Diego Franco

List of Publications by Year
in descending order

143 papers	4,280 citations	118326 32 h-index	103158 62 g-index
157 all docs	157 docs citations	157 times ranked	5078 citing authors

#	Article	IF	Citations
1	miRNAs in Heart Development and Disease. International Journal of Molecular Sciences, 2024, 25, 1673.	4.5	9
2	Unraveling the Signaling Dynamics of Small Extracellular Vesicles in Cardiac Diseases. Cells, 2024, 13, 265.	4.8	0
3	Lp(a) Levels in Relatives of Patients with Acute Coronary Syndrome and Elevated Lp(a): HER(a) Study. Journal of Clinical Medicine, 2024, 13, 2256.	2.6	2
4	Exploring the role non-coding RNAs during myocardial cell fate. Biochemical Society Transactions, 2024, 52, 1339-1348.	4.2	0
5	MEF2C Directly Interacts with Pre-miRNAs and Distinct RNPs to Post-Transcriptionally Regulate miR-23a-miR-27a-miR-24-2 microRNA Cluster Member Expression. Non-coding RNA, 2024, 10, 32.	2.3	1
6	miR-1 as a Key Epigenetic Regulator in Early Differentiation of Cardiac Sinoatrial Region. International Journal of Molecular Sciences, 2024, 25, 6608.	4.5	0
7	The Role of ncRNAs in Cardiac Infarction and Regeneration. Journal of Cardiovascular Development and Disease, 2023, 10, 123.	1.5	5
8	LncRNAs and CircRNAs in Endoplasmic Reticulum Stress: A Promising Target for Cardiovascular Disease?. International Journal of Molecular Sciences, 2023, 24, 9888.	4.5	5
9	Comparative Analysis of Heart Regeneration: Searching for the Key to Heal the Heartâ€"Part I: Experimental Injury Models to Study Cardiac Regeneration. Journal of Cardiovascular Development and Disease, 2023, 10, 325.	1.5	2
10	Understanding Epicardial Cell Heterogeneity during Cardiogenesis and Heart Regeneration. Journal of Cardiovascular Development and Disease, 2023, 10, 376.	1.5	1
11	Comparative Analysis of Heart Regeneration: Searching for the Key to Heal the Heartâ€"Part II: Molecular Mechanisms of Cardiac Regeneration. Journal of Cardiovascular Development and Disease, 2023, 10, 357.	1.5	4
12	Novel Insights into the Molecular Mechanisms Governing Embryonic Epicardium Formation. Journal of Cardiovascular Development and Disease, 2023, 10, 440.	1.5	1
13	Deciphering the Intricate Molecular Bases of Atrial Fibrillation. Hearts, 2023, 4, 78-80.	0.3	0
14	Deciphering the Involvement of the Epicardium in Cardiac Diseases. Hearts, 2023, 4, 81-93.	0.3	1
15	Identification of atrialâ€enriched lncRNA <i>Walras</i> linked to cardiomyocyte cytoarchitecture and atrial fibrillation. FASEB Journal, 2022, 36, .	0.7	6
16	The Role of Bmp- and Fgf Signaling Modulating Mouse Proepicardium Cell Fate. Frontiers in Cell and Developmental Biology, 2022, 9, .	3.7	2
17	miR-16-5p Suppression Protects Human Cardiomyocytes against Endoplasmic Reticulum and Oxidative Stress-Induced Injury. International Journal of Molecular Sciences, 2022, 23, 1036.	4.5	22
18	Molecular Mechanisms of lncRNAs in the Dependent Regulation of Cancer and Their Potential Therapeutic Use. International Journal of Molecular Sciences, 2022, 23, 764.	4.5	18

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19	Dynamic MicroRNA Expression Profiles During Embryonic Development Provide Novel Insights Into Cardiac Sinus Venosus/Inflow Tract Differentiation. Frontiers in Cell and Developmental Biology, 2022, 9, .	3.7	7
20	Genomic and Non-Genomic Regulatory Mechanisms of the Cardiac Sodium Channel in Cardiac Arrhythmias. International Journal of Molecular Sciences, 2022, 23, 1381.	4.5	11
21	Post-Transcriptional Regulation of Molecular Determinants during Cardiogenesis. International Journal of Molecular Sciences, 2022, 23, 2839.	4.5	13
