Ivana Novak

List of Publications by Year
in descending order

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141	11,495	53939 47	33145 104
papers	citations	h-index	g-index

161	161	161	19239
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Opposing roles of the entero-pancreatic hormone urocortin-3 in glucose metabolism in rats. Diabetologia, 2022, 65, 1018-1031.	2.9	2
2	Dimerization of mitophagy receptor BNIP3L/NIX is essential for recruitment of autophagic machinery. Autophagy, 2021, 17, 1232-1243.	4.3	117
3	The P2X7 Receptor Stimulates IL-6 Release from Pancreatic Stellate Cells and Tocilizumab Prevents Activation of STAT3 in Pancreatic Cancer Cells. Cells, 2021, 10, 1928.	1.8	15
4	A brief overview of BNIP3L/NIX receptorâ€mediated mitophagy. FEBS Open Bio, 2021, 11, 3230-3236.	1.0	23
5	Pannexinâ€1 mediated ATP release in adipocytes is sensitive to glucose and insulin and modulates lipolysis and macrophage migration. Acta Physiologica, 2020, 228, e13360.	1.8	30
6	Update of P2Y receptor pharmacology: IUPHAR Review 27. British Journal of Pharmacology, 2020, 177, 2413-2433.	2.7	151
7	Purinergic Signaling in Pancreasâ€"From Physiology to Therapeutic Strategies in Pancreatic Cancer. International Journal of Molecular Sciences, 2020, 21, 8781.	1.8	12
8	Proton Pump Inhibitors Reduce Pancreatic Adenocarcinoma Progression by Selectively Targeting H+, K+-ATPases in Pancreatic Cancer and Stellate Cells. Cancers, 2020, 12, 640.	1.7	22
9	AATF and SMARCA2 are associated with thyroid volume in Hashimotoâ€™s thyroiditis patients. Scientific Reports, 2020, 10, 1754.	1.6	11
10	The Vacuolar H+ ATPase Î±3 Subunit Negatively Regulates Migration and Invasion of Human Pancreatic Ductal Adenocarcinoma Cells. Cells, 2020, 9, 465.	1.8	14
11	Fundamentals of Bicarbonate Secretion in Epithelia. Physiology in Health and Disease, 2020, , 461-541.	0.2	1
12	Role of the P2X7 receptor in the pathogenesis of type 2 diabetes and its microvascular complications. Current Opinion in Pharmacology, 2019, 47, 75-81.	1.7	35
13	P2X receptor-ion channels in the inflammatory response in adipose tissue and pancreas â€" potential triggers in onset of type 2 diabetes?. Current Opinion in Immunology, 2018, 52, 1-7.	2.4	30
14	Autophagy Modulation in Cancer: Current Knowledge on Action and Therapy. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-18.	1.9	154
15	Deconstructing the principles of ductal network formation in the pancreas. PLoS Biology, 2018, 16, e2002842.	2.6	29
16	The P2X7 receptor and pannexin-1 are involved in glucose-induced autocrine regulation in Î²-cells. Scientific Reports, 2018, 8, 8926.	1.6	19
17	Phosphorylation of the mitochondrial autophagy receptor Nix enhances its interaction with LC3 proteins. Scientific Reports, 2017, 7, 1131.	1.6	203
18	Alternating pH landscapes shape epithelial cancer initiation and progression: Focus on pancreatic cancer. BioEssays, 2017, 39, 1600253.	1.2	53

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19	Flow Cytometer Monitoring of Bnip3- and Bnip3L/Nix-Dependent Mitophagy. Methods in Molecular Biology, 2017, 1759, 105-110.	0.4	9
20	Normal and Malignant Cells Exhibit Differential Responses to Calcium Electroporation. Cancer Research, 2017, 77, 4389-4401.	0.4	61
21	Purinergic Receptors in Adipose Tissue As Potential Targets in Metabolic Disorders. Frontiers in Pharmacology, 2017, 8, 878.	1.6	72
22	Ion channels in control of pancreatic stellate cell migration. Oncotarget, 2017, 8, 769-784.	0.8	48
