Pawel R Kiela

List of Publications by Year
in descending order

126 papers	3,972 citations	101384 36 h-index	128067 60 g-index
127 all docs	127 docs citations	127 times ranked	5311 citing authors

#	Article	IF	Citations
1	Physiology of Intestinal Absorption and Secretion. Bailliere's Best Practice and Research in Clinical Gastroenterology, 2016, 30, 145-159.	1.0	410
2	1Î±,25-Dihydroxyvitamin D3 upregulates FGF23 gene expression in bone: the final link in a renal-gastrointestinal-skeletal axis that controls phosphate transport. American Journal of Physiology - Renal Physiology, 2005, 289, G1036-G1042.	1.6	359
3	The Role of Curcumin in Modulating Colonic Microbiota During Colitis and Colon Cancer Prevention. Inflammatory Bowel Diseases, 2015, 21, 2483-2494.	0.9	166
4	Gut Microbial Dysbiosis May Predict Diarrhea and Fatigue in Patients Undergoing Pelvic Cancer Radiotherapy: A Pilot Study. PLoS ONE, 2015, 10, e0126312.	1.1	149
5	Efficacy and mechanism of action of turmeric supplements in the treatment of experimental arthritis. Arthritis and Rheumatism, 2006, 54, 3452-3464.	6.7	119
6	Dendritic Cell-Specific Disruption of TGF-Î² Receptor II Leads to Altered Regulatory T Cell Phenotype and Spontaneous Multiorgan Autoimmunity. Journal of Immunology, 2012, 189, 3878-3893.	0.4	119
7	Tumor Necrosis Factor and Interferon-Î³ Down-regulate Klotho in Mice With Colitis. Gastroenterology, 2010, 138, 1384-1394.e2.	0.6	115
8	Paneth Cell-Derived Lysozyme Defines the Composition of Mucolytic Microbiota and the Inflammatory Tone of the Intestine. Immunity, 2020, 53, 398-416.e8.	6.6	97
9	Advances in the understanding of mineral and bone metabolism in inflammatory bowel diseases. American Journal of Physiology - Renal Physiology, 2011, 300, G191-G201.	1.6	90
10	Vitamins and Minerals in Inflammatory Bowel Disease. Gastroenterology Clinics of North America, 2017, 46, 797-808.	1.0	84
11	Modulation of neutrophil motility by curcumin. Inflammatory Bowel Diseases, 2011, 17, 503-515.	0.9	83
12	Effects ofBoswellia serratain mouse models of chemically induced colitis. American Journal of Physiology - Renal Physiology, 2005, 288, G798-G808.	1.6	82
13	Functional and molecular characterization of NHE3 expression during ontogeny in rat jejunal epithelium. American Journal of Physiology - Cell Physiology, 1997, 273, C1937-C1946.	2.1	80
14	Colonic gene expression profile in NHE3-deficient mice: evidence for spontaneous distal colitis. American Journal of Physiology - Renal Physiology, 2008, 295, G63-G77.	1.6	78
15	Polyclonal CD4+Foxp3+ Treg cells induce TGFÎ²-dependent tolerogenic dendritic cells that suppress the murine lupus-like syndrome. Journal of Molecular Cell Biology, 2012, 4, 409-419.	1.5	73
16	Reduced colonic microbial diversity is associated with colitis in NHE3-deficient mice. American Journal of Physiology - Renal Physiology, 2013, 305, G667-G677.	1.6	71
17	Pathophysiology of Intestinal Na+/H+ Exchange. Cellular and Molecular Gastroenterology and Hepatology, 2017, 3, 27-40.	2.3	65
18	Glucocorticoid regulation and glycosylation of mouse intestinal type IIb Na-Pi cotransporter during ontogeny. American Journal of Physiology - Renal Physiology, 2002, 283, G426-G434.	1.6	64

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19	Protective effects of dietary curcumin in mouse model of chemically induced colitis are strain dependent. Inflammatory Bowel Diseases, 2008, 14, 780-793.	0.9	63
