Research in Anatomy</i> , 2022, 27, 100175.	0.3	1
4	A circadian clock in the sinus node mediates day-night rhythms in <i>Hcn4</i> and heart rate. <i>Heart Rhythm</i> , 2021, 18, 801-810.	0.3	46
5	Attenuation of inward rectifier potassium current contributes to the β_1 -adrenergic receptor-induced proarrhythmicity in the caval vein myocardium. <i>Acta Physiologica</i> , 2021, 231, e13597.	1.8	10
6	RNAseq shows an all-pervasive day-night rhythm in the transcriptome of the pacemaker of the heart. <i>Scientific Reports</i> , 2021, 11, 3565.	1.6	11
7	Structural and Functional Properties of Subsidiary Atrial Pacemakers in a Goat Model of Sinus Node Disease. <i>Frontiers in Physiology</i> , 2021, 12, 592229.	1.3	7
8	Common arterial trunk in a cat: a high-resolution morphological analysis with micro-computed tomography. <i>Journal of Veterinary Cardiology</i> , 2021, 34, 8-15.	0.3	3
9	Conserved Role of the Large Conductance Calcium-Activated Potassium Channel, $K_{Ca}1.1$, in Sinus Node Function and Arrhythmia Risk. <i>Circulation Genomic and Precision Medicine</i> , 2021, 14, e003144.	1.6	14
10	Intrinsic Electrical Remodeling Underlies Atrioventricular Block in Athletes. <i>Circulation Research</i> , 2021, 129, e1-e20.	2.0	23
11	Further insights into the molecular complexity of the human sinus node – The role of novel transcription factors and microRNAs. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 166, 86-104.	1.4	11
12	Repolarizing potassium currents in working myocardium of Japanese quail: a novel translational model for cardiac electrophysiology. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021, 255, 110919.	0.8	8
13	The clinical anatomy of the left atrial structures used as landmarks in ablation of arrhythmogenic substrates and cardiac invasive procedures. <i>Translational Research in Anatomy</i> , 2021, 23, 100102.	0.3	11
14	Remodeling of the Purkinje Network in Congestive Heart Failure in the Rabbit. <i>Circulation: Heart Failure</i> , 2021, 14, e007505.	1.6	11
15	Altered microRNA and mRNA profiles during heart failure in the human sinoatrial node. <i>Scientific Reports</i> , 2021, 11, 19328.	1.6	12
16	Micro-RNA 133a-3p induces repolarization abnormalities in atrial myocardium and modulates ventricular electrophysiology affecting I_{CaL} and I_{to} currents. <i>European Journal of Pharmacology</i> , 2021, 908, 174369.	1.7	5
17	Do human sinoatrial node cells have t-tubules?. <i>Translational Research in Anatomy</i> , 2021, 25, 100131.	0.3	0
18	MiR-486-3p and MiR-938 – Important Inhibitors of Pacemaking Ion Channels and/or Markers of Immune Cells. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11366.	1.3	2

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19	Identification of Key Small Non-coding MicroRNAs Controlling Pacemaker Mechanisms in the Human Sinus Node. <i>Journal of the American Heart Association</i> , 2020, 9, e016590.	1.6	17
20	Silencing miR-370-3p rescues funny current and sinus node function in heart failure. <i>Scientific Reports</i> , 2020, 10, 11279.	1.6	30
21	Impaired neuronal sodium channels cause intranodal conduction failure and reentrant arrhythmias in human sinoatrial node. <i>Nature Communications</i> , 2020, 11, 512.	5.8	39
22	Supraventricular Arrhythmias in Athletes: Basic Mechanisms and New Directions. <i>Physiology</i> , 2019, 34, 314-326.	1.6	11
23	Sinus node-like pacemaker mechanisms regulate ectopic pacemaker activity in the adult rat atrioventricular ring. <i>Scientific Reports</i> , 2019, 9, 11781.	1.6	10
24	Electrical Conduction System Remodeling in Streptozotocin-Induced Diabetes Mellitus Rat Heart. <i>Frontiers in Physiology</i> , 2019, 10, 826.	1.3	24
25	Mechanistic insights from targeted molecular profiling of repolarization alternans in the intact human heart. <i>Europace</i> , 2019, 21, 981-989.	0.7	11
26	Circadian rhythm of cardiac electrophysiology, arrhythmogenesis, and the underlying mechanisms. <i>Heart Rhythm</i> , 2019, 16, 298-307.	0.3	118
27	A sexy approach to pacemaking: differences in function and molecular make up of the sinoatrial node. <i>Histology and Histopathology</i> , 2019, 34, 1255-1268.	0.5	5
