Tomohiko Ai

List of Publications by Year
in descending order

76	2,216	279798	233421
papers	citations	23 h-index	45 g-index

77	77	77	2738
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exercise Stress Test Amplifies Genotype-Phenotype Correlation in the LQT1 and LQT2 Forms of the Long-QT Syndrome. Circulation, 2003, 107, 838-844.	1.6	227
2	Evidence-Based Assessment of Genes in Dilated Cardiomyopathy. Circulation, 2021, 144, 7-19.	1.6	213
3	Drug-Induced Long-QT Syndrome Associated With a Subclinical SCN5A Mutation. Circulation, 2002, 106, 1269-1274.	1.6	182
4	Small-Conductance Calcium-Activated Potassium Channel and Recurrent Ventricular Fibrillation in Failing Rabbit Ventricles. Circulation Research, 2011, 108, 971-979.	4.5	149
5	Î±-1-Syntrophin Mutation and the Long-QT Syndrome. Circulation: Arrhythmia and Electrophysiology, 2008, 1, 193-201.	4.8	115
6	Long QT syndrome with compound mutations is associated with a more severe phenotype: A Japanese multicenter study. Heart Rhythm, 2010, 7, 1411-1418.	0.7	103
7	Novel KCNJ2 Mutation in Familial Periodic Paralysis With Ventricular Dysrhythmia. Circulation, 2002, 105, 2592-2594.	1.6	102
8	Heterogeneous Upregulation of Apaminâ€Sensitive Potassium Currents in Failing Human Ventricles. Journal of the American Heart Association, 2013, 2, e004713.	3.7	76
9	Variant Interpretation for Dilated Cardiomyopathy. Circulation Genomic and Precision Medicine, 2020, 13, e002480.	3.6	70
10	Capsaicin Potentiates Wild-Type and Mutant Cystic Fibrosis Transmembrane Conductance Regulator Chloride-Channel Currents. Molecular Pharmacology, 2004, 65, 1415-1426.	2.3	59
11	CFTR Gating I. Journal of General Physiology, 2005, 125, 361-375.	1.9	58
12	Phosphorylation of the RSRSP stretch is critical for splicing regulation by RNA-Binding Motif Protein 20 (RBM20) through nuclear localization. Scientific Reports, 2018, 8, 8970.	3.3	58
13	Apamin-Sensitive Potassium Current Modulates Action Potential Duration Restitution and Arrhythmogenesis of Failing Rabbit Ventricles. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 410-418.	4.8	57
14	A novel automated image analysis system using deep convolutional neural networks can assist to differentiate MDS and AA. Scientific Reports, 2019, 9, 13385.	3.3	51
15	A ZASP Missense Mutation, S196L, Leads to Cytoskeletal and Electrical Abnormalities in a Mouse Model of Cardiomyopathy. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 646-656.	4.8	40
16	Effects of Pulmonary Vein Ablation on Regional Atrial Vagal Innervation and Vulnerability to Atrial Fibrillation in Dogs. Journal of Cardiovascular Electrophysiology, 2005, 16, 879-884.	1.7	38
17	Block of pancreatic ATPâ€sensitive K⁺ channels and insulinotrophic action by the antiarrhythmic agent, cibenzoline. British Journal of Pharmacology, 1996, 117, 1749-1755.	5.4	37
18	Exogenous mitochondrial transfer and endogenous mitochondrial fission facilitate AML resistance to OxPhos inhibition. Blood Advances, 2021, 5, 4233-4255.	5.2	36