20	Changes in Mucosal Homeostasis Predispose NHE3 Knockout Mice to Increased Susceptibility to DSS-Induced Epithelial Injury. Gastroenterology, 2009, 137, 965-975.e10.	0.6	59
21	Curcumin inhibits interferon-Î³ signaling in colonic epithelial cells. American Journal of Physiology - Renal Physiology, 2012, 302, G85-G96.	1.6	59
22	Regulation of the human sodium-phosphate cotransporter NaPi-IIb gene promoter by epidermal growth factor. American Journal of Physiology - Cell Physiology, 2001, 280, C628-C636.	2.1	58
23	Transcriptional Regulation of the Rat NHE3 Gene. Journal of Biological Chemistry, 2003, 278, 5659-5668.	1.6	58
24	Microbial dysbiosis associated with impaired intestinal Na+/H+ exchange accelerates and exacerbates colitis in ex-germ free mice. Mucosal Immunology, 2018, 11, 1329-1341.	2.7	53
25	Recent advances in the renalâ€“skeletalâ€“gut axis that controls phosphate homeostasis. Laboratory Investigation, 2009, 89, 7-14.	1.7	51
26	Epithelial Transport in Inflammatory Bowel Diseases. Inflammatory Bowel Diseases, 2014, 20, 1.	0.9	50
27	Clinical Characteristics Associated With Postoperative Intestinal Epithelial Barrier Dysfunction in Children With Congenital Heart Disease*. Pediatric Critical Care Medicine, 2015, 16, 37-44.	0.2	49
28	The Role of Tumor Necrosis Factor Î± in Down-Regulation of Osteoblast Phex Gene Expression in Experimental Murine Colitis. Gastroenterology, 2006, 131, 497-509.	0.6	47
29	Dynamics of dark fermentation microbial communities in the light of lactate and butyrate production. Microbiome, 2021, 9, 158.	4.9	47
30	Regulation of the rat NHE3 gene promoter by sodium butyrate. American Journal of Physiology - Renal Physiology, 2001, 281, G947-G956.	1.6	43
31	1,25-Dihydroxyvitamin D3 Down-regulation of PHEX Gene Expression Is Mediated by Apparent Repression of a 110 kDa Transfactor That Binds to a Polyadenine Element in the Promoter. Journal of Biological Chemistry, 2004, 279, 46406-46414.	1.6	43
32	Cardiac glycoside downregulates NHE3 activity and expression in LLC-PK1 cells. American Journal of Physiology - Renal Physiology, 2006, 290, F997-F1008.	1.3	43
33	Ion transport in the intestine. Current Opinion in Gastroenterology, 2009, 25, 87-91.	1.0	42
34	SLC9 Gene Family: Function, Expression, and Regulation. , 2018, 8, 555-583.		42
35	Molecular mechanism of rat NHE3 gene promoter regulation by sodium butyrate. American Journal of Physiology - Cell Physiology, 2007, 293, C64-C74.	2.1	41
36	Epidermal growth factor regulation of rat NHE2 gene expression. American Journal of Physiology - Cell Physiology, 2001, 281, C504-C513.	2.1	40

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37	Cell Confluence-induced Activation of Signal Transducer and Activator of Transcription-3 (Stat3) Triggers Epithelial Dome Formation via Augmentation of Sodium Hydrogen Exchanger-3 (NHE3) Expression. Journal of Biological Chemistry, 2007, 282, 9883-9894.	1.6	37
38	Increased NHE2 expression in rat intestinal epithelium during ontogeny is transcriptionally mediated. American Journal of Physiology - Cell Physiology, 1998, 275, C1143-C1150.	2.1	36
39	Age- and tissue-specific induction of NHE3 by glucocorticoids in the rat small intestine. American Journal of Physiology - Cell Physiology, 2000, 278, C629-C637.	2.1	35
40	Reduced Epithelial Na+/H+ Exchange Drives Gut Microbial Dysbiosis and Promotes Inflammatory Response in T Cell-Mediated Murine Colitis. PLoS ONE, 2016, 11, e0152044.	1.1	35