23	Monocarboxylate Transporters MCT1 and MCT4 Regulate Migration and Invasion of Pancreatic Ductal Adenocarcinoma Cells. Pancreas, 2016, 45, 1036-1047.	0.5	66
24	The adenosine A2B receptor is involved in anion secretion in human pancreatic duct Capan-1 epithelial cells. Pflugers Archiv European Journal of Physiology, 2016, 468, 1171-1181.	1.3	13
25	pH-sensitive K+ channel TREK-1 is a novel target in pancreatic cancer. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1994-2003.	1.8	32
26	In silico analysis of the transportome in human pancreatic ductal adenocarcinoma. European Biophysics Journal, 2016, 45, 749-763.	1.2	14
27	Difference in Membrane Repair Capacity Between Cancer Cell Lines and a Normal Cell Line. Journal of Membrane Biology, 2016, 249, 569-576.	1.0	36
28	Targeting of the P2X7 receptor in pancreatic cancer and stellate cells. International Journal of Cancer, 2016, 139, 2540-2552.	2.3	68
29	KCa3.1 (IK) modulates pancreatic cancer cell migration, invasion and proliferation: anomalous effects on TRAM-34. Pflugers Archiv European Journal of Physiology, 2016, 468, 1865-1875.	1.3	44
30	Fundamentals of Bicarbonate Secretion in Epithelia. , 2016, , 187-263.		8
31	Identification of KCa3.1 Channel as a Novel Regulator of Oxidative Phosphorylation in a Subset of Pancreatic Carcinoma Cell Lines. PLoS ONE, 2016, 11, e0160658.	1.1	40
32	The P2X7 receptor regulates cell survival, migration and invasion of pancreatic ductal adenocarcinoma cells. Molecular Cancer, 2015, 14, 203.	7.9	96
33	Proton Pump Inhibitors Inhibit Pancreatic Secretion: Role of Gastric and Non-Gastric H+/K+-ATPases. PLoS ONE, 2015, 10, e0126432.	1.1	44
34	ANO1 (TMEM16A) in pancreatic ductal adenocarcinoma (PDAC). Pflugers Archiv European Journal of Physiology, 2015, 467, 1495-1508.	1.3	93
35	Bile acid effects are mediated by ATP release and purinergic signalling in exocrine pancreatic cells. Cell Communication and Signaling, 2015, 13, 28.	2.7	23
36	Fine-tuned ATP signals are acute mediators in osteocyte mechanotransduction. Cellular Signalling, 2015, 27, 2401-2409.	1.7	37

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37	ATP release, generation and hydrolysis in exocrine pancreatic duct cells. Purinergic Signalling, 2015, 11, 533-550.	1.1	27
38	Bile Acid and ATP Signaling in Exocrine Pancreatic Cells. FASEB Journal, 2015, 29, 973.2.	0.2	0
39	Acid-base transport in pancreatic cancer: Molecular mechanisms and clinical potential. Biochemistry and Cell Biology, 2014, 92, 449-459.	0.9	38
40	Carpal Tunnel Syndrome Is Associated With High Fibrinogen and Fibrinogen Deposits. Neurosurgery, 2014, 75, 276-285.	0.6	3
41	Role of vesicular nucleotide transporter VNUT (SLC17A9) in release of ATP from AR42J cells and mouse pancreatic acinar cells. Purinergic Signalling, 2014, 10, 431-440.	1.1	32
42	UTP-induced ATP release is a fine-tuned signalling pathway in osteocytes. Purinergic Signalling, 2014, 10, 337-347.	1.1	27
43	Purinergic signalling â€“ a possible mechanism for <scp>KCNQ</scp>1 channel response to cell volume challenges. Acta Physiologica, 2013, 207, 503-515.	1.8	8
44	Purinergic signalling and diabetes. Purinergic Signalling, 2013, 9, 307-324.	1.1	103
45	The Cystic Fibrosis of Exocrine Pancreas. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a009746-a009746.	2.9	118
46	ATP release in pancreatic acini and effects on the P2X7 receptor in pancreatic stellate cells. Pancreatology, 2013, 13, S92.	0.5	0