22	Regulation of Epicardial Cell Fate during Cardiac Development and Disease: An Overview. International Journal of Molecular Sciences, 2022, 23, 3220.	4.5	10
23	New Insights into the Roles of lncRNAs as Modulators of Cytoskeleton Architecture and Their Implications in Cellular Homeostasis and in Tumorigenesis. Non-coding RNA, 2022, 8, 28.	2.3	8
24	Inhibition of RhoA and Cdc42 by miR-133a Modulates Retinoic Acid Signalling during Early Development of Posterior Cardiac Tube Segment. International Journal of Molecular Sciences, 2022, 23, 4179.	4.5	6
25	Pitx2 Differentially Regulates the Distinct Phases of Myogenic Program and Delineates Satellite Cell Lineages During Muscle Development. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	2
26	LncRNA H19 Impairs Chemo and Radiotherapy in Tumorigenesis. International Journal of Molecular Sciences, 2022, 23, 8309.	4.5	8
27	Healing the Broken Hearts: A Glimpse on Next Generation Therapeutics. Hearts, 2022, 3, 96-116.	0.3	1
28	Comparative Analysis of Non-Coding RNA Transcriptomics in Heart Failure. Biomedicines, 2022, 10, 3076.	3.6	6
29	Cardiac Development: A Glimpse on Its Translational Contributions. Hearts, 2021, 2, 87-118.	0.3	2
30	Non-Coding RNAs in Retinoic Acid as Differentiation and Disease Drivers. Non-coding RNA, 2021, 7, 13.	2.3	5
31	MiRNAs and Muscle Regeneration: Therapeutic Targets in Duchenne Muscular Dystrophy. International Journal of Molecular Sciences, 2021, 22, 4236.	4.5	23
32	Novel PITX2 Homeodomain-Contained Mutations from ATRIAL Fibrillation Patients Deteriorate Calcium Homeostasis. Hearts, 2021, 2, 251-269.	0.3	5
33	Differential Spatio-Temporal Regulation of T-Box Gene Expression by microRNAs during Cardiac Development. Journal of Cardiovascular Development and Disease, 2021, 8, 56.	1.5	3
34	Non-Coding RNAs in the Cardiac Action Potential and Their Impact on Arrhythmogenic Cardiac Diseases. Hearts, 2021, 2, 307-330.	0.3	2
35	Deletion of the Wilmsâ€™ Tumor Suppressor Gene in the Cardiac Troponin-T Lineage Reveals Novel Functions of WT1 in Heart Development. Frontiers in Cell and Developmental Biology, 2021, 9, .	3.7	11
36	Understanding PITX2-Dependent Atrial Fibrillation Mechanisms through Computational Models. International Journal of Molecular Sciences, 2021, 22, 7681.	4.5	5

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37	Muscle Satellite Cell Heterogeneity: Does Embryonic Origin Matter?. Frontiers in Cell and Developmental Biology, 2021, 9, .	3.7	15
38	Molecular Determinants of Cardiac Arrhythmias. Hearts, 2020, 1, 146-148.	0.3	1
39	Genetics and Epigenetics of Atrial Fibrillation. International Journal of Molecular Sciences, 2020, 21, 5717.	4.5	52
40	MiR-195 enhances cardiomyogenic differentiation of the proepicardium/septum transversum by Smurf1 and Foxp1 modulation. Scientific Reports, 2020, 10, .	3.7	18
41	Non-coding RNAs and Atrial Fibrillation. Advances in Experimental Medicine and Biology, 2020, , 311-325.	0.0	14
42	Regulation of SCN5A by Non-coding RNAs in the Brugada Syndrome Context. Journal of Cardiology and Cardiovascular Sciences, 2020, 4, 65-70.	2.5	1
43	miRNAs and Muscle Stem Cells. , 2020, , .		1
44	Skeletal Muscle Progenitor Specification During Development. , 2019, , .		0
45	Role of SCN5A coding and non-coding sequences in Brugada syndrome onset: What's behind the scenes?. Biomedical Journal, 2019, 42, 252-260.	3.8	16
46	Differential chamber-specific expression and regulation of long non-coding RNAs during cardiac development. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 194435.	2.6	21