41	Transcriptional Reprogramming and Resistance to Colonic Mucosal Injury in Poly(ADP-ribose) Polymerase 1 (PARP1)-deficient Mice. Journal of Biological Chemistry, 2016, 291, 8918-8930.	1.6	35
42	Post-Translational Loss of Renal TRPV5 Calcium Channel Expression, Ca2+ Wasting, and Bone Loss in Experimental Colitis. Gastroenterology, 2013, 145, 613-624.	0.6	33
43	pTyr421 Cortactin Is Overexpressed in Colon Cancer and Is Dephosphorylated by Curcumin: Involvement of Non-Receptor Type 1 Protein Tyrosine Phosphatase (PTPN1). PLoS ONE, 2014, 9, e85796.	1.1	29
44	Emerging Roles of Disabled Homolog 2 (DAB2) in Immune Regulation. Frontiers in Immunology, 2020, 11, 580302.	2.2	28
45	Regulation of Na+/H+ exchanger-NHE3 by angiotensin-II in OKP cells. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 519-526.	1.4	27
46	Effects of intraduodenal administration of tarazepide on pancreatic secretion and duodenal EMG in neonatal calves. Regulatory Peptides, 1998, 78, 113-123.	1.9	26
47	Ontogeny of basolateral membrane sodium-hydrogen exchange (NHE) activity and mRNA expression of NHE-1 and NHE-4 in rat kidney and jejunum. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1369, 247-258.	1.4	26
48	Cell confluency-induced Stat3 activation regulates NHE3 expression by recruiting Sp1 and Sp3 to the proximalNHE3promoter region during epithelial dome formation. American Journal of Physiology - Cell Physiology, 2009, 296, C13-C24.	2.1	26
49	Intestinal Epithelial Expression of MHCII Determines Severity of Chemical, T-Cellâ€“Induced, and Infectious Colitis in Mice. Gastroenterology, 2020, 159, 1342-1356.e6.	0.6	26
50	Small intestinal ion transport. Current Opinion in Gastroenterology, 2012, 28, 130-134.	1.0	25
51	Transforming Growth Factor Beta Signaling in Dendritic Cells Is Required for Immunotolerance to Sperm in the Epididymis. Frontiers in Immunology, 2018, 9, 1882.	2.2	25
52	Cooperative Role of NF-ÎºB and Poly(ADP-ribose) Polymerase 1 (PARP-1) in the TNF-induced Inhibition of PHEX Expression in Osteoblasts. Journal of Biological Chemistry, 2010, 285, 34828-34838.	1.6	22
53	Rapid Downregulation of DAB2 by Toll-Like Receptor Activation Contributes to a Pro-Inflammatory Switch in Activated Dendritic Cells. Frontiers in Immunology, 2019, 10, 304.	2.2	19
54	Lack of efficacy of curcumin on neurodegeneration in the mouse model of Niemannâ€“Pick C1. Pharmacology Biochemistry and Behavior, 2012, 101, 125-131.	1.3	18

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55	Elevating EGFR-MAPK program by a nonconventional Cdc42 enhances intestinal epithelial survival and regeneration. JCI Insight, 2020, 5, .	2.3	18
56	Influence of duodenal infusion of betaine or choline on blood metabolites and duodenal electrical activity in Friesian calves. Journal of Agricultural Science, 1998, 131, 321-327.	0.6	15
57	Dynamics of Gut Microbiota Recovery after Antibiotic Exposure in Young and Old Mice (A Pilot Study). Microorganisms, 2021, 9, 647.	1.6	15
58	Differential regulation of renal sodium-phosphate transporter by glucocorticoids during rat ontogeny. American Journal of Physiology - Cell Physiology, 1999, 277, C884-C890.	2.1	14
59	Characterization of the rat intestinal Fc receptor (FcRn) promoter: transcriptional regulation of FcRn gene by the Sp family of transcription factors. American Journal of Physiology - Renal Physiology, 2004, 286, G922-G931.	1.6	14