28	Structural and functional remodeling of the atrioventricular node with aging in rats: The role of hyperpolarization-activated cyclic nucleotide-gated and ryanodine 2 channels. <i>Heart Rhythm</i> , 2018, 15, 752-760.	0.3	23
29	The Pattern of mRNA Expression Is Changed in Sinoatrial Node from Goto-Kakizaki Type 2 Diabetic Rat Heart. <i>Journal of Diabetes Research</i> , 2018, 2018, 1-12.	1.0	15
30	TBX18 overexpression enhances pacemaker function in a rat subsidiary atrial pacemaker model of sick sinus syndrome. <i>Journal of Physiology</i> , 2018, 596, 6141-6155.	1.3	20
31	3D Ultrastructure of the Arrhythmogenic Purkinje Fibre-ventricular Junction in Rabbit Hearts. <i>European Cardiology Review</i> , 2018, 13, 122.	0.7	0
32	A Sexy Approach to Pacemaking. <i>Biophysical Journal</i> , 2017, 112, 403a.	0.2	0
33	Simulation of ventricular rate control during atrial fibrillation using ionic channel blockers. <i>Journal of Arrhythmia</i> , 2017, 33, 302-309.	0.5	7
34	Mechanism underlying impaired cardiac pacemaking rhythm during ischemia: A simulation study. <i>Chaos</i> , 2017, 27, 093934.	1.0	10
35	Targeting miR-423-5p Reverses Exercise Training-Induced HCN4 Channel Remodeling and Sinus Bradycardia. <i>Circulation Research</i> , 2017, 121, 1058-1068.	2.0	76
36	Altered profile of mRNA expression in atrioventricular node of streptozotocin-induced diabetic rats. <i>Molecular Medicine Reports</i> , 2017, 16, 3720-3730.	1.1	7

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37	High resolution 3-Dimensional imaging of the human cardiac conduction system from microanatomy to mathematical modeling. <i>Scientific Reports</i> , 2017, 7, 7188.	1.6	104
38	Computational assessment of the functional role of sinoatrial node exit pathways in the human heart. <i>PLoS ONE</i> , 2017, 12, e0183727.	1.1	32
39	Ca ²⁺ -Clock-Dependent Pacemaking in the Sinus Node Is Impaired in Mice with a Cardiac Specific Reduction in SERCA2 Abundance. <i>Frontiers in Physiology</i> , 2016, 7, 197.	1.3	15
40	3D anatomical reconstruction of human cardiac conduction system and simulation of bundle branch block after TAVI procedure. , 2016, 2016, 5583-5586.		3
41	Expression of connexin 43, ion channels and Ca ²⁺ -handling proteins in rat pulmonary vein cardiomyocytes. <i>Experimental and Therapeutic Medicine</i> , 2016, 12, 3233-3241.	0.8	7
42	Atrioventricular Node Dysfunction and Ion Channel Transcriptome in Pulmonary Hypertension. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	2.1	22
43	Insights from echocardiography, magnetic resonance imaging, and microcomputed tomography relative to the mid-myocardial left ventricular echogenic zone. <i>Echocardiography</i> , 2016, 33, 1546-1556.	0.3	19
44	Different Profile of mRNA Expression in Sinoatrial Node from Streptozotocin-Induced Diabetic Rat. <i>PLoS ONE</i> , 2016, 11, e0153934.	1.1	22
45	Morphological characteristics of the sinus node on postmortem tissue. <i>Folia Morphologica</i> , 2016, 75, 216-223.	0.4	4
46	From the Purkinje fibres to the ventricle: One dimensional computer simulation for the healthy and failing heart. , 2015, 2015, 34-7.		3
47	YIA1...TBX18 Biopacemaking Improves Beating Rate and Alters Gene Expression in Bradycardic Subsidiary Right Atrial Pacemaker Tissue. <i>Heart</i> , 2015, 101, A121.3-A123.	1.2	0
48	Molecular Mapping of Sinoatrial Node HCN Channel Expression in the Human Heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1219-1227.	2.1	72
49	Congestive Heart Failure Leads to Prolongation of the PR Interval and Atrioventricular Junction Enlargement and Ion Channel Remodelling in the Rabbit. <i>PLoS ONE</i> , 2015, 10, e0141452.	1.1	26
50	Comparison of formaldehyde and methanol fixatives used in the detection of ion channel proteins in isolated rat ventricular myocytes by immunofluorescence labelling and confocal microscopy. <i>Folia Morphologica</i> , 2015, 74, 258-261.	0.4	1
51	Funny current and sudden cardiac death. <i>Romanian Journal of Legal Medicine</i> , 2015, 23, 95-100.	0.3	0
52	Abstract 18171: HCN Channel Distribution in the Human Sinoatrial Node and Latent Atrial Pacemakers <i>(Best of Basic Science Abstract)</i>. <i>Circulation</i> , 2015, 132, .	1.6	0
