

Jiri Pacha

List of Publications by Citations

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86
papers

1,825
citations

22
h-index

40
g-index

88
ext. papers

1,994
ext. citations

4.9
avg, IF

4.68
L-index

#	Paper	IF	Citations
86	Development of intestinal transport function in mammals. <i>Physiological Reviews</i> , 2000 , 80, 1633-67	47.9	295
85	Regulation of Na channels of the rat cortical collecting tubule by aldosterone. <i>Journal of General Physiology</i> , 1993 , 102, 25-42	3.4	185
84	Insight into the circadian clock within rat colonic epithelial cells. <i>Gastroenterology</i> , 2007 , 133, 1240-9	13.3	114
83	Cross-talk between the circadian clock and the cell cycle in cancer. <i>Annals of Medicine</i> , 2014 , 46, 221-32	1.5	91
82	Hepatic, duodenal, and colonic circadian clocks differ in their persistence under conditions of constant light and in their entrainment by restricted feeding. <i>Chronobiology International</i> , 2011 , 28, 204-15	3.6	66
81	Microbiota affects the expression of genes involved in HPA axis regulation and local metabolism of glucocorticoids in chronic psychosocial stress. <i>Brain, Behavior, and Immunity</i> , 2018 , 73, 615-624	16.6	44
80	An association between clock genes and clock-controlled cell cycle genes in murine colorectal tumors. <i>International Journal of Cancer</i> , 2013 , 132, 1032-41	7.5	44
79	Temporal gradient in the clock gene and cell-cycle checkpoint kinase Wee1 expression along the gut. <i>Chronobiology International</i> , 2009 , 26, 607-20	3.6	44
78	Circadian regulation of electrolyte absorption in the rat colon. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 301, G1066-74	5.1	42
77	11beta-hydroxysteroid dehydrogenase 1 and 2 expression in colon from patients with ulcerative colitis. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2007 , 22, 1019-23	4	37
76	Corticosterone transfer and metabolism in the dually perfused rat placenta: effect of 11beta-hydroxysteroid dehydrogenase type 2. <i>Placenta</i> , 2006 , 27, 171-80	3.4	37
75	Circadian regulation of epithelial functions in the intestine. <i>Acta Physiologica</i> , 2013 , 208, 11-24	5.6	36
74	Metabolism of corticosterone in mammalian and avian intestine. <i>General and Comparative Endocrinology</i> , 1998 , 109, 315-24	3	28
73	Local metabolism of glucocorticoids and its role in rat adjuvant arthritis. <i>Molecular and Cellular Endocrinology</i> , 2010 , 323, 155-60	4.4	26
72	Proteomic analysis of chicken eggshell cuticle membrane layer. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 7633-40	4.4	25
71	Heterogeneous expression of melatonin receptor MT1 mRNA in the rat intestine under control and fasting conditions. <i>Journal of Pineal Research</i> , 2006 , 41, 183-8	10.4	25
70	Peripheral circadian clocks are diversely affected by adrenalectomy. <i>Chronobiology International</i> , 2016 , 33, 520-9	3.6	25

69	Chronic intermittent hypoxia induces 11beta-hydroxysteroid dehydrogenase in rat heart. <i>Endocrinology</i> , 2009 , 150, 4270-7	4.8	24
68	Colitis up-regulates local glucocorticoid activation and down-regulates inactivation in colonic tissue. <i>Scandinavian Journal of Gastroenterology</i> , 2004 , 39, 549-53	2.4	24
67	Corticosterone metabolism in chicken tissues: evidence for tissue-specific distribution of steroid dehydrogenases. <i>General and Comparative Endocrinology</i> , 2006 , 147, 377-83	3	23
66	11 beta-Hydroxysteroid dehydrogenase in developing rat intestine. <i>Journal of Endocrinology</i> , 1996 , 148, 561-6	4.7	23
65	Development and entrainment of the colonic circadian clock during ontogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 306, G346-56	5.1	22
64	Interactions Between Gut Microbiota and Acute Restraint Stress in Peripheral Structures of the Hypothalamic-Pituitary-Adrenal Axis and the Intestine of Male Mice. <i>Frontiers in Immunology</i> , 2019 , 10, 2655	8.4	22
63	Upregulation of 11hydroxysteroid dehydrogenase 1 in lymphoid organs during inflammation in the rat. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011 , 126, 19-25	5.1	21
62	Expression of 11beta-hydroxysteroid dehydrogenase types 1 and 2 in colorectal cancer. <i>Cancer Letters</i> , 2004 , 210, 95-100	9.9	19
61	Regulation of amiloride-sensitive Na ⁺ transport in immature rat distal colon by aldosterone. <i>Pediatric Research</i> , 1995 , 38, 356-60	3.2	19
60	Differential impact of stress on hypothalamic-pituitary-adrenal axis: gene expression changes in Lewis and Fisher rats. <i>Psychoneuroendocrinology</i> , 2015 , 53, 49-59	5	18
59	Dexamethasone and betamethasone administration during pregnancy affects expression and function of 11 beta-hydroxysteroid dehydrogenase type 2 in the rat placenta. <i>Reproductive Toxicology</i> , 2009 , 28, 46-51	3.4	18
58	Glucocorticoid availability in colonic inflammation of rat. <i>Digestive Diseases and Sciences</i> , 2008 , 53, 2160-7	4	18
57	Distribution of 11 beta-hydroxysteroid dehydrogenase along the rat intestine. <i>Life Sciences</i> , 1994 , 54, 745-9	6.8	18
56	Separation and identification of corticosterone metabolites by liquid chromatography--electrospray ionization mass spectrometry. <i>Biomedical Applications</i> , 1999 , 726, 59-69		17
55	Relationship between dietary Na ⁺ intake, aldosterone and colonic amiloride-sensitive Na ⁺ transport. <i>British Journal of Nutrition</i> , 1995 , 73, 633-40	3.6	17
54	Na,K-ATPase and the development of Na ⁺ transport in rat distal colon. <i>Journal of Membrane Biology</i> , 1991 , 120, 201-10	2.3	17
53	Mechanisms of hormonal regulation of the peripheral circadian clock in the colon. <i>Chronobiology International</i> , 2017 , 34, 1-16	3.6	16
52	Cloning and expression of chicken 20-hydroxysteroid dehydrogenase. <i>Journal of Molecular Endocrinology</i> , 2006 , 37, 453-62	4.5	16