60	Unraveling the pathophysiology of alcohol-induced thiamin deficiency. American Journal of Physiology - Renal Physiology, 2010, 299, F26-F27.	1.3	13
61	Non-canonical NRF2 activation promotes a pro-diabetic shift in hepatic glucose metabolism. Molecular Metabolism, 2021, 51, 101243.	3.0	13
62	Characterization of cis-elements required for osmotic response of rat Na+/H+exchanger-2 (NHE-2) gene. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 277, R1112-R1119.	0.9	12
63	Sp1 and Sp3 mediate NHE2 gene transcription in the intestinal epithelial cells. American Journal of Physiology - Renal Physiology, 2007, 293, G146-G153.	1.6	12
64	Enteral Crude Red Kidney Bean (Phaseolus vulgaris) Lectin â€“ Phytohemagglutinin â€“ Induces Maturational Changes in the Enterocyte Membrane Proteins of Suckling Rats. Neonatology, 2003, 84, 152-158.	0.9	11
65	From probiotics to therapeutics: another step forward?. Journal of Clinical Investigation, 2011, 121, 2149-2152.	3.9	11
66	Kinetics of pancreatic juice secretion in relation to duodenal migrating myoelectric complex in preruminant and ruminant calves fed twice daily. British Journal of Nutrition, 1997, 78, 427-442.	1.2	10
67	ZBTB32 restrains antibody responses to murine cytomegalovirus infections, but not other repetitive challenges. Scientific Reports, 2019, 9, 15257.	1.6	10
68	Sexual Dimorphism in the Response to Broad-spectrum Antibiotics During T Cell-mediated Colitis. Journal of Crohn's and Colitis, 2019, 13, 115-126.	0.6	10
69	Expression of rat, renal NHE2 and NHE3 during postnatal developmental. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1464, 7-17.	1.4	9
70	Molecular Mechanisms of Intestinal Transport of Calcium, Phosphate, and Magnesium. , 2018, , 1405-1449.		8
71	Total CD3 T Cells Are Necessary and Sufficient to Induce Colitis in Immunodeficient Mice With Dendritic Cellâ€“Specific Deletion of TGFbR2: A Novel IBD Model to Study CD4 and CD8 T-Cell Interaction. Inflammatory Bowel Diseases, 2020, 26, 229-241.	0.9	8
72	Design, Synthesis, and Testing of a Molecular Truck for Colonic Delivery of 5-Aminosalicylic Acid. ACS Medicinal Chemistry Letters, 2012, 3, 710-714.	1.3	7

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73	Role of Lymphatic Deficiency in the Pathogenesis and Progression of Inflammatory Bowel Disease to Colorectal Cancer in an Experimental Mouse Model. Inflammatory Bowel Diseases, 2019, 25, 1919-1926.	0.9	7
74	Intestinal Regulatory T Cells. Advances in Experimental Medicine and Biology, 2021, 1278, 141-190.	0.8	7
75	Alternaria alternata-induced airway epithelial signaling and inflammatory responses via protease-activated receptor-2 expression. Biochemical and Biophysical Research Communications, 2022, 591, 13-19.	1.0	7
76	Expression of Ca_v1.3 calcium channel in the human and mouse colon: posttranscriptional inhibition by IFNÎ³. American Journal of Physiology - Renal Physiology, 2017, 312, G77-G84.	1.6	6
77	Experimental Colitis Is Associated with Transcriptional Inhibition of Na+/Ca2+ Exchanger Isoform 1 (NCX1) Expression by Interferon Î³ in the Renal Distal Convoluted Tubules. Journal of Biological Chemistry, 2015, 290, 8964-8974.	1.6	5
78	Na + /H + Exchange in Mammalian Digestive Tract. , 2018, , 1273-1316.		5
79	Molecular Mechanisms of Intestinal Transport of Calcium, Phosphate, and Magnesium. , 2012, , 1877-1919.		4
80	Na+/H+ Exchange in Mammalian Digestive Tract. , 2012, , 1781-1818.		4
81	Na+-H+ Exchange in Mammalian Digestive Tract. , 2006, , 1847-1879.		4