47	WS15.4 Purinergic signalling regulates pancreatic epithelial transport and pancreatic stellate cells. Journal of Cystic Fibrosis, 2013, 12, S30.	0.3	0
48	Molecular basis of potassium channels in pancreatic duct epithelial cells. Channels, 2013, 7, 432-441.	1.5	36
49	Acid-base transport in pancreasâ€”new challenges. Frontiers in Physiology, 2013, 4, 380.	1.3	29
50	Purinergic regulation of CFTR and Ca²⁺-activated Cl^{â^'} channels and K⁺ channels in human pancreatic duct epithelium. American Journal of Physiology - Cell Physiology, 2013, 304, C673-C684.	2.1	50
51	Ion Transport in Human Pancreatic Duct Epithelium, Capan-1 Cells, Is Regulated by Secretin, VIP, Acetylcholine, and Purinergic Receptors. Pancreas, 2013, 42, 452-460.	0.5	14
52	Modulation of Serines 17 and 24 in the LC3-interacting Region of Bnip3 Determines Pro-survival Mitophagy versus Apoptosis. Journal of Biological Chemistry, 2013, 288, 1099-1113.	1.6	374
53	Cell volume regulation in epithelial physiology and cancer. Frontiers in Physiology, 2013, 4, 233.	1.3	81
54	Clâ^' and K+ channels in human pancreatic ductal adenocarcinoma (PDAC) cells. FASEB Journal, 2013, 27, .	0.2	0

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55	pH Regulatory Transporters in Pancreatic Ductal Adenocarcinoma (PDAC). FASEB Journal, 2013, 27, 730.10.	0.2	1
56	ATP regulates Cl â^' and K + channels in human pancreatic ducts. FASEB Journal, 2013, 27, 913.18.	0.2	0
57	ATP release from exocrine pancreatic cells. FASEB Journal, 2013, 27, 729.12.	0.2	0
58	Role of H + /K + â€ATPase and Na + /Ca 2+ exchangers in pancreatic ductal adenocarcinoma cells. FASEB Journal, 2013, 27, 953.1.	0.2	1
59	An intermediate-conductance Ca²⁺-activated K⁺ channel is important for secretion in pancreatic duct cells. American Journal of Physiology - Cell Physiology, 2012, 303, C151-C159.	2.1	37
60	Elevated ammonium levels: differential acute effects on three glutamate transporter isoforms. American Journal of Physiology - Cell Physiology, 2012, 302, C880-C891.	2.1	6
61	Purinergic signalling in the pancreas in health and disease. Journal of Endocrinology, 2012, 213, 123-141.	1.2	67
62	Rab GTPase-Activating Proteins in Autophagy: Regulation of Endocytic and Autophagy Pathways by Direct Binding to Human ATG8 Modifiers. Molecular and Cellular Biology, 2012, 32, 1733-1744.	1.1	161
63	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
64	UTP and mechanical stimulation induce ATP release from osteocytes.. Bone, 2012, 50, S95.	1.4	2
65	Mitophagy: A Complex Mechanism of Mitochondrial Removal. Antioxidants and Redox Signaling, 2012, 17, 794-802.	2.5	188
66	The P2X7 Receptor Supports Both Life and Death in Fibrogenic Pancreatic Stellate Cells. PLoS ONE, 2012, 7, e51164.	1.1	55
67	Purinergic signalling in epithelial ion transport: regulation of secretion and absorption. Acta Physiologica, 2011, 202, 501-522.	1.8	62
68	Cell Volume Regulation and Signaling in 3T3-L1 Pre-adipocytes and Adipocytes: On the Possible Roles of Caveolae, Insulin Receptors, FAK and ERK1/2. Cellular Physiology and Biochemistry, 2011, 28, 1231-1246.	1.1	13
69	Pancreatic Bicarbonate Secretion Involves Two Proton Pumps. Journal of Biological Chemistry, 2011, 286, 280-289.	1.6	50
70	Autophagy receptors in developmental clearance of mitochondria. Autophagy, 2011, 7, 301-303.	4.3	64
71	ATP storage and uptake by isolated pancreatic zymogen granules. Biochemical Journal, 2010, 429, 303-311.	1.7	50
72	Nix is a selective autophagy receptor for mitochondrial clearance. EMBO Reports, 2010, 11, 45-51.	2.0	1,045