53	Importance of Gradients in Membrane Properties and Electrical Coupling in Sinoatrial Node Pacing. <i>PLoS ONE</i> , 2014, 9, e94565.	1.1	39
54	Three-Dimensional Computer Model of the Right Atrium Including the Sinoatrial and Atrioventricular Nodes Predicts Classical Nodal Behaviours. <i>PLoS ONE</i> , 2014, 9, e112547.	1.1	20

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55	160â€¦Arrhythmia and Heart Failure Substrates in the Right Ventricular Outflow Tract of Adults with Surgically Repaired Tetralogy of Fallot. <i>Heart</i> , 2014, 100, A92.2-A92.	1.2	0
56	161â€¦ Novel Immunohistochemical and Structural Features of Subsidiary Atrial Pacemakers in the Goat; Relevance to Potential Sites for Biological Pacemakers. <i>Heart</i> , 2014, 100, A92.3-A93.	1.2	1
57	63 * Ageing is associated with myocardial disarray, changes in the expression of ion channels, gap junction proteins and Ca ²⁺ handling proteins with in the atrioventricular conduction axis. <i>Europace</i> , 2014, 16, iii24-iii24.	0.7	0
58	Chronic effects of mild hyperglycaemia on left ventricle transcriptional profile and structural remodelling in the spontaneously type 2 diabetic Goto-Kakizaki rat. <i>Heart Failure Reviews</i> , 2014, 19, 65-74.	1.7	30
59	Developing a novel comprehensive framework for the investigation of cellular and whole heart electrophysiology in the in situ human heart: Historical perspectives, current progress and future prospects. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 115, 252-260.	1.4	34
60	OO20 Novel role for the large-conductance Ca ²⁺ -activated K ⁺ channel (BKCa) as a determinant of cardiac function. , 2014, 9, e5-e6.		0
61	Ivabradine Protects Against Ventricular Arrhythmias in Acute Myocardial Infarction in the Rat. <i>Journal of Cellular Physiology</i> , 2014, 229, 813-823.	2.0	31
62	Molecular Basis of Arrhythmias Associated with the Cardiac Conduction System. , 2014, , 19-34.		3
63	Structural and functional alterations in the atrioventricular node and atrioventricular ring tissue in ischaemia-induced heart failure. <i>Histology and Histopathology</i> , 2014, 29, 891-902.	0.5	5
64	The Anatomy of the Conduction System: Implications for the Clinical Cardiologist. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 187-196.	1.1	35
65	Connexins and the atrioventricular node. <i>Heart Rhythm</i> , 2013, 10, 297-304.	0.3	70
66	Structure, function and clinical relevance of the cardiac conduction system, including the atrioventricular ring and outflow tract tissues. , 2013, 139, 260-288.		156
67	Simulation study of complex action potential conduction in atrioventricular node. , 2013, 2013, 6850-3.		3
68	Characterization of a right atrial subsidiary pacemaker and acceleration of the pacing rate by HCN over-expression. <i>Cardiovascular Research</i> , 2013, 100, 160-169.	1.8	23
69	Viewpoint: Is the resting bradycardia in athletes the result of remodeling of the sinoatrial node rather than high vagal tone?. <i>Journal of Applied Physiology</i> , 2013, 114, 1351-1355.	1.2	64
70	Functional, Anatomical, and Molecular Investigation of the Cardiac Conduction System and Arrhythmogenic Atrioventricular Ring Tissue in the Rat Heart. <i>Journal of the American Heart Association</i> , 2013, 2, e000246.	1.6	50
71	Reply to Matelot, Schnell, Kervio, Thillaye du Boullay, and Carre. <i>Journal of Applied Physiology</i> , 2013, 114, 1757-1757.	1.2	0
72	Visualization and quantification of whole rat heart laminar structure using high-spatial resolution contrast-enhanced MRI. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H287-H298.	1.5	68

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73	Epistatic Rescue of Nkx2.5 Adult Cardiac Conduction Disease Phenotypes by Prospero-Related Homeobox Protein 1 and HDAC3. <i>Circulation Research</i> , 2012, 111, e19-31.	2.0	32
74	Postnatal development of transmural gradients in expression of ion channels and Ca ²⁺ -handling proteins in the ventricle. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 145-155.	0.9	17
