

# Michiko Watanabe

## List of Publications by Year in Descending Order

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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	Folic acid prevents functional and structural heart defects induced by prenatal ethanol exposure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H1313-H1320	5.2	2
59	Glutathione Protects the Developing Heart from Defects and Global DNA Hypomethylation Induced by Prenatal Alcohol Exposure. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2021</b> , 45, 69-78	3.7	2
58	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> , <b>2021</b> , 321, H294-H305	5.2	1
57	Three-dimensional alignment of microvasculature and cardiomyocytes in the developing ventricle. <i>Scientific Reports</i> , <b>2020</b> , 10, 14955	4.9	1
56	SLIME: robust, high-speed 3D microvascular mapping. <i>Scientific Reports</i> , <b>2019</b> , 9, 893	4.9	2
55	Localization and induced release of potentially therapeutic components of the rat submandibular salivary gland. <i>FASEB Journal</i> , <b>2019</b> , 33, 446.3	0.9	
54	Hypoxia Supports Epicardial Cell Differentiation in Vascular Smooth Muscle Cells through the Activation of the TGF $\beta$ Pathway. <i>Journal of Cardiovascular Development and Disease</i> , <b>2018</b> , 5,	4.2	6
53	Increased regurgitant flow causes endocardial cushion defects in an avian embryonic model of congenital heart disease. <i>Congenital Heart Disease</i> , <b>2017</b> , 12, 322-331	3.1	26
52	Supplementation with the Methyl Donor Betaine Prevents Congenital Defects Induced by Prenatal Alcohol Exposure. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2017</b> , 41, 1917-1927	3.7	25
51	Embryonic aortic arch hemodynamics are a functional biomarker for ethanol-induced congenital heart defects [Invited]. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 1823-1837	3.5	13
50	Probing the Electrophysiology of the Developing Heart. <i>Journal of Cardiovascular Development and Disease</i> , <b>2016</b> , 3,	4.2	4
49	Volumetric optical mapping in early embryonic hearts using light-sheet microscopy. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 5120-5128	3.5	7
48	Cardiac neural crest ablation results in early endocardial cushion and hemodynamic flow abnormalities. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 311, H1150-H1159	5.2	18
47	Using optical coherence tomography to rapidly phenotype and quantify congenital heart defects associated with prenatal alcohol exposure. <i>Developmental Dynamics</i> , <b>2015</b> , 244, 607-18	2.9	25
46	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> , <b>2014</b> , 306, H414-21	5.2	46
45	Three-dimensional correction of conduction velocity in the embryonic heart using integrated optical mapping and optical coherence tomography. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 76004	3.5	14
44	Capturing structure and function in an embryonic heart with biophotonic tools. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 351	4.6	16

43	Optical stimulation enables paced electrophysiological studies in embryonic hearts. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 1000-13	3.5	19
42	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> , <b>2014</b> , 102, 227-50		14
41	Altering HIF-1 through 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure affects coronary vessel development. <i>Cardiovascular Toxicology</i> , <b>2013</b> , 13, 161-7	3.4	10
40	Epicardial HIF signaling regulates vascular precursor cell invasion into the myocardium. <i>Developmental Biology</i> , <b>2013</b> , 376, 136-49	3.1	20
39	Optical coherence tomography captures rapid hemodynamic responses to acute hypoxia in the cardiovascular system of early embryos. <i>Developmental Dynamics</i> , <b>2012</b> , 241, 534-44	2.9	21
38	Longitudinal Imaging of Heart Development With Optical Coherence Tomography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2012</b> , 18, 1166-1175	3.8	42
37	4D shear stress maps of the developing heart using Doppler optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 3022-32	3.5	43
36	Inducible reexpression of HEXIM1 activates physiological rather than pathological responses in the adult heart. <i>FASEB Journal</i> , <b>2012</b> , 26, 526.2	0.9	
35	Cardiac Vasculature: Development and Pathology <b>2011</b> ,		2
34	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> , <b>2011</b> , 300, H879-91	5.2	49
33	High-speed optical coherence tomography imaging of the beating avian embryonic heart. <i>Cold Spring Harbor Protocols</i> , <b>2011</b> , 2011, pdb.top98	1.2	9
32	Measuring hemodynamics in the developing heart tube with four-dimensional gated Doppler optical coherence tomography. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 066022	3.5	50
31	Expression of lymphatic markers during avian and mouse cardiogenesis. <i>Anatomical Record</i> , <b>2010</b> , 293, 259-70	2.1	20
30	Expression of active Notch1 in avian coronary development. <i>Developmental Dynamics</i> , <b>2009</b> , 238, 162-70	2.9	23
29	Altered hypoxia-inducible factor-1 alpha expression levels correlate with coronary vessel anomalies. <i>Developmental Dynamics</i> , <b>2009</b> , 238, 2688-700	2.9	34
28	VESGEN 2D: Automated, User-Interactive Software for Quantification and Mapping of Angiogenic and Lymphangiogenic Trees and Networks. <i>Anatomical Record</i> , <b>2009</b> , 292, spc1-spc1	2.1	1
27	Kruppel Like Factor 15 is a Critical Regulator of Angiotensin II Mediated Vascular Remodeling. <i>FASEB Journal</i> , <b>2009</b> , 23, 637.7	0.9	1
26	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> , <b>2008</b> , 105, 17115-20	11.5	134

