

Gary A Weisman

List of Publications by Year in descending order

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116
papers

7,792
citations

36303

51
h-index

53230

85
g-index

117
all docs

117
docs citations

117
times ranked

6622
citing authors

#	ARTICLE	IF	CITATIONS
1	International Union of Pharmacology LVIII: Update on the P2Y G Protein-Coupled Nucleotide Receptors: From Molecular Mechanisms and Pathophysiology to Therapy. <i>Pharmacological Reviews</i> , 2006, 58, 281-341.	16.0	1,147
2	Characterization of the UDP-glucose receptor (re-named here the P2Y14 receptor) adds diversity to the P2Y receptor family. <i>Trends in Pharmacological Sciences</i> , 2003, 24, 52-55.	8.7	382
3	P2 receptors: intracellular signaling. <i>Pflugers Archiv European Journal of Physiology</i> , 2006, 452, 552-562.	2.8	207
4	Cloning, Expression, and Chromosomal Localization of the Human Uridine Nucleotide Receptor Gene. <i>Journal of Biological Chemistry</i> , 1995, 270, 30845-30848.	3.4	172
5	Coupling of P2Y receptors to G proteins and other signaling pathways. <i>Environmental Sciences Europe</i> , 2012, 1, 789-803.	5.5	163
6	An Rgd Sequence in the P2y2 Receptor Interacts with α_3 Integrins and Is Required for Go-Mediated Signal Transduction. <i>Journal of Cell Biology</i> , 2001, 153, 491-502.	5.2	150
7	Src Homology 3 Binding Sites in the P2Y2 Nucleotide Receptor Interact with Src and Regulate Activities of Src, Proline-rich Tyrosine Kinase 2, and Growth Factor Receptors. <i>Journal of Biological Chemistry</i> , 2004, 279, 8212-8218.	3.4	146
8	Advances in the Understanding of Mammalian Copper Transporters. <i>Advances in Nutrition</i> , 2011, 2, 129-137.	6.4	136
9	Pro-inflammatory cytokines and lipopolysaccharide induce changes in cell morphology, and upregulation of ERK1/2, iNOS and sPLA2-IIA expression in astrocytes and microglia. <i>Journal of Neuroinflammation</i> , 2011, 8, 121.	7.2	136
10	The P2Y2 Nucleotide Receptor Mediates Vascular Cell Adhesion Molecule-1 Expression through Interaction with VEGF Receptor-2 (KDR/Flk-1). <i>Journal of Biological Chemistry</i> , 2004, 279, 35679-35686.	3.4	133
11	Site-directed Mutagenesis of P2U Purinoceptors. <i>Journal of Biological Chemistry</i> , 1995, 270, 4185-4188.	3.4	131
12	PPADS and suramin as antagonists at cloned P _{2Y} and P _{2U} purinoceptors. <i>British Journal of Pharmacology</i> , 1996, 118, 704-710.	5.4	131
13	ATP7A delivers copper to the lysyl oxidase family of enzymes and promotes tumorigenesis and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6836-6841.	7.1	117
14	Role of PKC and MAPK in cytosolic PLA ₂ phosphorylation and arachadonic acid release in primary murine astrocytes. <i>Journal of Neurochemistry</i> , 2002, 83, 259-270.	3.9	115
15	Beneficial Effects of Dietary EGCG and Voluntary Exercise on Behavior in an Alzheimer's Disease Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 561-572.	2.6	114
16	Functional P2Y ₂ Nucleotide Receptors Mediate Uridine 5'-Triphosphate-Induced Intimal Hyperplasia in Collared Rabbit Carotid Arteries. <i>Circulation</i> , 2002, 106, 2720-2726.	1.6	112
17	P2X ₇ receptors stimulate AKT phosphorylation in astrocytes. <i>British Journal of Pharmacology</i> , 2004, 141, 1106-1117.	5.4	112
18	P2Y2 Nucleotide Receptors Enhance β -Secretase-dependent Amyloid Precursor Protein Processing. <i>Journal of Biological Chemistry</i> , 2005, 280, 18696-18702.	3.4	110