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73	Effect of P2X7receptor knockout on exocrine secretion of pancreas, salivary glands and lacrimal glands. Journal of Physiology, 2010, 588, 3615-3627.	1.3	47
74	Purinergic Receptors Stimulate Na⁺/Ca²⁺ Exchange in Pancreatic Duct Cells: Possible Role of Proteins Handling and Transporting Ca²⁺. Cellular Physiology and Biochemistry, 2009, 23, 387-396.	1.1	10
75	Cohesin SMC1Î² protects telomeres in meiocytes. Journal of Cell Biology, 2009, 187, 185-199.	2.3	81
76	ATP release and extracellular nucleotidase activity in erythrocytes and coronary circulation of rainbow trout. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 351-356.	0.8	17
77	A Role for Ubiquitin in Selective Autophagy. Molecular Cell, 2009, 34, 259-269.	4.5	1,098
78	The report on the 11th International Symposium on Exocrine Secretion. Journal of Medical Investigation, 2009, 56, 171-178.	0.2	0
79	Extracellular purinergic signaling in pancreas. Journal of Medical Investigation, 2009, 56, 355-356.	0.2	0
80	Characterization of ATP uptake into isolated pancreatic zymogen granules. FASEB Journal, 2009, 23, .	0.2	0
81	Purinergic receptors stimulate Calcium transport in pancreatic duct cells. FASEB Journal, 2009, 23, 796.18.	0.2	0
82	Purinergic receptors in the endocrine and exocrine pancreas. Purinergic Signalling, 2008, 4, 237-253.	1.1	92
83	Adenosine receptors in rat and human pancreatic ducts stimulate chloride transport. Pflugers Archiv European Journal of Physiology, 2008, 456, 437-447.	1.3	27
84	Characterization of primary cilia and Hedgehog signaling during development of the human pancreas and in human pancreatic duct cancer cell lines. Developmental Dynamics, 2008, 237, 2039-2052.	0.8	69
85	Disruption of pairing and synapsis of chromosomes causes stage-specific apoptosis of male meiotic cells. Theriogenology, 2008, 69, 333-339.	0.9	57
86	Purinergic Receptors and Calcium Signalling in Human Pancreatic Duct Cell Lines. Cellular Physiology and Biochemistry, 2008, 22, 157-168.	1.1	31
87	Cohesin Smc1Î² determines meiotic chromatin axis loop organization. Journal of Cell Biology, 2008, 180, 83-90.	2.3	123
88	Physiological and molecular mechanisms of inorganic phosphate handling in the toad Bufo bufo. Pflugers Archiv European Journal of Physiology, 2007, 454, 101-113.	1.3	11
89	Expression of calcium binding and transporting proteins in human pancreatic duct cell lines and rat pancreas. FASEB Journal, 2007, 21, A1336.	0.2	0
90	Adenosine receptors in pancreatic ducts. FASEB Journal, 2007, 21, A547.	0.2	0

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91	Mouse Embryonic Stem Cells Form Follicle-Like Ovarian Structures but Do Not Progress Through Meiosis. Stem Cells, 2006, 24, 1931-1936.	1.4	116
92	Characterization of a novel meiosis-specific protein within the central element of the synaptonemal complex. Journal of Cell Science, 2006, 119, 4025-4032.	1.2	144
93	ATP-consuming and ATP-generating Enzymes Secreted by Pancreas. Journal of Biological Chemistry, 2006, 281, 29441-29447.	1.6	46
94	P2Y2 and P2Y4 receptors regulate pancreatic Ca2+-activated K+ channels differently. Pflugers Archiv European Journal of Physiology, 2005, 450, 429-436.	1.3	31
95	Two novel proteins recruited by synaptonemal complex protein 1 (SYCP1) are at the centre of meiosis. Journal of Cell Science, 2005, 118, 2755-2762.	1.2	190
96	SYCP2 and SYCP3 are required for cohesin core integrity at diplotene but not for centromere cohesion at the first meiotic division. Journal of Cell Science, 2005, 118, 2271-2278.	1.2	89
