

Michiko Watanabe

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,570
citations

23
h-index

39
g-index

78
ext. papers

1,710
ext. citations

4
avg, IF

3.99
L-index

#	Paper	IF	Citations
60	Glial cells express N-CAM/D2-CAM-like polypeptides in vitro. <i>Nature</i> , 1985 , 316, 725-8	50.4	179
59	Mouse and human phenotypes indicate a critical conserved role for ERK2 signaling in neural crest development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17115-20	11.5	134
58	The pros and cons of apoptosis assays for use in the study of cells, tissues, and organs. <i>Microscopy and Microanalysis</i> , 2002 , 8, 375-91	0.5	103
57	Formation of the retinal ganglion cell and optic fiber layers. <i>Journal of Neurobiology</i> , 1991 , 22, 85-96		72
56	Changing activation sequence in the embryonic chick heart. Implications for the development of the His-Purkinje system. <i>Circulation Research</i> , 1997 , 81, 470-6	15.7	71
55	Cited2, a coactivator of HNF4alpha, is essential for liver development. <i>EMBO Journal</i> , 2007 , 26, 4445-56	13	57
54	Hypoxia-responsive signaling regulates the apoptosis-dependent remodeling of the embryonic avian cardiac outflow tract. <i>Developmental Biology</i> , 2004 , 273, 285-96	3.1	56
53	Measuring hemodynamics in the developing heart tube with four-dimensional gated Doppler optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2010 , 15, 066022	3.5	50
52	Blood flow dynamics of one cardiac cycle and relationship to mechanotransduction and trabeculation during heart looping. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H879-91	5.2	49
51	Differential expression of PSA-NCAM and HNK-1 epitopes in the developing cardiac conduction system of the chick. <i>Developmental Dynamics</i> , 1997 , 209, 182-95	2.9	47
50	Differential levels of tissue hypoxia in the developing chicken heart. <i>Developmental Dynamics</i> , 2006 , 235, 115-23	2.9	47
49	Ethanol exposure alters early cardiac function in the looping heart: a mechanism for congenital heart defects?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H414-21	5.2	46
48	Partial rescue of defects in Cited2-deficient embryos by HIF-1alpha heterozygosity. <i>Developmental Biology</i> , 2007 , 301, 130-40	3.1	46
47	4D shear stress maps of the developing heart using Doppler optical coherence tomography. <i>Biomedical Optics Express</i> , 2012 , 3, 3022-32	3.5	43
46	Longitudinal Imaging of Heart Development With Optical Coherence Tomography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 1166-1175	3.8	42
45	Role of myocardial hypoxia in the remodeling of the embryonic avian cardiac outflow tract. <i>Developmental Biology</i> , 2004 , 267, 294-308	3.1	42
44	Apoptosis in the developing mouse heart. <i>Developmental Dynamics</i> , 2006 , 235, 2592-602	2.9	35

43	Altered hypoxia-inducible factor-1 alpha expression levels correlate with coronary vessel anomalies. <i>Developmental Dynamics</i> , 2009 , 238, 2688-700	2.9	34
42	Cardiac expression of polysialylated NCAM in the chicken embryo: correlation with the ventricular conduction system. <i>Developmental Dynamics</i> , 1992 , 194, 128-41	2.9	28
41	Increased regurgitant flow causes endocardial cushion defects in an avian embryonic model of congenital heart disease. <i>Congenital Heart Disease</i> , 2017 , 12, 322-331	3.1	26
40	Supplementation with the Methyl Donor Betaine Prevents Congenital Defects Induced by Prenatal Alcohol Exposure. <i>Alcoholism: Clinical and Experimental Research</i> , 2017 , 41, 1917-1927	3.7	25
39	Using optical coherence tomography to rapidly phenotype and quantify congenital heart defects associated with prenatal alcohol exposure. <i>Developmental Dynamics</i> , 2015 , 244, 607-18	2.9	25
38	Ultrastructural analysis of polysialylated neural cell adhesion molecule in the suprachiasmatic nuclei of the adult mouse. <i>The Anatomical Record</i> , 1999 , 256, 448-57		25
37	Expression of active Notch1 in avian coronary development. <i>Developmental Dynamics</i> , 2009 , 238, 162-70	2.9	23
36	Optical coherence tomography captures rapid hemodynamic responses to acute hypoxia in the cardiovascular system of early embryos. <i>Developmental Dynamics</i> , 2012 , 241, 534-44	2.9	21
35	Epicardial HIF signaling regulates vascular precursor cell invasion into the myocardium. <i>Developmental Biology</i> , 2013 , 376, 136-49	3.1	20
34	Expression of lymphatic markers during avian and mouse cardiogenesis. <i>Anatomical Record</i> , 2010 , 293, 259-70	2.1	20
33	Optical stimulation enables paced electrophysiological studies in embryonic hearts. <i>Biomedical Optics Express</i> , 2014 , 5, 1000-13	3.5	19
32	Cardiac neural crest ablation results in early endocardial cushion and hemodynamic flow abnormalities. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1150-H1159	5.2	18
31	Capturing structure and function in an embryonic heart with biophotonic tools. <i>Frontiers in Physiology</i> , 2014 , 5, 351	4.6	16
30	Emerging patterns of cardiac conduction in the chick embryo: waveform analysis with photodiode array-based optical imaging. <i>Developmental Dynamics</i> , 2005 , 233, 456-65	2.9	16
29	Three-dimensional correction of conduction velocity in the embryonic heart using integrated optical mapping and optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2014 , 19, 76004	3.5	14
28	Connecting teratogen-induced congenital heart defects to neural crest cells and their effect on cardiac function. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2014 , 102, 227-50		14
27	Expression of exogenous protein and analysis of morphogenesis in the developing chicken heart using an adenoviral vector. <i>Cardiovascular Research</i> , 1996 , 31, E86-E95	9.9	14
26	Functional imaging of the embryonic pacemaking and cardiac conduction system over the past 150 years: technologies to overcome the challenges. <i>The Anatomical Record</i> , 2004 , 280, 980-9		14