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19	The P2Y2 Nucleotide Receptor Mediates UTP-induced Vascular Cell Adhesion Molecule-1 Expression in Coronary Artery Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 24960-24965.	3.4	105
20	Proinflammatory cytokines tumor necrosis factor- α and interferon- β alter tight junction structure and function in the rat parotid gland Par-C10 cell line. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1191-C1201.	4.6	103
21	Phospholipase A ₂ in Astrocytes: Responses to Oxidative Stress, Inflammation, and G Protein-Coupled Receptor Agonists. <i>Molecular Neurobiology</i> , 2005, 31, 027-042.	4.0	101
22	The P2Y2 Nucleotide Receptor Interacts with α v Integrins to Activate Go and Induce Cell Migration. <i>Journal of Biological Chemistry</i> , 2005, 280, 39050-39057.	3.4	100
23	Mechanisms of P2X ₇ receptor-mediated ERK1/2 phosphorylation in human astrocytoma cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C571-C581.	4.6	99
24	Modulation of endothelial cell migration by extracellular nucleotides. <i>Thrombosis and Haemostasis</i> , 2005, 93, 735-742.	3.4	95
25	P2Y ₂ receptors activate neuroprotective mechanisms in astrocytic cells. <i>Journal of Neurochemistry</i> , 2004, 91, 119-132.	3.9	91
26	Purinergic receptors as potential therapeutic targets in Alzheimer's disease. <i>Neuropharmacology</i> , 2016, 104, 169-179.	4.1	91
27	P2Y2 nucleotide receptor interaction with α v integrin mediates astrocyte migration. <i>Journal of Neurochemistry</i> , 2005, 95, 630-640.	3.9	90
28	P2X7 nucleotide receptor activation enhances IFN β -induced type II nitric oxide synthase activity in BV-2 microglial cells. <i>Journal of Neurochemistry</i> , 2003, 87, 344-352.	3.9	89
29	Permeabilization of transformed cells in culture by external ATP. <i>Journal of Membrane Biology</i> , 1985, 86, 189-196.	2.1	87
30	Cloned and transfected P2Y ₄ receptors: characterization of a suramin and PPADS-insensitive response to UTP. <i>British Journal of Pharmacology</i> , 1996, 119, 1301-1303.	5.4	85
31	Prolonged Exposure of Cortical Neurons to Oligomeric Amyloid- β Impairs NMDA Receptor Function Via NADPH Oxidase-Mediated ROS Production: Protective Effect of Green Tea (-)-Epigallocatechin-3-Gallate. <i>ASN Neuro</i> , 2010, 3, AN20100025.	2.7	81
32	Structural Basis of Agonist-induced Desensitization and Sequestration of the P2Y2 Nucleotide Receptor. <i>Journal of Biological Chemistry</i> , 1998, 273, 29437-29444.	3.4	80
33	Molecular Determinants of P2Y ₂ Nucleotide Receptor Function: Implications for Proliferative and Inflammatory Pathways in Astrocytes. <i>Molecular Neurobiology</i> , 2005, 31, 169-184.	4.0	78
34	Altered microglial copper homeostasis in a mouse model of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2010, 114, 1630-1638.	3.9	78
35	P2 Receptors for Extracellular Nucleotides in the Central Nervous System: Role of P2X7 and P2Y2 Receptor Interactions in Neuroinflammation. <i>Molecular Neurobiology</i> , 2012, 46, 96-113.	4.0	76
36	Radiation-Induced Salivary Gland Dysfunction: Mechanisms, Therapeutics and Future Directions. <i>Journal of Clinical Medicine</i> , 2020, 9, 4095.	2.4	76

