Alexander O Shpakov

List of Publications by Year
in descending order

189	1,359	18	29
papers	citations	h-index	g-index
		430874	477307

198	198	198	664
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Peptides Mimicking the Third Intracellular Loop of 5-Hydroxytryptamine Receptors of the Types 1B and 6 Selectively Activate G Proteins and Receptor-Specifically Inhibit Serotonin Signaling via the Adenylyl Cyclase System. International Journal of Peptide Research and Therapeutics, 2010, 16, 95-105.	1.9	58
2	Brain signaling systems in the Type 2 diabetes and metabolic syndrome: promising target to treat and prevent these diseases. Future Science OA, 2015, 1, FSO25.	1.9	54
3	The Effect of Long-Term Intranasal Serotonin Treatment on Metabolic Parameters and Hormonal Signaling in Rats with High-Fat Diet/Low-Dose Streptozotocin-Induced Type 2 Diabetes. International Journal of Endocrinology, 2015, 2015, 1-17.	1.5	54
4	The Leptin, Dopamine and Serotonin Receptors in Hypothalamic POMC-Neurons of Normal and Obese Rodents. Neurochemical Research, 2018, 43, 821-837.	3.3	53
5	Chapter 4 Signaling Systems of Lower Eukaryotes and Their Evolution. International Review of Cell and Molecular Biology, 2008, 269, 151-282.	3.2	48
6	A novel view on the mechanisms of action of insulin and other insulin superfamily peptides: involvement of adenylyl cyclase signaling system. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 134, 11-36.	1.6	43
7	A dual role of protein kinase C in insulin signal transduction via adenylyl cyclase signaling system in muscle tissues of vertebrates and invertebrates11Abbreviations: PKC, protein kinase C (Î±, Î», Îµ, Ï•, Î¶, its) Tj ETQq1 1 0.784314 rgBT /Ov signaling mechanism; DAG, diacylglycerol; PE, phorbol esters; PMA, phorbol 12-myristate 13-acetate; PI3-K, phosphatidylinositol 3-kinase; Gs-protein, stimulatory GTP-binding protein; Gi-protein, inhib. Biochemical Pharmacology, 2001, 61, 1277-1291.	4.4	39
8	Functional defects in adenylyl cyclase signaling mechanisms of insulin and relaxin in skeletal muscles of rat with streptozotocin type 1 diabetes. Open Life Sciences, 2006, 1, 530-544.	1.4	39
9	The evidence of metabolic-improving effect of metformin in Ay/a mice with genetically-induced melanocortin obesity and the contribution of hypothalamic mechanisms to this effect. PLoS ONE, 2019, 14, e0213779.	2.5	39
10	The Influence of Intranasal Insulin on Hypothalamic-Pituitary-Thyroid Axis in Normal and Diabetic Rats. Hormone and Metabolic Research, 2015, 47, 916-924.	1.5	38
11	On the tyrosine kinase mechanism of the novel effect of insulin and insulinlike growth factor I. Biochemical Pharmacology, 1996, 52, 1867-1874.	4.4	37
12	Improvement Effect of Metformin on Female and Male Reproduction in Endocrine Pathologies and Its Mechanisms. Pharmaceuticals, 2021, 14, 42.	3.8	33
13	Involvement of the adenylyl cyclase signaling system in the action of insulin and mollusk insulin-like peptide. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1995, 112, 689-695.	1.6	32
14	Intranasal insulin affects adenyl cyclase system in rat tissues in neonatal diabetes. Open Life Sciences, 2012, 7, 33-47.	1.4	26
15	The Functional State of Hormone-Sensitive Adenylyl Cyclase Signaling System in Diabetes Mellitus. Journal of Signal Transduction, 2013, 2013, 1-16.	2.0	21
16	The Protective Effect of Insulin on Rat Cortical Neurons in Oxidative Stress and Its Dependence on the Modulation of Akt, GSK-3beta, ERK1/2, and AMPK Activities. International Journal of Molecular Sciences, 2019, 20, 3702.	4.1	21
17	Conservatism of the Insulin Signaling System in Evolution of Invertebrate and Vertebrate Animals. Journal of Evolutionary Biochemistry and Physiology, 2002, 38, 547-561.	0.6	20
18	The effect of metformin treatment on the basal and gonadotropinâ€stimulated steroidogenesis in male rats with type 2 diabetes mellitus. Andrologia, 2020, 52, e13816.	2.1	20