82	Role of PARPâ€1 in the modulation of neutrophil function: relevance for inflammatory bowel disease (902.5). FASEB Journal, 2014, 28, 902.5.	0.2	4
83	Proliferation in the developing intestine is regulated by the endosomal protein Endotubin. Developmental Biology, 2021, 480, 50-61.	0.9	2
84	Molecular cloning and glucocorticoid responsiveness of the murine PHEX gene promoter. Gastroenterology, 2000, 118, A289.	0.6	1
85	275 The Role of Curcumin in Modulating Colonic Microbiota During Colitis and Colon Cancer Prevention. Gastroenterology, 2014, 146, S-66.	0.6	1
86	Mucosal Inflammation, not Microbiome, Drives the Development Colorectal Cancer During Colitis-Associated Microbial Dysbiosis. Gastroenterology, 2017, 152, S357.	0.6	1
87	Su1948 - Dynamics of Gut Microbiome Recovery after Broad-Spectrum Antibiotic Treatment in Young and Old Mice. Gastroenterology, 2018, 154, S-643.	0.6	1
88	Sodium. , 2017, , 489-501.		1
89	Curcumin Inhibits IFNâ€Î³ Signaling in Colonic Epithelial Cells. FASEB Journal, 2010, 24, 348.7.	0.2	1
90	EGF regulation of rat intestinal sodium hydrogen exchanger isoform 2 (NHE 2). Gastroenterology, 2001, 120, A304.	0.6	0

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91	976 Downregulation of Klotho in Experimental Colitis: the Role of TNFÎ± and IFN-Î³. Gastroenterology, 2008, 134, A-145.	0.6	0
92	S1724 Spontaneous Distal Colitis in NHE3-Deficient Mice. Gastroenterology, 2008, 134, A-257.	0.6	0
93	279 Changes in Mucosal Homeostasis Leading to Hypersensitivity to Mucosal Injury in NHE3 Knockout Mice. Gastroenterology, 2009, 136, A-54.	0.6	0
94	T1688 NF-Î¹B Signaling Mediates TNFÎ±-Induced Inhibition of Phex Expression. Gastroenterology, 2009, 136, A-558.	0.6	0
95	909 Lack of TGF-Beta Signaling in Dendritic Cells Leads to Systemic Autoimmunity. Gastroenterology, 2010, 138, S-129.	0.6	0
96	Renal CA 2+ Wasting in Murine Models of Crohn's Disease is Mediated by Concerted Downregulation of Klotho and TRPV5 in Distal Convoluted Tubules. Gastroenterology, 2011, 140, S-638.	0.6	0
97	Role of NHE3 in the Maintenance of Intestinal Barrier Integrity in IL-10-Deficient Mice. Gastroenterology, 2011, 140, S-634-S-635.	0.6	0
98	Tu1954 The Pathogenic Role of Poly(ADP-ribose) Polymerase 1 (PARP-1) in Experimental Colitis. Gastroenterology, 2012, 142, S-885-S-886.	0.6	0
99	Mo1619 Curcumin Reduces Migration of Human Colon Cancer Cells via Modulation of Cortactin Expression. Gastroenterology, 2012, 142, S-643.	0.6	0
100	Sa1876 Evaluation of Bone Mineral Density in Four Distinct Models of Colitis. Gastroenterology, 2012, 142, S-347.	0.6	0
101	Tu1949 Abrogation of TGF Signaling in Dendritic Cells Leads to Autoimmunity Through Regulatory T Cell Dependent and Independent Mechanisms. Gastroenterology, 2012, 142, S-884-S-885.	0.6	0
102	Tu1651 Increased Activation of Dendritic Cells Contributes to T-Cell Mediated Colitis but Not Gastritis in DC-TGFBR2 Ko Mice. Gastroenterology, 2013, 144, S-815.	0.6	0
103	Sa1841 Antagonism of TGFÎ² Signaling Pathway in Dendritic Cells by TLR Stimulation Is TRIF-Dependent. Gastroenterology, 2013, 144, S-317-S-318.	0.6	0
104	Su1135 High Vitamin D Diet Leads to a Paradoxical Decrease of Bone Mineral Density in Adoptive T-Cell Transfer Colitis. Gastroenterology, 2013, 144, S-408.	0.6	0
105	739 Alteration of the Gut Microbiome in NHE3-Deficient Mice. Gastroenterology, 2013, 144, S-133.	0.6	0