97	Internalization of the human CRF receptor 1 is independent of classical phosphorylation sites and of beta-arrestin 1 recruitment. FEBS Journal, 2004, 271, 4366-4374.	0.2	36
98	Ion transport mechanisms in the mesonephric collecting duct system of the toad Bufo bufo: microelectrode recordings from isolated and perfused tubules. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2004, 137, 585-595.	0.8	6
99	ATP release and effects in pancreas. Drug Development Research, 2003, 59, 128-135.	1.4	8
100	Sodium and chloride transport in soft water and hard water acclimated zebrafish (Danio rerio). Biochimica Et Biophysica Acta - Biomembranes, 2003, 1618, 207-218.	1.4	140
101	ATP as a Signaling Molecule: the Exocrine Focus. Physiology, 2003, 18, 12-17.	1.6	102
102	Effect of ATP on Intracellular pH in Pancreatic Ducts Involves P2X₇ Receptors. Cellular Physiology and Biochemistry, 2003, 13, 93-102.	1.1	28
103	P2X7 receptor activates extracellular signal-regulated kinases ERK1 and ERK2 independently of Ca2+ influx. Biochemical Journal, 2003, 374, 51-61.	1.7	85
104	ATP regulation of epithelial Cl- channels - new challenges?. Journal of Physiology, 2003, 547, 1-1.	1.3	2
105	Rat pancreas secretes particulate ecto-nucleotidase CD39. Journal of Physiology, 2003, 551, 881-892.	1.3	34
106	Purinergic Receptors Have Different Effects in Rat Exocrine Pancreas. Calcium Signals Monitored by Fura-2 Using Confocal Microscopy. Cellular Physiology and Biochemistry, 2002, 12, 83-92.	1.1	29
107	Where have all the Na+ channels gone? In search of functional ENaC in exocrine pancreas. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1566, 162-168.	1.4	16
108	Regulation of the Na+/Ca2+ Exchanger in Rat Pancreatic Ducts. Journal of Membrane Biology, 2002, 186, 43-53.	1.0	12

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109	K+ transport in the mesonephric collecting duct system of the toadBufo bufo. Journal of Experimental Biology, 2002, 205, 897-904.	0.8	9
110	K(+) transport in the mesonephric collecting duct system of the toad Bufo bufo: microelectrode recordings from isolated and perfused tubules. Journal of Experimental Biology, 2002, 205, 897-904.	0.8	7
111	Secretin stimulates $${m HCO}_{m 3}^{m - } $$ and acetate efflux but not Na + / $${m HCO}_{m 3}^{m - } $$ uptake in rat pancreatic ducts. Pflugers Archiv European Journal of Physiology, 2001, 441, 761-771.	1.3	21
112	Visualization of ATP Release in Pancreatic Acini in Response to Cholinergic Stimulus. Journal of Biological Chemistry, 2001, 276, 32925-32932.	1.6	167
113	PERSPECTIVES. Journal of Physiology, 2000, 528, 235-235.	1.3	10
114	Purinoceptors Evoke Different Electrophysiological Responses in Pancreatic Ducts. Journal of Biological Chemistry, 1999, 274, 31784-31791.	1.6	76
115	Different purinergic receptors lead to intracellular calcium increases in pancreatic ducts. Pflugers Archiv European Journal of Physiology, 1998, 436, 33-39.	1.3	39
116	Î²-adrenergic regulation of ion transport in pancreatic ducts: Patch-clamp study of isolated rat pancreatic ducts. Gastroenterology, 1998, 115, 714-721.	0.6	16
117	Intracellular pH in Rat Pancreatic Ducts. Comparative Biochemistry and Physiology A, Comparative Physiology, 1997, 118, 409-411.	0.7	7
118	Evidence for a Na+â^'Ca2+exchanger in rat pancreatic ducts. FEBS Letters, 1996, 397, 298-302.	1.3	8
119	Calcium influx pathways in rat pancreatic ducts. Pflugers Archiv European Journal of Physiology, 1996, 432, 278-285.	1.3	20