47	Novel regulatory pathways modulating cardiac contractile function: fibroblast to myocardial crosstalk via extracellular vesicles and non-coding RNAs. Non-coding RNA Investigation, 2019, 3, 3-3.	0.0	0
48	The Role of Non-Coding RNA in Congenital Heart Diseases. Journal of Cardiovascular Development and Disease, 2019, 6, 15.	1.5	28
49	The 4q25 variant rs13143308T links risk of atrial fibrillation to defective calcium homoeostasis. Cardiovascular Research, 2019, 115, 578-589.	5.6	35
50	Genetics of Atrial Fibrilation: In Search of Novel Therapeutic Targets. Cardiovascular & Hematological Disorders Drug Targets, 2019, 19, 183-194.	0.6	6
51	PITX2 Enhances the Regenerative Potential of Dystrophic Skeletal Muscle Stem Cells. Stem Cell Reports, 2018, 10, 1398-1411.	4.7	18
52	Lifestyle Impact and Genotype-Phenotype Correlations in Brugada Syndrome. , 2018, , 285-290.		0
53	Functional Role of Non-Coding RNAs during Epithelial-To-Mesenchymal Transition. Non-coding RNA, 2018, 4, 14.	2.3	39
54	The role of long non-coding RNAs in cardiac development and disease. AIMS Genetics, 2018, 05, 124-140.	1.4	22

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55	PITX2 (Pituitary Homeobox Gene 2). , 2018, , 4024-4032.		0
56	Cardiac looping and laterality. , 2018, , .		0
57	Atrial Spceific Pitx2 Insufficiencyincreases the Frequency of Calcium Sparks, Waves, and After-Depolarizations in Mouse Atrial Myocytes. Biophysical Journal, 2017, 112, 400a.	0.4	0
58	Multiple Roles of Pitx2 in Cardiac Development and Disease. Journal of Cardiovascular Development and Disease, 2017, 4, 16.	1.5	31
59	More than Just a Simple Cardiac Envelope; Cellular Contributions of the Epicardium. Frontiers in Cell and Developmental Biology, 2017, 5, .	3.7	20
60	Pitx2 in Embryonic and Adult Myogenesis. Frontiers in Cell and Developmental Biology, 2017, 5, .	3.7	40
61	Hyperthyroidism, but not hypertension, impairs PITX2 expression leading to Wnt-microRNA-ion channel remodeling. PLoS ONE, 2017, 12, e0188473.	2.5	20
62	Current Perspectives in Cardiac Laterality. Journal of Cardiovascular Development and Disease, 2016, 3, 34.	1.5	15
63	Congenital coronary artery anomalies: a bridge from embryology to anatomy and pathophysiologyâ€"a position statement of the development, anatomy, and pathology ESC Working Group. Cardiovascular Research, 2016, 109, 204-216.	5.6	158
64	Post-transcriptional Regulation by Proteins and Non-coding RNAs. , 2016, , 153-171.		0
65	Pitx2 impairs calcium handling in a dose-dependent manner by modulating Wnt signalling. Cardiovascular Research, 2016, 109, 55-66.	5.6	71
66	Gene regulatory networks in atrial fibrillation. World Journal of Medical Genetics, 2016, 6, 1.	0.1	2
67	PITX2 (Pituitary Homeobox Gene 2). , 2016, , 1-10.		0
68	Reciprocal repression between Fgf8 and miR-133 regulates cardiac induction through Bmp2 signaling. Data in Brief, 2015, 5, 59-64.	1.4	11
69	MiRâ€23b and miRâ€199a impair epithelialâ€toâ€mesenchymal transition during atrioventricular endocardial cushion formation. Developmental Dynamics, 2015, 244, 1259-1275.	1.7	27
70	A MicroRNA-Transcription Factor Blueprint for Early Atrial Arrhythmogenic Remodeling. BioMed Research International, 2015, 2015, 1-13.	2.7	22
71	miR-27 and miR-125 Distinctly Regulate Muscle-Enriched Transcription Factors in Cardiac and Skeletal Myocytes. BioMed Research International, 2015, 2015, 1-6.	2.7	26
72	A <i>Pitx2</i>-MicroRNA Pathway Modulates Cell Proliferation in Myoblasts and Skeletal-Muscle Satellite Cells and Promotes Their Commitment to a Myogenic Cell Fate. Molecular and Cellular Biology, 2015, 35, 2892-2909.	2.5	51