51	Amiloride-sensitive sodium transport of the rat distal colon during early postnatal development. <i>Pflugers Archiv European Journal of Physiology</i> , 1987 , 409, 194-9	4.6	16
50	Melatonin inhibits prostaglandin E2- and sodium nitroprusside-induced ion secretion in rat distal colon. <i>European Journal of Pharmacology</i> , 2008 , 581, 164-70	5.3	15
49	Expression profiles of proliferative and antiapoptotic genes in sporadic and colitis-related mouse colon cancer models. <i>International Journal of Experimental Pathology</i> , 2010 , 91, 44-53	2.8	14
48	Chicken 11beta-hydroxysteroid dehydrogenase type 2: partial cloning and tissue distribution. <i>Steroids</i> , 2008 , 73, 348-55	2.8	13
47	Carbenoxolone accelerates maturation of rat intestine. <i>Pediatric Research</i> , 2003 , 53, 808-13	3.2	13
46	Glucocorticoid metabolism and Na ⁺ transport in chicken intestine. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005 , 303, 113-22		13
45	Potassium secretion by neonatal rat distal colon. <i>Pflugers Archiv European Journal of Physiology</i> , 1987 , 410, 362-8	4.6	13
44	Enhanced expression of proliferative and antiapoptotic genes in ulcerative colitis-associated neoplasia. <i>Inflammatory Bowel Diseases</i> , 2010 , 16, 1127-37	4.5	12
43	Corticosteroid effect on Caco-2 cell lipids depends on cell differentiation. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2003 , 87, 157-65	5.1	11
42	Effect of cellular differentiation on 11beta-hydroxysteroid dehydrogenase activity in the intestine. <i>Steroids</i> , 2002 , 67, 119-26	2.8	11
41	Localization of Na,K-ATPase activity in developing rat distal colon: role of corticosteroids. <i>Mechanisms of Ageing and Development</i> , 1998 , 101, 129-43	5.6	10
40	Cloning of chicken 11beta-hydroxysteroid dehydrogenase type 1 and its tissue distribution. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008 , 111, 217-24	5.1	10
39	Intestinal inflammation modulates expression of 11beta-hydroxysteroid dehydrogenase in murine gut. <i>Journal of Endocrinology</i> , 2006 , 191, 497-503	4.7	10
38	11beta-Hydroxysteroid dehydrogenase in the heart of normotensive and hypertensive rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2005 , 94, 273-7	5.1	10
37	Application of liquid chromatography-electrospray ionization mass spectrometry for study of steroid-converting enzymes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 800, 145-53	3.2	10
36	Hormonal regulation of intestinal 11beta-hydroxysteroid dehydrogenase. <i>Life Sciences</i> , 1997 , 61, 2391-66.8		9
35	Hypothyroidism affects the expression of electrogenic amiloride-sensitive sodium transport in rat colon. <i>Gastroenterology</i> , 1996 , 111, 1551-7	13.3	8
34	Placental 11beta-hydroxysteroid dehydrogenase in Dahl and spontaneously hypertensive rats. <i>American Journal of Hypertension</i> , 2003 , 16, 401-6	2.3	7