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19	A novel SCN5A mutation V1340I in Brugada syndrome augmenting arrhythmias during febrile illness. Heart Rhythm, 2009, 6, 1318-1326.	0.7	34
20	Loss of Function of hNa _v 1.5 by a ZASP1 Mutation Associated With Intraventricular Conduction Disturbances in Left Ventricular Noncompaction. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 1017-1026.	4.8	34
21	Drug-induced fatal arrhythmias: Acquired long QT and Brugada syndromes. , 2017, 176, 48-59.		29
22	Amiodarone Inhibits Apamin-Sensitive Potassium Currents. PLoS ONE, 2013, 8, e70450.	2.5	28
23	Apamin Does Not Inhibit Human Cardiac Na+ Current, L-type Ca2+ Current or Other Major K+ Currents. PLoS ONE, 2014, 9, e96691.	2.5	25
24	Accentuated antagonism by angiotensin II on guinea-pig cardiac L-type Ca-currents enhanced by Î²-adrenergic stimulation. Pflugers Archiv European Journal of Physiology, 1998, 436, 168-174.	2.8	23
25	Vagal Stimulation Promotes Atrial Electrical Remodeling Induced by Rapid Atrial Pacing in Dogs: Evidence of a Noncholinergic Effect. PACE - Pacing and Clinical Electrophysiology, 2011, 34, 1092-1099.	1.2	21
26	Arrhythmogenic calmodulin mutations impede activation of small-conductance calcium-activated potassium current. Heart Rhythm, 2016, 13, 1716-1723.	0.7	21
27	A Common SCN5A Variant Alters the Responsiveness of Human Sodium Channels to Class I Antiarrhythmic Agents. Journal of Cardiovascular Electrophysiology, 2007, 18, 434-440.	1.7	19
28	Hypokalemia promotes late phase 3 early afterdepolarization and recurrent ventricular fibrillation during isoproterenol infusion in Langendorff perfused rabbit ventricles. Heart Rhythm, 2014, 11, 697-706.	0.7	19
29	Evaluation of cell count and classification capabilities in body fluids using a fully automated Sysmex XN equipped with high-sensitive Analysis (hsA) mode and DI-60 hematology analyzer system. PLoS ONE, 2018, 13, e0195923.	2.5	19
30	Characteristics, laboratories, and prognosis of severe COVID-19 in the Tokyo metropolitan area: A retrospective case series. PLoS ONE, 2020, 15, e0239644.	2.5	18
31	Comparison of the clinical performance and usefulness of five SARS-CoV-2 antibody tests. PLoS ONE, 2021, 16, e0246536.	2.5	17
32	Novel flowcytometry-based approach of malignant cell detection in body fluids using an automated hematology analyzer. PLoS ONE, 2018, 13, e0190886.	2.5	17
33	Successful Radiofrequency Current Catheter Ablation of Accessory Atrioventricular Pathway in Ebstein's Anomaly using Electroanatomic Mapping. PACE - Pacing and Clinical Electrophysiology, 2002, 25, 374-375.	1.2	16
34	Functional Communication Between Cardiac ATPSensitive K+Channel and Na/K ATPase. Journal of Cardiovascular Electrophysiology, 1998, 9, 415-422.	1.7	15
35	Direct effects of 9-anthracene compounds on cystic fibrosis transmembrane conductance regulator gating. Pflugers Archiv European Journal of Physiology, 2004, 449, 88-95.	2.8	15
36	Laceration of the transverse mesocolon in an old man with a habit of abdominal massage for constipation: a case report. Surgical Case Reports, 2020, 6, 1.	0.6	14

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37	Slow Pathway Ablation Decreases Vulnerability to Pacing-Induced Atrial Fibrillation: Possible Role of Vagal Denervation. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 1234-1239.	1.2	12
38	Ionic Mechanisms Underlying the Effects of Vasoactive Intestinal Polypeptide on Canine Atrial Myocardium. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 976-983.	4.8	12
39	Hemolysis Is Responsible for Elevation of Serum Iron Concentration After Regular Exercises in Judo Athletes. Biological Trace Element Research, 2020, 197, 63-69.	3.5	11
40	A Novel SCN5A Mutation Associated with Drug Induced Brugada Type ECG. PLoS ONE, 2016, 11, e0161872.	2.5	10
41	The Effects of Pulmonary Vein Isolation on the Dominant Frequency and Organization of Coronary Sinus Electrical Activity During Permanent Atrial Fibrillation. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 1201-1208.	1.2	9
42	A new highly sensitive real-time quantitative-PCR method for detection of BCR-ABL1 to monitor minimal residual disease in chronic myeloid leukemia after discontinuation of imatinib. PLoS ONE, 2019, 14, e0207170.	2.5	9
43	Successful Radiofrequency Current Catheter Ablation of Accessory Atrioventricular Pathway After Tricuspid Replacement in Ebstein's Anomaly. Japanese Circulation Journal, 1998, 62, 791-793.	1.0	8
44	Atrial fibrillation and electrophysiology in transgenic mice with cardiac-restricted overexpression of FKBP12. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H371-H379.	3.2	8
45	Seroprevalence of anti-SARS-CoV-2 antibodies in Japanese COVID-19 patients. PLoS ONE, 2021, 16, e0249449.	2.5	8
46	Telethonin variants found in Brugada syndrome, Jâ€wave pattern ECG, and ARVC reduce peak Na v 1.5 currents in HEKâ€293 cells. PACE - Pacing and Clinical Electrophysiology, 2020, 43, 838-846.	1.2	7
47	Peripheral granular lymphocytopenia and dysmorphic leukocytosis as simple prognostic markers in COVIDâ€19. International Journal of Laboratory Hematology, 2021, 43, 1309-1318.	1.3	7
48	A Nonsense SCN5A Mutation Associated with Brugadaâ€Type Electrocardiogram and Intraventricular Conduction Defects. PACE - Pacing and Clinical Electrophysiology, 2009, 32, 1231-1236.	1.2	6
49	Human Soluble Recombinant Thrombomodulin, ART-123, Resolved Early Phase Coagulopathies, but Did Not Significantly Alter the 28 Day Outcome in the Treatment of DIC Associated with Infectious Systemic Inflammatory Response Syndromes. Journal of Clinical Medicine, 2019, 8, 1553.	2.4	6
50	Automated diagnostic support system with deep learning algorithms for distinction of Philadelphia chromosome-negative myeloproliferative neoplasms using peripheral blood specimen. Scientific Reports, 2021, 11, 3367.	3.3	6
51	Abnormal Cardiac Repolarization After Seizure Episodes in Structural Brain Diseases: Cardiac Manifestation of Electrical Remodeling in the Brain?. Journal of the American Heart Association, 2021, 10, e019778.	3.7	6
52	Compound Heterozygous SCN5A Gene Mutations in Aasymptomatic Brugada Syndrome Child. Neurology International, 2012, 2, e11.	0.5	5
53	Imaging Arrhythmogenic Calcium Signaling in Intact Hearts. Pediatric Cardiology, 2012, 33, 968-974.	1.3	5
54	Eprobe mediated RT-qPCR for the detection of leukemia-associated fusion genes. PLoS ONE, 2018, 13, e0202429.	2.5	4