75	Molecular architecture of the human specialised atrioventricular conduction axis. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 642-651.	0.9	97
76	Anatomical and molecular mapping of the left and right ventricular His-Purkinje conduction networks. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 689-701.	0.9	85
77	Changes in the expression of ion channels, connexins and Ca ²⁺ -handling proteins in the sino-atrial node during postnatal development. <i>Experimental Physiology</i> , 2011, 96, 426-438.	0.9	17
78	Ageing-dependent remodelling of ion channel and Ca ²⁺ clock genes underlying sino-atrial node pacemaking. <i>Experimental Physiology</i> , 2011, 96, 1163-1178.	0.9	92
79	3D virtual human atria: A computational platform for studying clinical atrial fibrillation. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 107, 156-168.	1.4	143
80	Computer Three-Dimensional Anatomical Reconstruction of the Human Sinus Node and a Novel Paranodal Area. <i>Anatomical Record</i> , 2011, 294, 970-979.	0.8	89
81	Changes in Ion Channel Gene Expression Underlying Heart Failure-Induced Sinoatrial Node Dysfunction. <i>Circulation: Heart Failure</i> , 2011, 4, 496-508.	1.6	52
82	TGF- β ¹ -Mediated Fibrosis and Ion Channel Remodeling Are Key Mechanisms in Producing the Sinus Node Dysfunction Associated With <i>SCN5A</i> Deficiency and Aging. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011, 4, 397-406.	2.1	99
83	Molecular Basis of the Electrical Activity of the Atrioventricular Junction and Purkinje Fibres. , 2011, , 211-230.		1
84	The Anatomy and Physiology of the Sinoatrial Node-A Contemporary Review. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2010, 33, 1392-1406.	0.5	166
85	Structural remodelling of the sinoatrial node in obese old rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 653-662.	0.9	82
86	Molecular Architecture of the Human Sinus Node. <i>Circulation</i> , 2009, 119, 1562-1575.	1.6	344
87	Ion Channel Transcript Expression at the Rabbit Atrioventricular Conduction Axis. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2009, 2, 305-315.	2.1	41
88	The anatomy of the cardiac conduction system. <i>Clinical Anatomy</i> , 2009, 22, 99-113.	1.5	175
89	P2 purinergic receptor mRNA in rat and human sinoatrial node and other heart regions. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2009, 379, 541-549.	1.4	45
90	Human connexin31.9, unlike its orthologous protein connexin30.2 in the mouse, is not detectable in the human cardiac conduction system. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 553-559.	0.9	41

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91	Distribution of the pacemaker HCN4 channel mRNA and protein in the rabbit sinoatrial node. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 221-227.	0.9	79
92	Mechanisms of Transition from Normal to Reentrant Electrical Activity in a Model of Rabbit Atrial Tissue: Interaction of Tissue Heterogeneity and Anisotropy. <i>Biophysical Journal</i> , 2009, 96, 798-817.	0.2	67
93	The extent of the specialized atrioventricular ring tissues. <i>Heart Rhythm</i> , 2009, 6, 672-680.	0.3	112
94	Effects of streptozotocin-induced diabetes on connexin43 mRNA and protein expression in ventricular muscle. <i>Molecular and Cellular Biochemistry</i> , 2008, 319, 105-114.	1.4	41
95	Characterization of the effects of Ryanodine, TTX, E-4031 and 4-AP on the sinoatrial and atrioventricular nodes. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 96, 452-464.	1.4	29
96	Role of pacemaking current in cardiac nodes: Insights from a comparative study of sinoatrial node and atrioventricular node. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 96, 294-304.	1.4	49
97	Sarcolemmal Ca ²⁺ -ATPase ability to transport Ca ²⁺ gradually diminishes after myocardial infarction in the rat. <i>Cardiovascular Research</i> , 2008, 81, 546-554.	1.8	21
98	Computer Three-Dimensional Reconstruction of the Atrioventricular Node. <i>Circulation Research</i> , 2008, 102, 975-985.	2.0	106
99	The Sinoatrial Node Is Still Setting the Pace 100 Years After its Discovery. <i>Circulation Research</i> , 2007, 100, 1543-1545.	2.0	18