33	11Beta-hydroxysteroid dehydrogenase activity in spontaneously hypertensive and Dahl rats. <i>American Journal of Hypertension</i> , 2000 , 13, 927-33	2.3	7
32	The influence of high salt intake on intestinal Na,K-ATPase in Wistar and Dahl rats. <i>Acta Physiologica Scandinavica</i> , 1993 , 148, 69-75		7
31	Distinct effect of stress on 11beta-hydroxysteroid dehydrogenase type 1 and corticosteroid receptors in dorsal and ventral hippocampus. <i>Physiological Research</i> , 2014 , 63, 255-61	2.1	7
30	Peroxisome proliferator-activated receptor-βstimulates 11βhydroxysteroid dehydrogenase type 1 in rat vascular smooth muscle cells. <i>Steroids</i> , 2011 , 76, 577-81	2.8	6
29	Correlation of function and structure in developing rat distal colon. <i>Cell and Tissue Research</i> , 1997 , 288, 95-9	4.2	6
28	Aldosterone alters the phospholipid composition of rat colonocytes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2000 , 73, 11-7	5.1	6
27	Thermogenesis due to noradrenaline in muscles under different rates of perfusion. <i>Pflugers Archiv European Journal of Physiology</i> , 1983 , 397, 149-51	4.6	6
26	Regulation of 11βhydroxysteroid dehydrogenase type 1 and 7βhydroxylase CYP7B1 during social stress. <i>PLoS ONE</i> , 2014 , 9, e89421	3.7	6
25	Diurnal expression of ABC and SLC transporters in jejunum is modulated by adrenalectomy. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019 , 226, 108607	3.2	5
24	Sodium balance and jejunal ion and water absorption in Dahl salt-sensitive and salt-resistant rats. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1998 , 25, 220-4	3	5
23	Reciprocal changes in maternal and fetal metabolism of corticosterone in rat during gestation. <i>Reproductive Sciences</i> , 2008 , 15, 921-31	3	5
22	Intracellular pH regulation in colonocytes of rat proximal colon. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2001 , 1536, 103-15	6.9	5
21	The role of the microbiome and psychosocial stress in the expression and activity of drug metabolizing enzymes in mice. <i>Scientific Reports</i> , 2020 , 10, 8529	4.9	5
20	Membrane properties of rat colonic crypts during early postnatal development. <i>Cellular Physiology and Biochemistry</i> , 2003 , 13, 385-90	3.9	4
19	Inflammation regulates 11βhydroxysteroid dehydrogenase type 1 differentially in specific compartments of the gut mucosal immune system. <i>Steroids</i> , 2017 , 126, 66-73	2.8	3
18	The role of 11 beta-hydroxysteroid dehydrogenase in maturation of the intestine. <i>Mechanisms of Ageing and Development</i> , 1997 , 98, 139-50	5.6	3
17	Ontogeny of Na ⁺ transport in rat colon. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1997 , 118, 209-10		3
16	Sexual dimorphism of 11beta-hydroxysteroid dehydrogenase in hypertensive and normotensive rats. <i>Hypertension Research</i> , 2003 , 26, 333-8	4.7	3

15	Permissive effect of thyroid hormones on induction of rat colonic Na ⁺ transport by aldosterone is not localised at the level of Na ⁺ channel transcription. <i>Molecular and Cellular Endocrinology</i> , 2000 , 159, 179-85	4.4	2
14	Low-protein diet decreases intestinal Na,K-ATPase. <i>Nutrition Research</i> , 1996 , 16, 991-998	4	2
13	The Gut Microbiota Affects Corticosterone Production in the Murine Small Intestine. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
12	Intestinal sodium/glucose cotransporter 3 expression is epithelial and downregulated in obesity. <i>Life Sciences</i> , 2021 , 267, 118974	6.8	2
11	Local metabolism of glucocorticoids in Prague hereditary hypertriglyceridemic rats--effect of hypertriglyceridemia and gender. <i>Steroids</i> , 2011 , 76, 1252-9	2.8	1
10	Corticosteroid induction of renal and intestinal K(+)-dependent p-nitrophenylphosphatase in young and adult rats. <i>The Histochemical Journal</i> , 1996 , 28, 625-34		1
9	Social defeat stimulates local glucocorticoid regeneration in lymphoid organs. <i>Endocrine Connections</i> , 2018 , 7, 1389-1396	3.5	1
8	Effects of aging and tumorigenesis on coupling between the circadian clock and cell cycle in colonic mucosa. <i>Mechanisms of Ageing and Development</i> , 2020 , 190, 111317	5.6	1
7	Circadian regulation of transporter expression and implications for drug disposition. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2021 , 17, 425-439	5.5	0
6	Age-dependent effect of secretagogues during colonic maturation. <i>European Journal of Pharmacology</i> , 2005 , 516, 268-75	5.3	
5	Apical ouabain-sensitive and ouabain-insensitive ATPases in rat colonic epithelium. <i>Acta Histochemica</i> , 2002 , 104, 407-11	2	
4	Identification of apamin binding sites in rat intestinal mucosa. <i>Life Sciences</i> , 1992 , 51, 423-9	6.8	
3	Lymphatic transport rate of noradrenaline during adrenergic thermogenesis. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1986 , 83, 161-4		
2	Intestinal Sodium Glucose Transporter 3 (SGLT3) is Downregulated in Experimental Models of Obesity and in Morbidly Obese Patients. <i>FASEB Journal</i> , 2018 , 32, 670.46	0.9	
1	Expression of 11hydroxysteroid dehydrogenase type 2 is deregulated in colon carcinoma. <i>Histology and Histopathology</i> , 2014 , 29, 489-96	1.4	