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37	The P2Y2 nucleotide receptor requires interaction with \int v integrins to access and activate G12. <i>Journal of Cell Science</i> , 2007, 120, 1654-1662.	2.0	73
38	P2Y2 Nucleotide Receptor-Mediated Responses in Brain Cells. <i>Molecular Neurobiology</i> , 2010, 41, 356-366.	4.0	68
39	Mechanisms by which extracellular ATP and UTP stimulate the release of prostacyclin from bovine pulmonary artery endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992, 1134, 61-72.	4.1	67
40	Nucleotides released from $\text{A}\beta_{1-42}$ -treated microglial cells increase cell migration and $\text{A}\beta_{1-42}$ uptake through P2Y ₂ receptor activation. <i>Journal of Neurochemistry</i> , 2012, 121, 228-238.	3.9	67
41	P2X7 receptor antagonism prevents IL-1 β release from salivary epithelial cells and reduces inflammation in a mouse model of autoimmune exocrinopathy. <i>Journal of Biological Chemistry</i> , 2017, 292, 16626-16637.	3.4	67
42	P2X7 nucleotide receptors mediate caspase-8/9/3-dependent apoptosis in rat primary cortical neurons. <i>Purinergic Signalling</i> , 2005, 1, 337-347.	2.2	62
43	Binding of the P2Y ₂ Nucleotide Receptor to Filamin A Regulates Migration of Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2008, 102, 581-588.	4.5	61
44	Interleukin-1 β enhances nucleotide-induced and Ca^{2+} -secretase-dependent amyloid precursor protein processing in rat primary cortical neurons via up-regulation of the P2Y ₂ receptor. <i>Journal of Neurochemistry</i> , 2009, 109, 1300-1310.	3.9	61
45	Cellular responses to external ATP which precede an increase in nucleotide permeability in transformed cells. <i>Journal of Cellular Physiology</i> , 1984, 119, 211-219.	4.1	60
46	Signal Transduction Pathways Coupled to a P2UReceptor in Neuroblastoma $\tilde{\text{A}}$ Glioma (NG108-15) Cells. <i>Journal of Neurochemistry</i> , 1993, 60, 1115-1125.	3.9	60
47	P2Y2nucleotide receptor signaling in human monocytic cells: Activation, desensitization and coupling to mitogen-activated protein kinases. <i>Journal of Cellular Physiology</i> , 2001, 187, 196-208.	4.1	58
48	<i>P2Y₂ Receptor Transcription Is Increased by NF-κB and Stimulates Cyclooxygenase-2 Expression and PGE2 Released by Intestinal Epithelial Cells.</i> <i>Journal of Immunology</i> , 2009, 183, 4521-4529.	0.8	58
49	Cloning, Up-Regulation, and Mitogenic Role of Porcine P2Y2 Receptor in Coronary Artery Smooth Muscle Cells. <i>Molecular Pharmacology</i> , 2004, 66, 1265-1274.	2.3	55
50	Loss of P2Y2 Nucleotide Receptors Enhances Early Pathology in the TgCRND8 Mouse Model of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2014, 49, 1031-1042.	4.0	55
51	Host and Pathogen Copper-Transporting P-Type ATPases Function Antagonistically during Salmonella Infection. <i>Infection and Immunity</i> , 2017, 85, .	2.2	54
52	P2X7 receptor activation induces inflammatory responses in salivary gland epithelium. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C790-C801.	4.6	53
53	Rat Parotid Gland Cell Differentiation in Three-Dimensional Culture. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1135-1144.	2.1	51
54	P2Y2 nucleotide receptor up-regulation in submandibular gland cells from the NOD.B10 mouse model of Sjogren's syndrome. <i>Archives of Oral Biology</i> , 2005, 50, 533-540.	1.8	50

