Jiri Pacha

List of Publications by Year in descending order

88 papers	2,171 citations	279798 23 h-index	254184 43 g-index
88 all docs	88 docs citations	88 times ranked	2622 citing authors

#	Article	IF	Citations
1	Development of Intestinal Transport Function in Mammals. Physiological Reviews, 2000, 80, 1633-1667.	28.8	334
2	Regulation of Na channels of the rat cortical collecting tubule by aldosterone.. Journal of General Physiology, 1993, 102, 25-42.	1.9	199
3	Insight Into the Circadian Clock Within Rat Colonic Epithelial Cells. Gastroenterology, 2007, 133, 1240-1249.	1.3	131
4	Cross-talk between the circadian clock and the cell cycle in cancer. Annals of Medicine, 2014, 46, 221-232.	3.8	114
5	Microbiota affects the expression of genes involved in HPA axis regulation and local metabolism of glucocorticoids in chronic psychosocial stress. Brain, Behavior, and Immunity, 2018, 73, 615-624.	4.1	76
6	Hepatic, Duodenal, and Colonic Circadian Clocks Differ in their Persistence under Conditions of Constant Light and in their Entrainment by Restricted Feeding. Chronobiology International, 2011, 28, 204-215.	2.0	75
7	Circadian regulation of epithelial functions in the intestine. Acta Physiologica, 2013, 208, 11-24.	3.8	54
8	An association between clock genes and clockâ€controlled cell cycle genes in murine colorectal tumors. International Journal of Cancer, 2013, 132, 1032-1041.	5.1	54
9	Temporal Gradient in the Clock Gene and Cell-Cycle Checkpoint KinaseWee1Expression along the Gut. Chronobiology International, 2009, 26, 607-620.	2.0	51
10	Circadian regulation of electrolyte absorption in the rat colon. American Journal of Physiology - Renal Physiology, 2011, 301, G1066-G1074.	3.4	50
11	Interactions Between Gut Microbiota and Acute Restraint Stress in Peripheral Structures of the Hypothalamicâ€“Pituitaryâ€“Adrenal Axis and the Intestine of Male Mice. Frontiers in Immunology, 2019, 10, 2655.	4.8	43
12	Corticosterone Transfer and Metabolism in the Dually Perfused Rat Placenta: Effect of 11Î²-hydroxysteroid Dehydrogenase Type 2. Placenta, 2006, 27, 171-180.	1.5	40
13	11Î²â€hydroxysteroid dehydrogenase 1 and 2 expression in colon from patients with ulcerative colitis. Journal of Gastroenterology and Hepatology (Australia), 2007, 22, 1019-1023.	2.8	39
14	Metabolism of Corticosterone in Mammalian and Avian Intestine. General and Comparative Endocrinology, 1998, 109, 315-324.	1.8	31
15	Heterogeneous expression of melatonin receptor MT1 mRNA in the rat intestine under control and fasting conditions. Journal of Pineal Research, 2006, 41, 183-188.	7.4	30
16	Proteomic analysis of chicken eggshell cuticle membrane layer. Analytical and Bioanalytical Chemistry, 2014, 406, 7633-7640.	3.7	30
17	Development and entrainment of the colonic circadian clock during ontogenesis. American Journal of Physiology - Renal Physiology, 2014, 306, G346-G356.	3.4	28
18	Peripheral circadian clocks are diversely affected by adrenalectomy. Chronobiology International, 2016, 33, 520-529.	2.0	28