100	Organisation of the mouse sinoatrial node: structure and expression of HCN channels. <i>Cardiovascular Research</i> , 2007, 73, 729-738.	1.8	153
101	New Insights Into Pacemaker Activity. <i>Circulation</i> , 2007, 115, 1921-1932.	1.6	396
102	Calcium Cycling Protein Density and Functional Importance to Automaticity of Isolated Sinoatrial Nodal Cells Are Independent of Cell Size. <i>Circulation Research</i> , 2007, 100, 1723-1731.	2.0	95
103	Expression of Kir2.1 and Kir6.2 transgenes under the control of the $\hat{I}\pm$ -MHC promoter in the sinoatrial and atrioventricular nodes in transgenic mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 855-867.	0.9	14
104	What do we learn from double Cx40/Cx45-deficient mice about cardiac morphogenetic defects and conduction abnormalities?. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 774-777.	0.9	4
105	Extended atrial conduction system characterised by the expression of the HCN4 channel and connexin45. <i>Cardiovascular Research</i> , 2006, 72, 271-281.	1.8	94
106	Postganglionic nerve stimulation induces temporal inhibition of excitability in rabbit sinoatrial node. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H612-H623.	1.5	68
107	Differential Expression of Ion Channel Transcripts in Atrial Muscle and Sinoatrial Node in Rabbit. <i>Circulation Research</i> , 2006, 99, 1384-1393.	2.0	134
108	Distribution and Functional Characterization of Equilibrative Nucleoside Transporter-4, a Novel Cardiac Adenosine Transporter Activated at Acidic pH. <i>Circulation Research</i> , 2006, 99, 510-519.	2.0	181

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109	Localization of Na ⁺ Channel Isoforms at the Atrioventricular Junction and Atrioventricular Node in the Rat. <i>Circulation</i> , 2006, 114, 1360-1371.	1.6	65
110	Imaging the heart: computer 3-dimensional anatomic models of the heart. <i>Journal of Electrocardiology</i> , 2005, 38, 113-120.	0.4	22
111	Computer Three-Dimensional Reconstruction of the Sinoatrial Node. <i>Circulation</i> , 2005, 111, 846-854.	1.6	163
112	Distribution of atrial natriuretic peptide and its effects on contraction and intracellular calcium in ventricular myocytes from streptozotocin-induced diabetic rat. <i>Peptides</i> , 2005, 26, 691-700.	1.2	16
113	Requirement of neuronal- and cardiac-type sodium channels for murine sinoatrial node pacemaking. <i>Journal of Physiology</i> , 2004, 559, 835-848.	1.3	174
114	Structure-function relationship in the AV junction. <i>The Anatomical Record</i> , 2004, 280A, 952-965.	2.3	65
115	Cellular Mechanisms of Sinoatrial Activity. , 2004, , 192-202.		6
116	Sophisticated Architecture is Required for the Sinoatrial Node to Perform Its Normal Pacemaker Function. <i>Journal of Cardiovascular Electrophysiology</i> , 2003, 14, 104-106.	0.8	59
117	Site of Origin and Molecular Substrate of Atrioventricular Junctional Rhythm in the Rabbit Heart. <i>Circulation Research</i> , 2003, 93, 1102-1110.	2.0	144
118	STRUCTURE-FUNCTION RELATIONSHIPS OF THE SINOATRIAL NODE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 3621-3629.	0.7	2
119	An unexpected requirement for brain-type sodium channels for control of heart rate in the mouse sinoatrial node. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3507-3512.	3.3	185
120	Heterogeneous Expression of Ca ²⁺ Handling Proteins in Rabbit Sinoatrial Node. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 311-324.	1.3	88
121	Distribution of the Muscarinic K ⁺ Channel Proteins Kir3.1 and Kir3.4 in the Ventricle, Atrium, and Sinoatrial Node of Heart. <i>Journal of Histochemistry and Cytochemistry</i> , 2001, 49, 1221-1234.	1.3	94
122	Presence of the Kv1.5 K ⁺ Channel in the Sinoatrial Node. <i>Journal of Histochemistry and Cytochemistry</i> , 2000, 48, 769-780.	1.3	36
123	Connexin45, a Major Connexin of the Rabbit Sinoatrial Node, Is Co-expressed with Connexin43 in a Restricted Zone at the Nodal-Crista Terminalis Border. <i>Journal of Histochemistry and Cytochemistry</i> , 1999, 47, 907-918.	1.3	140
124	Comparison of Ion Channel Gene Expression in the Sinus Node of the Human, Rabbit, Rat and Mouse. , 0, , .		0