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55	Desensitization of P2Y ₂ receptor-activated transepithelial anion secretion. American Journal of Physiology - Cell Physiology, 1999, 276, C777-C787.	4.6	49
56	Mechanisms of agonist-dependent and -independent desensitization of a recombinant P2Y ₂ nucleotide receptor. Molecular and Cellular Biochemistry, 2000, 205, 115-123.	3.1	46
57	The recently orphanized GPR80 (GPR99) proposed to be the P2Y ₁₅ receptor is not a genuine P2Y receptor. Trends in Pharmacological Sciences, 2005, 26, 8-9.	8.7	46
58	Permeabilization of transformed mouse fibroblasts by 3'-O-(4-benzoyl)benzoyl adenosine 5'-triphosphate and the desensitization of the process. Journal of Cellular Physiology, 1989, 139, 109-115.	4.1	45
59	P2Y ₂ Nucleotide Receptors Mediate Metalloprotease-dependent Phosphorylation of Epidermal Growth Factor Receptor and ErbB3 in Human Salivary Gland Cells. Journal of Biological Chemistry, 2010, 285, 7545-7555.	3.4	45
60	Neuroprotective roles of the P2Y ₂ receptor. Purinergic Signalling, 2012, 8, 559-578.	2.2	45
61	Increased Expression of TGF- β 2 Signaling Components in a Mouse Model of Fibrosis Induced by Submandibular Gland Duct Ligation. PLoS ONE, 2015, 10, e0123641.	2.5	45
62	Agonist-induced phosphorylation and desensitization of the P2Y ₂ nucleotide receptor. Molecular and Cellular Biochemistry, 2005, 280, 35-45.	3.1	42
63	Highly Potent and Selective Ectonucleotide Pyrophosphatase/Phosphodiesterase I Inhibitors Based on an Adenosine 5'-(β or β ³)-Thio-(β , β ² - or β ² , β ³)-methylenetriphosphate Scaffold. Journal of Medicinal Chemistry, 2014, 57, 4677-4691.	6.4	41
64	P2Y Receptors in the Mammalian Nervous System: Pharmacology, Ligands and Therapeutic Potential. CNS and Neurological Disorders - Drug Targets, 2012, 11, 722-738.	1.4	40
65	Targeting NADPH Oxidase and Phospholipases A2 in Alzheimer's Disease. Molecular Neurobiology, 2010, 41, 73-86.	4.0	38
66	P2Y receptors in Alzheimer's disease. Biology of the Cell, 2015, 107, 1-21.	2.0	38
67	Up-regulation and activation of the P2Y ₂ nucleotide receptor mediate neurite extension in <i>IL-1β</i> -treated mouse primary cortical neurons. Journal of Neurochemistry, 2013, 125, 885-896.	3.9	37
68	P2Y ₂ nucleotide receptor activation up-regulates vascular cell adhesion molecular-1 expression and enhances lymphocyte adherence to a human submandibular gland cell line. Molecular Immunology, 2008, 45, 65-75.	2.2	35
69	Phytochemicals and botanical extracts regulate NF- κ B and Nrf2/ARE reporter activities in DI TNC1 astrocytes. Neurochemistry International, 2016, 97, 49-56.	3.8	35
70	Permeability change in transformed mouse fibroblasts caused by ionophores, and its relationship to membrane permeabilization by exogenous ATP. Journal of Membrane Biology, 1985, 83, 251-259.	2.1	29
71	Extracellular UTP stimulates electrogenic bicarbonate secretion across CFTR knockout gallbladder epithelium. American Journal of Physiology - Renal Physiology, 2000, 279, G132-G138.	3.4	29
72	Metallothioneins regulate ATP7A trafficking and control cell viability during copper deficiency and excess. Scientific Reports, 2020, 10, 7856.	3.3	29