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73	Regulation of SCN5A by microRNAs: miR-219 modulates SCN5A transcript expression and the effects of flecainide intoxication in mice. Heart Rhythm, 2015, 12, 1333-1342.	0.8	36
74	Negative Fgf8-Bmp2 feed-back is regulated by miR-130 during early cardiac specification. Developmental Biology, 2015, 406, 63-73.	1.9	31
75	Long-range regulatory interactions at the 4q25 atrial fibrillation risk locus involve PITX2c and ENPEP. BMC Biology, 2015, 13, .	4.0	53
76	Absence of Family History and Phenotypeâ€"Genotype Correlation in Pediatric Brugada Syndrome: More Burden to Bear in Clinical and Genetic Diagnosis. Pediatric Cardiology, 2015, 36, 1090-1096.	1.3	8
77	Analysis of microRNA Microarrays in Cardiogenesis. Methods in Molecular Biology, 2015, , 207-221.	0.0	8
78	Expression patterns and immunohistochemical localization of PITX2B transcription factor in the developing mouse heart. International Journal of Developmental Biology, 2015, 59, 247-254.	1.3	7
79	Contribution of miRNAs to ion-channel remodelling in atrial fibrillation. World Journal of Hypertension, 2015, 5, 6.	0.3	1
80	An Introduction to the ESC Working Group on Development, Anatomy and Pathology. Journal of Cardiovascular Development and Disease, 2014, 1, 37-40.	1.5	0
81	miR-27b and miR-23b Modulate Cardiomyocyte Differentiation from Mouse Embryonic Stem Cells. Journal of Cardiovascular Development and Disease, 2014, 1, 41-51.	1.5	0
82	Identification of regulatory elements directing miR-23aâ€"miR-27aâ€"miR-24-2 transcriptional regulation in response to muscle hypertrophic stimuli. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 885-897.	2.6	30
83	Homeobox transcription factor Pitx2: The rise of an asymmetry gene in cardiogenesis and arrhythmogenesis. Trends in Cardiovascular Medicine, 2014, 24, 23-31.	7.2	40
84	Pitx2c Is Reactivated in the Failing Myocardium and Stimulates Myf5 Expression in Cultured Cardiomyocytes. PLoS ONE, 2014, 9, e90561.	2.5	14
85	Wiring the developing heart: a serious matter for adulthood. Cardiovascular Research, 2013, 97, 4-5.	5.6	0
86	Functional suppression of Kcnq1 leads to early sodium channel remodelling and cardiac conduction system dysmorphogenesis. Cardiovascular Research, 2013, 98, 504-514.	5.6	8
87	Comparative Analyses of MicroRNA Microarrays during Cardiogenesis: Functional Perspectives. Microarrays (Basel, Switzerland), 2013, 2, 81-96.	1.6	7
88	Resolving cell lineage contributions to the ventricular conduction system with a Cx40â€GFP allele: A dual contribution of the first and second heart fields. Developmental Dynamics, 2013, 242, 665-677.	1.7	31
89	Transgenic Insights Linking Pitx2 and Atrial Arrhythmias. Frontiers in Physiology, 2012, 3, .	3.0	15
90	Cardiac Conduction System Anomalies and Sudden Cardiac Death: Insights from Murine Models. Frontiers in Physiology, 2012, 3, .	3.0	4

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91	MicroRNA profiling during mouse ventricular maturation: a role for miR-27 modulating Mef2c expression. Cardiovascular Research, 2011, 89, 98-108.	5.6	97
92	Transcriptional Networks of Embryonic Stem Cell-Derived Cardiomyogenesis. , 2011, , .		1
93	Pitx2c modulates Pax3+/Pax7+ cell populations and regulates Pax3 expression by repressing miR27 expression during myogenesis. Developmental Biology, 2011, 357, 165-178.	1.9	46
94	<i>PITX2</i> Insufficiency Leads to Atrial Electrical and Structural Remodeling Linked to Arrhythmogenesis. Circulation: Cardiovascular Genetics, 2011, 4, 269-279.	4.2	215
95	Modulation of conductive elements by Pitx2 and their impact on atrial arrhythmogenesis. Cardiovascular Research, 2011, 91, 223-231.	5.6	19
96	Contemporary cardiogenesis: new insights into heart development. Cardiovascular Research, 2011, 91, 183-184.	5.6	3