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55	Phosphorylation of Lamin A/C at serine 22 modulates Na _v 1.5 function. Physiological Reports, 2021, 9, e15121.	1.7	4
56	Lamin-A/C variants found in patients with cardiac conduction disease reduce sodium currents. Neurology International, 2018, 8, .	0.5	3
57	Bilateral cardiac sympathetic denervation: The last resort?. Heart Rhythm, 2014, 11, 367-368.	0.7	2
58	Performance evaluation of the Sysmex DIâ€60 overview application for tumor cell detection in body fluid samples. International Journal of Laboratory Hematology, 2019, 41, e134-e138.	1.3	2
59	Atypical profile of aortic injury associated with blunt trauma in the metropolitan area of Japan. Trauma Surgery and Acute Care Open, 2019, 4, e000342.	1.6	2
60	Clinical Evaluation of Siemens SARS-CoV-2 Total Antibody assay and IgG assay using the Dimension EXL 200 in the Tokyo Metropolitan area. Heliyon, 2021, 7, e08393.	3.2	2
61	Diverse Mechanisms of Resistance to Decitabine and Venetoclax Therapy in Newly Diagnosed and Relapsed/Refractory AML Inferred By Transcriptome Analysis. Blood, 2021, 138, 2244-2244.	1.4	2
62	Gene therapy for AF: A dream too far?. Heart Rhythm, 2011, 8, 1730-1731.	0.7	1
63	A Case of Fatal Stanford Type A Aortic Dissection Caused by a Traffic Accident with Low Energy Impact . Open Access Emergency Medicine, 2020, Volume 12, 287-291.	1.3	1
64	Novel Variants in the CLCN1, RYR2, and DCTN1 Found in Elderly Japanese Dementia Patients: A Case Series. Geriatrics (Switzerland), 2021, 6, 14.	1.7	1
65	Comparison of the Analytical Performance Between cobas EGFR Assay and PCR-Clamp Method in the Detection of EGFR Mutations in Japanese Non-Small Cell Lung Cancer Patients. Clinical Laboratory, 2017, 63, 1021-1026.	0.5	1
66	Pandora will never regret having opened her box: reappraisal of genes associated with CPVT and SQTS. European Heart Journal, 2021, , .	2.2	1
67	Is c-Src Tyrosine Kinase a New Target for Antiarrhythmic Drug Therapy?. Journal of the American College of Cardiology, 2011, 58, 2340-2341.	2.8	0
68	Long QT Syndrome as a Cause of Cardiac Sudden Death. , 2000, , 105-113.		0
69	Nerve Sprouting, Defibrillation and Calcium Waves. , 2013, , 219-232.		0
70	Bilateral Segmental Digital Ischemia During Sepsis. Medical Science Case Reports, 0, 3, 64-66.	0.0	0
71	BCL2A1: A Novel Target in Refractory Acute Myeloid Leukemia with FLT3-ITD/D835 Dual Mutations. Blood, 2020, 136, 32-33.	1.4	0
72	Title is missing!. , 2020, 15, e0239644.		0

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73	Title is missing!. , 2020, 15, e0239644.		0
74	Title is missing!. , 2020, 15, e0239644.		0
75	Title is missing!. , 2020, 15, e0239644.		0
76	Development of an evaluation model to determine disease severity in <scp>COVID</scp>â€19 using basic laboratory markers. International Journal of Laboratory Hematology, 2022, 44, .	1.3	0