120	A New Preparation of Pancreatic Ducts for Patch-Clamp Studies. Cellular Physiology and Biochemistry, 1995, 5, 344-352.	1.1	11
121	Effect of ATP, carbachol and other agonists on intracellular calcium activity and membrane voltage of pancreatic ducts. Pflugers Archiv European Journal of Physiology, 1994, 426, 412-418.	1.3	40
122	Effect of secretin and inhibitors of HCO3 ?/H+ transport on the membrane voltage of rat pancreatic duct cells. Pflugers Archiv European Journal of Physiology, 1993, 425, 272-279.	1.3	28
123	Effect of vasoactive intestinal peptide, carbachol and other agonists on the membrane voltage of pancreatic duct cells. Pflugers Archiv European Journal of Physiology, 1993, 424, 315-320.	1.3	23
124	Cellular Mechanisms of Salivary Gland Secretion. Advances in Comparative and Environmental Physiology, 1993, , 1-43.	0.5	1
125	Chloride and potassium conductances of cultured human sweat ducts. Pflugers Archiv European Journal of Physiology, 1992, 422, 151-158.	1.3	7
126	Effect of bicarbonate on potassium conductance of isolated perfused rat pancreatic ducts. Pflugers Archiv European Journal of Physiology, 1991, 419, 76-83.	1.3	50

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127	Cation transport by sweat ducts in primary culture. Ionic mechanism of cholinergically evoked current oscillations.. Journal of Physiology, 1990, 424, 109-131.	1.3	21
128	[1] Salivary secretion: Studies on intact glands in Vivo and in Vitro. Methods in Enzymology, 1990, 192, 3-15.	0.4	1
129	Acetate stimulates secretion in the rabbit mandibular gland. Pflugers Archiv European Journal of Physiology, 1989, 414, 68-72.	1.3	6
130	Electrophysiological study of transport systems in isolated perfused pancreatic ducts: properties of the basolateral membrane. Pflugers Archiv European Journal of Physiology, 1988, 411, 58-68.	1.3	104
131	Properties of the luminal membrane of isolated perfused rat pancreatic ducts. Pflugers Archiv European Journal of Physiology, 1988, 411, 546-553.	1.3	150
132	Bicarbonate transport in rat pancreatic ducts. Comparative Biochemistry and Physiology A, Comparative Physiology, 1988, 90, 834.	0.7	0
133	Choline evokes fluid secretion by perfused rat mandibular gland without desensitization. American Journal of Physiology - Renal Physiology, 1986, 251, G84-G89.	1.6	8
134	Two independent anion transport systems in rabbit mandibular salivary glands. Pflugers Archiv European Journal of Physiology, 1986, 407, 649-656.	1.3	75
135	The anionic basis of fluid secretion by the rabbit mandibular salivary gland.. Journal of Physiology, 1984, 349, 619-630.	1.3	87
136	The role of buffer anions and protons in secretion by the rabbit mandibular salivary gland.. Journal of Physiology, 1982, 322, 273-286.	1.3	35
137	Secretion of saliva by the rabbit mandibular gland in vitro : the role of anions. Philosophical Transactions of the Royal Society of London Series B, Biological Sciences, 1981, 296, 179-192.	2.4	6
138	SECRETORY PROCESSES IN THE PERFUSED RABBIT MANDIBULAR GLAND. , 1981, , 35-46.		1
139	Electrolyte and protein secretion by the perfused rabbit mandibular gland stimulated with acetylcholine or catecholamines. Journal of Physiology, 1980, 300, 467-487.	1.3	74
140	TRANSPORT OF BICARBONATE AND OTHER ANIONS IN SALIVARY SECRETION. Annals of the New York Academy of Sciences, 1980, 341, 172-190.	1.8	14
141	Nucleotide and mechanically induced ATP release pathways in osteocytes. Bone Abstracts, 0, , .	0.0	2