97	Biphasic Development of the Mammalian Ventricular Conduction System. Circulation Research, 2010, 107, 153-161.	12.8	103
98	Developmental Expression Profile of the CXCL12Î³ Isoform: Insights Into its Tissueâ€Specific Role. Anatomical Record, 2009, 292, 891-901.	1.9	4
99	Common Atrium. , 2009, , 394-395.		0
100	Tissue distribution and subcellular localization of the cardiac sodium channel during mouse heart development. Cardiovascular Research, 2008, 78, 45-52.	5.6	37
101	The CXCL12Î³ Chemokine Displays Unprecedented Structural and Functional Properties that Make It a Paradigm of Chemoattractant Proteins. PLoS ONE, 2008, 3, e2543.	2.5	59
102	Cardiovascular development: towards biomedical applicability. Cellular and Molecular Life Sciences, 2007, 64, 683-691.	5.6	10
103	Left and right ventricular contributions to the formation of the interventricular septum in the mouse heart. Developmental Biology, 2006, 294, 366-375.	1.9	76
104	Protein distribution of Kcnq1, Kcnh2, and Kcne3 potassium channel subunits during mouse embryonic development. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 304-315.	2.4	14
105	Cardiovascular development: Toward biomedical applicability. Developmental Dynamics, 2006, 235, 843-845.	1.7	2
106	Pitx2c overexpression promotes cell proliferation and arrests differentiation in myoblasts. Developmental Dynamics, 2006, 235, 2930-2939.	1.7	49
107	FGF signalling in the cardiac fields. Cardiovascular Research, 2006, 71, 1-3.	5.6	2
108	Overexpression of Bone Morphogenetic Protein 10 in Myocardium Disrupts Cardiac Postnatal Hypertrophic Growth. Journal of Biological Chemistry, 2006, 281, 27481-27491.	2.3	52

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109	Regulatory Mechanisms of Cardiac Development and Repair. Cardiovascular & Hematological Disorders Drug Targets, 2006, 6, 99-110.	0.6	10
110	Temporal and spatial expression pattern of ?1 sodium channel subunit during heart development. Cardiovascular Research, 2005, 65, 842-850.	5.6	24
111	Predominant fusion of bone marrow-derived cardiomyocytes. Cardiovascular Research, 2005, 68, 387-393.	5.6	18
112	Unveiling the transcriptional control of the developing cardiac conduction system. Cardiovascular Research, 2004, 62, 444-446.	5.6	1
113	Regional expression of L-type calcium channel subunits during cardiac development. Developmental Dynamics, 2004, 230, 131-136.	1.7	15
114	BMP10 is essential for maintaining cardiac growth during murine cardiogenesis. Development (Cambridge), 2004, 131, 2219-2231.	3.0	419
115	The Role of Pitx2 during Cardiac Development Linking Leftâ€"Right Signaling and Congenital Heart Diseases. Trends in Cardiovascular Medicine, 2003, 13, 157-163.	7.2	138
116	Cardia bifida, defective heart development and abnormal neural crest migration in embryos lacking hypoxia-inducible factor-1Î±. Cardiovascular Research, 2003, 60, 569-579.	5.6	157
117	Molecular Diversity of the Developing and Adult Myocardium: Implications for Tissue Targeting. Current Drug Targets Cardiovascular & Haematological Disorders, 2003, 3, 227-239.	2.4	5
118	RegulaciÃ³n de la expresiÃ³n gÃ©nica en el miocardio durante el desarrollo cardÃaco. Revista Espanola De Cardiologia, 2002, 55, 167-184.	1.1	14
119	Species-specific differences of myosin content in the developing cardiac chambers of fish, birds, and mammals. The Anatomical Record, 2002, 268, 27-37.	0.0	18
120	The Development of the Ventricular Conduction System: Transgenic Insights. Progress in Experimental Cardiology, 2002, , 45-54.	0.0	0