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73	P2Y receptors for extracellular nucleotides: Contributions to cancer progression and therapeutic implications. <i>Biochemical Pharmacology</i> , 2021, 187, 114406.	4.4	29
74	Differential agonist-induced desensitization of P2Y2 nucleotide receptors by ATP and UTP. <i>Molecular and Cellular Biochemistry</i> , 2000, 206, 75-89.	3.1	28
75	X-linked spinal muscular atrophy in mice caused by autonomous loss of ATP7A in the motor neuron. <i>Journal of Pathology</i> , 2015, 236, 241-250.	4.5	27
76	Identification of hydrolytically stable and selective P2Y1 receptor agonists. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 1525-1536.	5.5	25
77	P2X7 receptor deletion suppresses \hat{I}^3 -radiation-induced hyposalivation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 316, R687-R696.	1.8	25
78	Boranophosphate Isoster Controls P2Y-Receptor Subtype Selectivity and Metabolic Stability of Dinucleoside Polyphosphate Analogues. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 437-448.	6.4	24
79	P2Y2 receptor modulates shear stress-induced cell alignment and actin stress fibers in human umbilical vein endothelial cells. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 731-746.	5.4	24
80	Evolution, correlation, structural impact and dynamics of emerging SARS-CoV-2 variants. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3799-3809.	4.1	24
81	Conditional Knockout of the Menkes Disease Copper Transporter Demonstrates Its Critical Role in Embryogenesis. <i>PLoS ONE</i> , 2012, 7, e43039.	2.5	24
82	The role of calcium ions in the permeability changes produced by external ATP in transformed 3T3 cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 775, 381-388.	2.6	21
83	Salivary Gland Nucleotide Receptors: Changes in Expression and Activity Related to Development and Tissue Damage,. <i>Annals of the New York Academy of Sciences</i> , 1998, 842, 70-75.	3.8	21
84	On the role of protein phosphorylation in the ATP-dependent permeabilization of transformed cells. <i>Journal of Cellular Physiology</i> , 1984, 118, 124-132.	4.1	20
85	Purinergic signaling in Alzheimer's disease. <i>Brain Research Bulletin</i> , 2019, 151, 25-37.	3.0	20
86	P2Y2 receptors mediate nucleotide-induced EGFR phosphorylation and stimulate proliferation and tumorigenesis of head and neck squamous cell carcinoma cell lines. <i>Oral Oncology</i> , 2020, 109, 104808.	1.5	20
87	Mechanisms for Inhibition of P2 Receptors Signaling in Neural Cells. <i>Molecular Neurobiology</i> , 2005, 31, 065-080.	4.0	19
88	Autonomous requirements of the Menkes disease protein in the nervous system. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C660-C668.	4.6	18
89	P2 Receptors as Therapeutic Targets in the Salivary Gland: From Physiology to Dysfunction. <i>Frontiers in Pharmacology</i> , 2020, 11, 222.	3.5	18
90	P2 receptors in atherosclerosis and postangioplasty restenosis. <i>Purinergic Signalling</i> , 2007, 3, 153-162.	2.2	17