25	Embryonic aortic arch hemodynamics are a functional biomarker for ethanol-induced congenital heart defects [Invited]. <i>Biomedical Optics Express</i> , 2017 , 8, 1823-1837	3.5	13
24	Altering HIF-1 through 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure affects coronary vessel development. <i>Cardiovascular Toxicology</i> , 2013 , 13, 161-7	3.4	10
23	High-speed optical coherence tomography imaging of the beating avian embryonic heart. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, pdb.top98	1.2	9
22	Adhesion and junction molecules in embryonic and adult lens cell differentiation. <i>Acta Ophthalmologica</i> , 1992 , 70, 46-52	3.7	7
21	Volumetric optical mapping in early embryonic hearts using light-sheet microscopy. <i>Biomedical Optics Express</i> , 2016 , 7, 5120-5128	3.5	7
20	Hypoxia Supports Epicardial Cell Differentiation in Vascular Smooth Muscle Cells through the Activation of the TGF β Pathway. <i>Journal of Cardiovascular Development and Disease</i> , 2018 , 5,	4.2	6
19	Probing the Electrophysiology of the Developing Heart. <i>Journal of Cardiovascular Development and Disease</i> , 2016 , 3,	4.2	4
18	Developmental Transitions in Cardiac Conduction. <i>Novartis Foundation Symposium</i> , 2008 , 68-79		3
17	SLIME: robust, high-speed 3D microvascular mapping. <i>Scientific Reports</i> , 2019 , 9, 893	4.9	2
16	Cardiac Vasculature: Development and Pathology 2011 ,		2
15	Folic acid prevents functional and structural heart defects induced by prenatal ethanol exposure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H1313-H1320	5.2	2
14	Glutathione Protects the Developing Heart from Defects and Global DNA Hypomethylation Induced by Prenatal Alcohol Exposure. <i>Alcoholism: Clinical and Experimental Research</i> , 2021 , 45, 69-78	3.7	2
13	Developmental transitions in cardiac conduction. <i>Novartis Foundation Symposium</i> , 2003 , 250, 68-75; discussion 76-9, 276-9		2
12	VESGEN 2D: Automated, User-Interactive Software for Quantification and Mapping of Angiogenic and Lymphangiogenic Trees and Networks. <i>Anatomical Record</i> , 2009 , 292, spc1-spc1	2.1	1
11	Kruppel Like Factor 15 is a Critical Regulator of Angiotensin II Mediated Vascular Remodeling. <i>FASEB Journal</i> , 2009 , 23, 637.7	0.9	1
10	Three-dimensional alignment of microvasculature and cardiomyocytes in the developing ventricle. <i>Scientific Reports</i> , 2020 , 10, 14955	4.9	1
9	Prenatal ethanol exposure impairs the conduction delay at the atrioventricular junction in the looping heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 321, H294-H305	5.2	1
8	Cardiomyocyte Apoptosis in the Outflow Tract in Normal and Abnormal Cardiogenesis. <i>Microscopy and Microanalysis</i> , 2001 , 7, 594-595	0.5	

- 7 Expression Analysis of CITED2 mRNA During Chicken Heart Development. *FASEB Journal*, **2007**, 21, A200.9
- 6 Lymphatics of the Avian Embryonic Heart. *FASEB Journal*, **2007**, 21, A230 0.9
- 5 Altered hypoxia inducible factor-1 alpha levels correlate with major coronary vessel defects. *FASEB Journal*, **2007**, 21, A232 0.9
- 4 Rapid Quantification of Normal and Abnormal Blood and Lymphatic Vasculature. *FASEB Journal*, **2007**, 21, A88 0.9
- 3 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) reduces hypoxia-inducible factor-1 alpha nuclear localization within cardiac tissues during chick embryo development. *FASEB Journal*, **2007**, 21, A200 0.9
- 2 Localization and induced release of potentially therapeutic components of the rat submandibular salivary gland. *FASEB Journal*, **2019**, 33, 446.3 0.9
- 1 Inducible reexpression of HEXIM1 activates physiological rather than pathological responses in the adult heart. *FASEB Journal*, **2012**, 26, 526.2 0.9