121	Pitx2 Expression Defines a Left Cardiac Lineage of Cells: Evidence for Atrial and Ventricular Molecular Isomerism in the iv/iv Mice. Developmental Biology, 2001, 231, 252-264.	1.9	137
122	Differential expression of KvLQT1 and its regulator IsK in mouse epithelia. American Journal of Physiology - Cell Physiology, 2001, 280, C359-C372.	4.4	93
123	MLC3F transgene expression iniv mutant mice reveals the importance of left-right signalling pathways for the acquisition of left and right atrial but not ventricular compartment identity. Developmental Dynamics, 2001, 221, 206-215.	1.7	24
124	Molecular characterization of the ventricular conduction system in the developing mouse heart: topographical correlation in normal and congenitally malformed hearts. Cardiovascular Research, 2001, 49, 417-429.	5.6	50
125	Divergent expression of delayed rectifier K+ channel subunits during mouse heart development. Cardiovascular Research, 2001, 52, 65-75.	5.6	66
126	Methods on In Situ Hybridization, Immunohistochemistry and ï¿½-Galactosidase Reporter Gene Detection. European Journal of Morphology, 2001, 39, 3-25.	0.9	21

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127	Methods on In Situ Hybridization, Immunohistochemistry and ï¿½-Galactosidase Reporter Gene Detection. European Journal of Morphology, 2001, 39, 169-191.	0.9	26
128	Suppression of atrial myosin gene expression occurs independently in the left and right ventricles of the developing mouse heart. , 2000, 217, 75-85.		42
129	An atrioventricular canal domain defined by cardiac troponin I transgene expression in the embryonic myocardium. Anatomy and Embryology, 2000, 202, 95-101.	0.0	24
130	Radio-Isotopic In Situ Hybridization on Tissue Sections: Practical Aspects and Quantification. , 2000, , 97-115.		17
131	Chamber Formation and Morphogenesis in the Developing Mammalian Heart. Developmental Biology, 2000, 223, 266-278.	1.9	423
132	Chamber Formation and Morphogenesis in the Developing Mammalian Heart. Developmental Biology, 2000, 225, 266.	1.9	2
133	RNA Content Differs in Slow and Fast Muscle Fibers: Implications for Interpretation of Changes in Muscle Gene Expression. Journal of Histochemistry and Cytochemistry, 1999, 47, 995-1004.	1.5	43
134	Myosin light chain 2a and 2v identifies the embryonic outflow tract myocardium in the developing rodent heart. The Anatomical Record, 1999, 254, 135-146.	0.0	56
135	Regionalization of Transcriptional Potential in the Myocardium. , 1999, , 333-355.		12
136	Regionalization of Transcriptional Potential in the Myocardium: â€˜Cardiosensorâ€™ Transgenic Mice. Developments in Cardiovascular Medicine, 1999, , 67-73.	0.0	0
137	The Transcriptional Building Blocks of the Heart. Developments in Cardiovascular Medicine, 1999, , 7-16.	0.0	0
138	Normal Development of the Outflow Tract in the Rat. Circulation Research, 1998, 82, 464-472.	12.8	122
139	Regionalized Transcriptional Domains of Myosin Light Chain 3f Transgenes in the Embryonic Mouse Heart: Morphogenetic Implications. Developmental Biology, 1997, 188, 17-33.	1.9	58
140	Expression of the cholinergic signal-transduction pathway components during embryonic rat heart development. , 1997, 248, 110-120.		11
141	Anomalous origin of the left coronary artery from the nonfacing aortic sinus: A study in the Syrian hamster. Cardiovascular Pathology, 1993, 2, 35-39.	1.4	7
142	Evidence for a quantitative genetic influence on the formation of aortic valves with two leaflets in the Syrian hamster. Cardiology in the Young, 1993, 3, 132-140.	0.9	25
143	Blood Supply to the Interventricular Septum of the Heart in Rodents with Intramyocardial Coronary Arteries. Acta Zoologica, 1992, 73, 223-229.	1.1	19