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19	Chronic Intermittent Hypoxia Induces 11Î²-Hydroxysteroid Dehydrogenase in Rat Heart. Endocrinology, 2009, 150, 4270-4277.	2.8	27
20	Local metabolism of glucocorticoids and its role in rat adjuvant arthritis. Molecular and Cellular Endocrinology, 2010, 323, 155-160.	3.2	27
21	Colitis upâ€regulates local glucocorticoid activation and downâ€regulates inactivation in colonic tissue. Scandinavian Journal of Gastroenterology, 2004, 39, 549-553.	1.5	26
22	Corticosterone metabolism in chicken tissues: Evidence for tissue-specific distribution of steroid dehydrogenases. General and Comparative Endocrinology, 2006, 147, 377-383.	1.8	25
23	11Î²-Hydroxysteroid dehydrogenase in developing rat intestine. Journal of Endocrinology, 1996, 148, 561-566.	2.6	24
24	Expression of 11Î²-hydroxysteroid dehydrogenase types 1 and 2 in colorectal cancer. Cancer Letters, 2004, 210, 95-100.	7.2	23
25	Upregulation of 11Î²-hydroxysteroid dehydrogenase 1 in lymphoid organs during inflammation in the rat. Journal of Steroid Biochemistry and Molecular Biology, 2011, 126, 19-25.	2.5	23
26	Differential impact of stress on hypothalamicâ€“pituitaryâ€“adrenal axis: Gene expression changes in Lewis and Fisher rats. Psychoneuroendocrinology, 2015, 53, 49-59.	2.7	22
27	Mechanisms of hormonal regulation of the peripheral circadian clock in the colon. Chronobiology International, 2017, 34, 1-16.	2.0	22
28	Distribution of 11Î²-hydroxysteroid dehydrogenase along the rat intestine. Life Sciences, 1994, 54, 745-749.	4.3	20
29	Separation and identification of corticosterone metabolites by liquid chromatographyâ€“electrospray ionization mass spectrometry. Biomedical Applications, 1999, 726, 59-69.	1.7	20
30	Dexamethasone and betamethasone administration during pregnancy affects expression and function of 11Î²-hydroxysteroid dehydrogenase type 2 in the rat placenta. Reproductive Toxicology, 2009, 28, 46-51.	2.9	20
31	Na, K-ATPase and the development of Na+ transport in rat distal colon. Journal of Membrane Biology, 1991, 120, 201-210.	2.1	19
32	Regulation of Amiloride-Sensitive Na+ Transport in Immature Rat Distal Colon by Aldosterone. Pediatric Research, 1995, 38, 356-360.	2.3	19
33	Amiloride-sensitive sodium transport of the rat distal colon during early postnatal development. Pflugers Archiv European Journal of Physiology, 1987, 409, 194-199.	2.8	18
34	Relationship between dietary Na+ intake, aldosterone and colonic amiloride-sensitive Na+ transport. British Journal of Nutrition, 1995, 73, 633-640.	2.3	18
35	Cloning and expression of chicken 20-hydroxysteroid dehydrogenase. Journal of Molecular Endocrinology, 2006, 37, 453-462.	2.5	18
36	Glucocorticoid Availability in Colonic Inflammation of Rat. Digestive Diseases and Sciences, 2008, 53, 2160-2167.	2.3	18