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91	Ionic dependence of the extracellular ATP-induced permeabilization of transformed mouse fibroblasts: Role of plasma membrane activities that regulate cell volume. <i>Journal of Cellular Physiology</i> , 1989, 138, 375-383.	4.1	16
92	P2Y nucleotide receptors in the immune system: Signaling by a P2Y2 receptor in U937 monocytes. <i>Drug Development Research</i> , 1998, 45, 222-228.	2.9	16
93	Differential coupling of the P2Y1 receptor to G α 14 and G α q/11 proteins during the development of the rat salivary gland. <i>Archives of Oral Biology</i> , 2006, 51, 359-370.	1.8	16
94	A Novel Insulin Secretagogue Based on a Dinucleoside Polyphosphate Scaffold. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 2472-2481.	6.4	16
95	2-MeS- β , γ -CCl ₂ -ATP is a Potent Agent for Reducing Intraocular Pressure. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 3305-3319.	6.4	16
96	Identification of a Promising Drug Candidate for the Treatment of Type 2 Diabetes Based on a P2Y ₁ Receptor Agonist. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 7623-7635.	6.4	16
97	[43] Permeabilizing mammalian cells to macromolecules. <i>Methods in Enzymology</i> , 1989, 171, 857-869.	1.0	15
98	Chapter 4 P2Y receptors in the nervous system: Molecular studies of a P2Y2 receptor subtype from NG108 α -15 neuroblastoma x glioma hybrid cells. <i>Progress in Brain Research</i> , 1999, 120, 33-43.	1.4	15
99	The P2Y ₂ receptor mediates uptake of matrix-retained and aggregated low density lipoprotein in primary vascular smooth muscle cells. <i>Atherosclerosis</i> , 2016, 252, 128-135.	0.8	14
100	The Cloning and Expression of G Protein-Coupled P2Y Nucleotide Receptors. , 1998, , 63-79.		14
101	Requirement for CD40/CD40L Interactions for Development of Autoimmunity Differs Depending on Specific Checkpoint and Costimulatory Pathways. <i>ImmunoHorizons</i> , 2018, 2, 54-66.	1.8	14
102	P2Y ₂ nucleotide receptor activation enhances the aggregation and self-organization of dispersed salivary epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C83-C96.	4.6	13
103	New Murine Model of Early Onset Autoimmune Thyroid Disease/Hypothyroidism and Autoimmune Exocrinopathy of the Salivary Gland. <i>Journal of Immunology</i> , 2016, 197, 2119-2130.	0.8	13
104	The P2Y ₂ Receptor Interacts with VE-Cadherin and VEGF Receptor-2 to Regulate Rac1 Activity in Endothelial Cells. <i>Journal of Biomedical Science and Engineering</i> , 2014, 07, 1105-1121.	0.4	13
105	P2 receptors in atherosclerosis and postangioplasty restenosis. <i>Purinergic Signalling</i> , 2006, 2, 471-480.	2.2	12
106	Development of a Novel Transgenic Rat Overexpressing the P2Y ₂ Nucleotide Receptor Using a Lentiviral Vector. <i>Journal of Vascular Research</i> , 2009, 46, 447-458.	1.4	10
107	P2 Receptors in Health and Disease. <i>Biotechnology and Genetic Engineering Reviews</i> , 2006, 22, 171-196.	6.2	9
108	Indomethacin Treatment Post-irradiation Improves Mouse Parotid Salivary Gland Function via Modulation of Prostaglandin E2 Signaling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 697671.	4.1	9

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109	P2 Receptor Modeling and Identification of Ligand Binding Sites. , 1998, , 135-166.		8
110	P2Y2 receptor antagonism resolves sialadenitis and improves salivary flow in a Sjögren's syndrome mouse model. Archives of Oral Biology, 2021, 124, 105067.	1.8	5
111	Cell Sheets Restore Secretory Function in Wounded Mouse Submandibular Glands. Cells, 2020, 9, 2645.	4.1	4
112	P2U Purinoceptors: cDNA Cloning, Signal Transduction Mechanisms and Structure-Function Analysis. Novartis Foundation Symposium, 1996, 198, 193-207.	1.1	4
113	The P2Y2 Nucleotide Receptor in Vascular Inflammation and Angiogenesis. , 2010, , 57-72.		2
114	<i>Why do male mice spit soluble enzymes that hydrolyze extracellular nucleotides?</i> Focus on Prostatic acid phosphatase is the main acid phosphatase with 5'-nucleotidase activity in the male mouse saliva and regulates salivation. American Journal of Physiology - Cell Physiology, 2014, 306, C997-C998.	4.6	1
115	Early Dry Eye Disease Onset in a NOD.H-2 ^{h4} Mouse Model of Sjögren's Syndrome. , 2022, 63, 18.		1
116	The P2Y2 receptor mediates uptake of matrix-retained and aggregated low-density lipoprotein in primary smooth muscle cells. FASEB Journal, 2013, 27, 373.6.	0.5	0