25	Developmental Transitions in Cardiac Conduction. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 68-79		3
24	Cited2, a coactivator of HNF4alpha, is essential for liver development. <i>EMBO Journal</i> , <b>2007</b> , 26, 4445-56	13	57
23	Partial rescue of defects in Cited2-deficient embryos by HIF-1alpha heterozygosity. <i>Developmental Biology</i> , <b>2007</b> , 301, 130-40	3.1	46
22	Expression Analysis of CITED2 mRNA During Chicken Heart Development. <i>FASEB Journal</i> , <b>2007</b> , 21, A200	0.9	
21	Lymphatics of the Avian Embryonic Heart. <i>FASEB Journal</i> , <b>2007</b> , 21, A230		0.9
20	Altered hypoxia inducible factor-1 alpha levels correlate with major coronary vessel defects. <i>FASEB Journal</i> , <b>2007</b> , 21, A232		0.9
19	Rapid Quantification of Normal and Abnormal Blood and Lymphatic Vasculature. <i>FASEB Journal</i> , <b>2007</b> , 21, A88		0.9
18	2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) reduces hypoxia-inducible factor-1 alpha nuclear localization within cardiac tissues during chick embryo development. <i>FASEB Journal</i> , <b>2007</b> , 21, A200		0.9
17	Differential levels of tissue hypoxia in the developing chicken heart. <i>Developmental Dynamics</i> , <b>2006</b> , 235, 115-23	2.9	47
16	Apoptosis in the developing mouse heart. <i>Developmental Dynamics</i> , <b>2006</b> , 235, 2592-602	2.9	35
15	Emerging patterns of cardiac conduction in the chick embryo: waveform analysis with photodiode array-based optical imaging. <i>Developmental Dynamics</i> , <b>2005</b> , 233, 456-65	2.9	16
14	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> , <b>2004</b> , 280, 980-9		14
13	Role of myocardial hypoxia in the remodeling of the embryonic avian cardiac outflow tract. <i>Developmental Biology</i> , <b>2004</b> , 267, 294-308	3.1	42
12	Hypoxia-responsive signaling regulates the apoptosis-dependent remodeling of the embryonic avian cardiac outflow tract. <i>Developmental Biology</i> , <b>2004</b> , 273, 285-96	3.1	56
11	Developmental transitions in cardiac conduction. <i>Novartis Foundation Symposium</i> , <b>2003</b> , 250, 68-75; discussion 76-9, 276-9		2
10	The pros and cons of apoptosis assays for use in the study of cells, tissues, and organs. <i>Microscopy and Microanalysis</i> , <b>2002</b> , 8, 375-91	0.5	103
9	Cardiomyocyte Apoptosis in the Outflow Tract in Normal and Abnormal Cardiogenesis. <i>Microscopy and Microanalysis</i> , <b>2001</b> , 7, 594-595	0.5	
8	Ultrastructural analysis of polysialylated neural cell adhesion molecule in the suprachiasmatic nuclei of the adult mouse. <i>The Anatomical Record</i> , <b>1999</b> , 256, 448-57		25

7	Differential expression of PSA-NCAM and HNK-1 epitopes in the developing cardiac conduction system of the chick. <i>Developmental Dynamics</i> , <b>1997</b> , 209, 182-95	2.9	47
6	Changing activation sequence in the embryonic chick heart. Implications for the development of the His-Purkinje system. <i>Circulation Research</i> , <b>1997</b> , 81, 470-6	15.7	71
5	Expression of exogenous protein and analysis of morphogenesis in the developing chicken heart using an adenoviral vector. <i>Cardiovascular Research</i> , <b>1996</b> , 31, E86-E95	9.9	14
4	Adhesion and junction molecules in embryonic and adult lens cell differentiation. <i>Acta Ophthalmologica</i> , <b>1992</b> , 70, 46-52	3.7	7
3	Cardiac expression of polysialylated NCAM in the chicken embryo: correlation with the ventricular conduction system. <i>Developmental Dynamics</i> , <b>1992</b> , 194, 128-41	2.9	28
2	Formation of the retinal ganglion cell and optic fiber layers. <i>Journal of Neurobiology</i> , <b>1991</b> , 22, 85-96		72
1	Glial cells express N-CAM/D2-CAM-like polypeptides in vitro. <i>Nature</i> , <b>1985</b> , 316, 725-8	50.4	179