106	Tu1761 Dramatic Susceptibility to T-Cell Mediated Colitis in RAG2/NHE3 Double Knockout Mice. Gastroenterology, 2014, 146, S-836.	0.6	0
107	Tu1739 TGF-Beta Signaling in Dendritic Cells Mediates Crosstalk With Other Innate Immune Cells by Inducing the Production of Cytokines Important in Mucosal Protection. Gastroenterology, 2014, 146, S-830.	0.6	0
108	Mo1720 Relevance of Poly(ADP-ribose) Polymerase 1 (PARP1) in Experimental Colitis. Gastroenterology, 2014, 146, S-644.	0.6	0

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109	Sa1765 Role of Poly(ADP-ribose) Polymerase 1 (PARP1) in the Modulation of Neutrophil Function: Relevance in Inflammatory Bowel Diseases. Gastroenterology, 2015, 148, S-326-S-327.	0.6	0
110	Mo1775 Colonic Microbiome and Barrier Dysfunction Contribute to Susceptibility to Colitis in NHE3XRag2 Double Knockout Mice. Gastroenterology, 2015, 148, S-708.	0.6	0
111	Sa1764 Poly(ADP-ribose) Polymerase 1 (PARP1) Expression in iTreg Plays a Role in the Pathogenesis of Experimental Colitis. Gastroenterology, 2015, 148, S-326.	0.6	0
112	Tu1823 Elevated Expression of Colonic CYP3A4 May Be Responsible for Increased Local Vitamin D3 Metabolism in IBD and Experimental Colitis. Gastroenterology, 2015, 148, S-911.	0.6	0
113	542 Intrinsic Effects of Reduced NHE3 Activity in Intestinal Epithelial Cells. Gastroenterology, 2016, 150, S114.	0.6	0
114	563 Post Transcriptional Regulation of Colonic Cav1.3 by IFNÎ³ in Colitis: Potential Implications for IBD-Associated Impaired Intestinal Ca2+Absorption and Bone Loss. Gastroenterology, 2016, 150, S119.	0.6	0
115	Epithelial NA + /H + Exchange Promotes Homeostasis in the GUT Microbiome and Protects Against the Development of Colitis. Gastroenterology, 2017, 152, S184.	0.6	0
116	TGFÎ²' Signailing in Dendritic Cells is Required for the Maintenance of CD8 + CD103 + Regulatory T Cell Pool. Gastroenterology, 2017, 152, S613.	0.6	0
117	Tu1853 - Downregulation of Disabled Homolog 2 (DAB2) Expression by Microbial Components in Dendritic Cells in Inflammatory Bowel Disease Contributes to Dendritic Cells Function and Intestinal Inflammation. Gastroenterology, 2018, 154, S-1038.	0.6	0
118	61 - Decreased Expression of NHE3 in Colon Cancer Epithelium is Associated with DNA Damage, Increased Local Inflammation and Tumor Growth. Gastroenterology, 2018, 154, S-21.	0.6	0
119	Sa1671 - Long-Term Reduction of Nhe3 Expression in Colon Cancer Cells Activates Ampk, and Leads to Energy Crisis While Promoting Cell Survival and Proliferation. Gastroenterology, 2018, 154, S-349.	0.6	0
120	Tu1823 - Differential Response to Broad-Spectrum Antibiotics by the Gut Microbiota in Male and Female Mice During Colitis. Gastroenterology, 2018, 154, S-1029-S-1030.	0.6	0
121	Lack of TGFâ€beta signaling in dendritic cells leads to systemic autoimmunity. FASEB Journal, 2010, 24, 355.9.	0.2	0
122	Downregulation of agingâ€related Klotho gene in experimental colitis. FASEB Journal, 2010, 24, .	0.2	0
123	Bone loss and renal Ca 2+ wasting in experimental colitis is accompanied by downregulation of TRPV5 in renal distal convoluted tubules. FASEB Journal, 2012, 26, 867.28.	0.2	0
124	Transcriptional regulation of renal NCX1 by IFNÎ³ in colitis. FASEB Journal, 2012, 26, 867.29.	0.2	0
125	The pathogenic role of poly(ADPâ€ribose) polymerase 1 in experimental colitis (902.11). FASEB Journal, 2014, 28, 902.11.	0.2	0
126	Na+/H+ Exchangers in Epithelia. Physiology in Health and Disease, 2020, , 125-209.	0.2	0