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37	Melatonin inhibits prostaglandin E2- and sodium nitroprusside-induced ion secretion in rat distal colon. European Journal of Pharmacology, 2008, 581, 164-170.	3.5	18
38	The Gut Microbiota Affects Corticosterone Production in the Murine Small Intestine. International Journal of Molecular Sciences, 2021, 22, 4229.	4.1	15
39	Potassium secretion by neonatal rat distal colon. Pflugers Archiv European Journal of Physiology, 1987, 410, 362-368.	2.8	14
40	Intestinal inflammation modulates expression of 11Î²-hydroxysteroid dehydrogenase in murine gut. Journal of Endocrinology, 2006, 191, 497-503.	2.6	14
41	Chicken 11Î²-hydroxysteroid dehydrogenase type 2: Partial cloning and tissue distribution. Steroids, 2008, 73, 348-355.	1.8	14
42	Expression profiles of proliferative and antiapoptotic genes in sporadic and colitisâ€related mouse colon cancer models. International Journal of Experimental Pathology, 2010, 91, 44-53.	1.3	14
43	Effect of cellular differentiation on 11Î²-hydroxysteroid dehydrogenase activity in the intestine. Steroids, 2002, 67, 119-126.	1.8	13
44	Carbenoxolone Accelerates Maturation of Rat Intestine. Pediatric Research, 2003, 53, 808-813.	2.3	13
45	Application of liquid chromatographyâ€“electrospray ionization mass spectrometry for study of steroid-converting enzymes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 800, 145-153.	2.3	13
46	Glucocorticoid metabolism and Na+transport in chicken intestine. Journal of Experimental Zoology Part A, Comparative Experimental Biology, 2005, 303A, 113-122.	1.3	13
47	Localization of Na,K-ATPase activity in developing rat distal colon: role of corticosteroids. Mechanisms of Ageing and Development, 1998, 101, 129-143.	4.6	12
48	Cloning of chicken 11Î²-hydroxysteroid dehydrogenase type 1 and its tissue distribution. Journal of Steroid Biochemistry and Molecular Biology, 2008, 111, 217-224.	2.5	12
49	Enhanced expression of proproliferative and antiapoptotic genes in ulcerative colitis-associated neoplasia. Inflammatory Bowel Diseases, 2010, 16, 1127-1137.	1.9	12
50	Corticosteroid effect on Caco-2 cell lipids depends on cell differentiation. Journal of Steroid Biochemistry and Molecular Biology, 2003, 87, 157-165.	2.5	11
51	11Î²-Hydroxysteroid dehydrogenase in the heart of normotensive and hypertensive rats. Journal of Steroid Biochemistry and Molecular Biology, 2005, 94, 273-277.	2.5	11
52	The role of the microbiome and psychosocial stress in the expression and activity of drug metabolizing enzymes in mice. Scientific Reports, 2020, 10, 8529.	3.3	11
53	Hormonal regulation of intestinal 11Î²-hydroxysteroid dehydrogenase. Life Sciences, 1997, 61, 2391-2396.	4.3	10
54	Diurnal expression of ABC and SLC transporters in jejunum is modulated by adrenalectomy. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 226, 108607.	2.6	10

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55	Circadian regulation of transporter expression and implications for drug disposition. Expert Opinion on Drug Metabolism and Toxicology, 2021, 17, 425-439.	3.3	10
56	Intestinal sodium/glucose cotransporter 3 expression is epithelial and downregulated in obesity. Life Sciences, 2021, 267, 118974.	4.3	9
57	Regulation of 11Î²-Hydroxysteroid Dehydrogenase Type 1 and 7Î±-Hydroxylase CYP7B1 during Social Stress. PLoS ONE, 2014, 9, e89421.	2.5	9
58	Hypothyroidism affects the expression of electrogenic amiloride- sensitive sodium transport in rat colon. Gastroenterology, 1996, 111, 1551-1557.	1.3	8
59	SODIUM BALANCE AND JEJUNAL ION AND WATER ABSORPTION IN DAHL SALTâ€SENSITIVE AND SALTâ€RESISTANT RATS. Clinical and Experimental Pharmacology and Physiology, 1998, 25, 220-224.	1.9	8
60	11Â-hydroxysteroid dehydrogenase activity in spontaneously hypertensive and Dahl rats. American Journal of Hypertension, 2000, 13, 927-933.	2.0	8
61	Placental 11Î²-hydroxysteroid dehydrogenase in Dahl and spontaneously hypertensive rats. American Journal of Hypertension, 2003, 16, 401-406.	2.0	8
62	Reciprocal Changes in Maternal and Fetal Metabolism of Corticosterone in Rat During Gestation. Reproductive Sciences, 2008, 15, 921-931.	2.5	8
63	Thermogenesis due to noradrenaline in muscles under different rates of perfusion. Pflugers Archiv European Journal of Physiology, 1983, 397, 149-151.	2.8	7
64	The influence of high salt intake on intestinal Na,Kâ€ATPase in Wistar and Dahl rats. Acta Physiologica Scandinavica, 1993, 148, 69-75.	2.2	7
65	Correlation of function and structure in developing rat distal colon. Cell and Tissue Research, 1997, 288, 95-99.	2.9	7
66	Distinct Effect of Stress on 11Î²-Hydroxysteroid Dehydrogenase Type 1 and Corticosteroid Receptors in Dorsal and Ventral Hippocampus. Physiological Research, 2014, 63, 255-261.	0.9	7
67	Aldosterone alters the phospholipid composition of rat colonocytes. Journal of Steroid Biochemistry and Molecular Biology, 2000, 73, 11-17.	2.5	6
68	Intracellular pH regulation in colonocytes of rat proximal colon. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2001, 1536, 103-115.	3.8	6
69	Peroxisome proliferator-activated receptor-Î³ stimulates 11Î²-hydroxysteroid dehydrogenase type 1 in rat vascular smooth muscle cells. Steroids, 2011, 76, 577-581.	1.8	6
70	The role of 11Î²-hydroxysteroid dehydrogenase in maturation of the intestine. Mechanisms of Ageing and Development, 1997, 98, 139-150.	4.6	4
71	Membrane Properties of Rat Colonic Crypts During Early Postnatal Development. Cellular Physiology and Biochemistry, 2003, 13, 385-390.	1.6	4
72	Ontogeny of Na+ Transport in Rat Colon. Comparative Biochemistry and Physiology A, Comparative Physiology, 1997, 118, 209-210.	0.6	3

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73	Inflammation regulates 11Î²-hydroxysteroid dehydrogenase type 1 differentially in specific compartments of the gut mucosal immune system. Steroids, 2017, 126, 66-73.	1.8	3
74	Sexual Dimorphism of 11.BETA.-Hydroxysteroid Dehydrogenase in Hypertensive and Normotensive Rats. Hypertension Research, 2003, 26, 333-338.	2.7	3
75	Social defeat stimulates local glucocorticoid regeneration in lymphoid organs. Endocrine Connections, 2018, 7, 1389-1396.	1.9	3
76	Identification of apamin binding sites in rat intestinal mucosa. Life Sciences, 1992, 51, 423-429.	4.3	2
77	Low-protein diet decreases intestinal Na,K-ATPase. Nutrition Research, 1996, 16, 991-998.	2.9	2
78	Corticosteroid induction of renal and intestinal K+-dependentp-nitrophenylphosphatase in young and adult rats. The Histochemical Journal, 1996, 28, 625-634.	0.6	2
79	Permissive effect of thyroid hormones on induction of rat colonic Na+ transport by aldosterone is not localised at the level of Na+ channel transcription. Molecular and Cellular Endocrinology, 2000, 159, 179-185.	3.2	2
80	Effects of aging and tumorigenesis on coupling between the circadian clock and cell cycle in colonic mucosa. Mechanisms of Ageing and Development, 2020, 190, 111317.	4.6	2
81	Local metabolism of glucocorticoids in Prague hereditary hypertriglyceridemic rats â€“ Effect of hypertriglyceridemia and gender. Steroids, 2011, 76, 1252-1259.	1.8	1
82	Lymphatic transport rate of noradrenaline during adrenergic thermogenesis. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1986, 83, 161-164.	0.2	0
83	Apical ouabain-sensitive and ouabain-insensitive ATPases in rat colonic epithelium. Acta Histochemica, 2002, 104, 407-411.	1.8	0
84	Age-dependent effect of secretagogues during colonic maturation. European Journal of Pharmacology, 2005, 516, 268-275.	3.5	0
85	159: 11beta-hydroxysteroid dehydrogenase in human colon and colonic tumors. European Journal of Cancer, 2014, 50, S35.	2.8	0
86	Deregulation of peripheral circadian clock in murine colorectal tumor deregulates the genes of cell cycle and proliferation. European Journal of Cancer, 2016, 61, S58.	2.8	0
87	Intestinal Sodium Glucose Transporter 3 (SGLT3) is Downregulated in Experimental Models of Obesity and in Morbidly Obese Patients. FASEB Journal, 2018, 32, 670.46.	0.5	0
88	Expression of 11Î²-hydroxysteroid dehydrogenase type 2 is deregulated in colon carcinoma. Histology and Histopathology, 2014, 29, 489-96.	0.7	0