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19	The stimulating influence of thienopyrimidine compounds on the adenylyl cyclase signaling systems in the rat testes. Doklady Biochemistry and Biophysics, 2014, 456, 104-107.	0.9	19
20	In vitro and in vivo studies of functional activity of new low molecular weight agonists of the luteinizing hormone receptor. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2016, 10, 294-300.	0.6	19
21	Comparative Study of the Steroidogenic Effects of Human Chorionic Gonadotropin and Thieno[2,3-D]pyrimidine-Based Allosteric Agonist of Luteinizing Hormone Receptor in Young Adult, Aging and Diabetic Male Rats. International Journal of Molecular Sciences, 2020, 21, 7493.	4.1	17
22	The Effects of Separate and Combined Treatment of Male Rats with Type 2 Diabetes with Metformin and Orthosteric and Allosteric Agonists of Luteinizing Hormone Receptor on Steroidogenesis and Spermatogenesis. International Journal of Molecular Sciences, 2022, 23, 198.	4.1	16
23	Signal Protein-Derived Peptides as Functional Probes and Regulators of Intracellular Signaling. Journal of Amino Acids, 2011, 2011, 1-25.	5.8	15
24	Intratesticular, intraperitoneal, and oral administration of thienopyrimidine derivatives increases the testosterone level in male rats. Doklady Biological Sciences, 2014, 459, 326-329.	0.6	15
25	Alterations of Hormone-Sensitive Adenylyl Cyclase System in the Tissues of Rats with Long-Term Streptozotocin Diabetes and the Influence of Intranasal Insulin. Dataset Papers in Pharmacology, 2013, 2013, 1-14.	1.3	15
26	Effect of metformin on testicular expression and localization of leptin receptor and levels of leptin in the diabetic mice. Molecular Reproduction and Development, 2020, 87, 620-629.	2.0	14
27	Intranasal and Intramuscular Administration of Lysine-Palmitoylated Peptide 612â€“627 of Thyroid-Stimulating Hormone Receptor Increases the Level of Thyroid Hormones in Rats. International Journal of Peptide Research and Therapeutics, 2015, 21, 249-260.	1.9	13
28	A Novel, Adenylate Cyclase, Signaling Mechanism of Relaxin H2 Action. Annals of the New York Academy of Sciences, 2005, 1041, 305-307.	3.8	12
29	Molecular mechanisms for the effect of mastoparan on G proteins in tissues of vertebrates and invertebrates. Bulletin of Experimental Biology and Medicine, 2006, 141, 302-306.	0.8	12
30	Pleiotropic Action of Insulin-like Peptides of Mollusk,Anodonta cygnea. Annals of the New York Academy of Sciences, 2005, 1040, 464-465.	3.8	11
31	Sensitivity of Adenylyl Cyclase Signaling System of the MolluskAnodonta cygneaGanglions to Serotonin and Adrenergic Agonists. Annals of the New York Academy of Sciences, 2005, 1040, 466-468.	3.8	11
32	Adenylyl cyclase signaling mechanisms of relaxin and insulin action: Similarities and differences. Cell Biology International, 2006, 30, 533-540.	3.0	11
33	QS-type bacterial signal molecules of nonpeptide origin. Microbiology, 2009, 78, 133-143.	1.2	11
34	Biological activity in vitro and in vivo of peptides corresponding to the third intracellular loop of thyrotropin receptor. Doklady Biochemistry and Biophysics, 2012, 443, 64-67.	0.9	11
35	Alterations in Hormonal Signaling Systems in Diabetes Melitus: Origin, Causality and Specificity. Endocrinology & Metabolic Syndrome: Current Research, 2012, 01, .	0.7	11
36	Decrease in functional activity of G-proteins hormone-sensitive adenylate cyclase signaling system, during experimental type II diabetes mellitus. Bulletin of Experimental Biology and Medicine, 2006, 142, 685-689.	0.8	10

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37	Functional state of hypothalamic signaling systems in rats with type 2 diabetes mellitus treated with intranasal insulin. Journal of Evolutionary Biochemistry and Physiology, 2016, 52, 204-216.	0.6	10
38	Intranasal Insulin Restores Metabolic Parameters and Insulin Sensitivity in Rats with Metabolic Syndrome. Bulletin of Experimental Biology and Medicine, 2017, 163, 184-189.	0.8	10
39	The Regulation of the Male Hypothalamic-Pituitary-Gonadal Axis and Testosterone Production by Adipokines. , 2018, , .		10
40	Study of the functional organization of a novel adenylate cyclase signaling mechanism of insulin action. Biochemistry (Moscow), 2002, 67, 335-342.	1.5	9
41	Sensitivity of lysosomal enzymes to the plant alkaloid sanguinarine: comparison with other SH-specific agents. Cell Biology International, 2003, 27, 887-895.	3.0	9
42	Peptide autoinducers in bacteria. Microbiology, 2009, 78, 255-266.	1.2	9
43	Hormonal Signaling Systems of the Brain in Diabetes Mellitus. , 0, , .		9
44	Intranasal administration of insulin eliminates the deficit of long-term spatial memory in rats with neonatal diabetes mellitus. Doklady Biochemistry and Biophysics, 2011, 440, 216-218.	0.9	9
45	Effect of intranasal insulin and serotonin on functional activity of the adenylyl cyclase system in myocardium, ovary, and uterus of rats with prolonged neonatal model of diabetes mellitus. Journal of Evolutionary Biochemistry and Physiology, 2013, 49, 153-164.	0.6	9
46	Androgen Deficiency in Male Rats with Prolonged Neonatal Streptozotocin Diabetes. Bulletin of Experimental Biology and Medicine, 2013, 155, 339-342.	0.8	9
47	Activation of adenylyl cyclase by thienopyrimidine derivatives in rat testes and ovaries. Cell and Tissue Biology, 2014, 8, 400-406.	0.4	9
48	Mechanisms of action and therapeutic potential of proinsulin C-peptide. Journal of Evolutionary Biochemistry and Physiology, 2017, 53, 180-190.	0.6	9
49	Intranasal Administration of Proinsulin C-Peptide Enhances the Stimulating Effect of Insulin on Insulin System Activity in the Hypothalamus of Diabetic Rats. Bulletin of Experimental Biology and Medicine, 2019, 167, 351-355.	0.8	9
50	A Low Molecular Weight Agonist of the Luteinizing Hormone Receptor Stimulates Adenylyl Cyclase in the Testicular Membranes and Steroidogenesis in the Testes of Rats with Type 1 Diabetes. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2019, 13, 301-309.	0.6	9
51	New Thieno-[2,3-d]pyrimidine-Based Functional Antagonist for the Receptor of Thyroid Stimulating Hormone. Doklady Biochemistry and Biophysics, 2020, 491, 77-80.	0.9	9
52	Expression and localization of apelin and its receptor in the testes of diabetic mice and its possible role in steroidogenesis. Cytokine, 2021, 144, 155554.	3.2	9
53	Insulin and Î±-Tocopherol Enhance the Protective Effect of Each Other on Brain Cortical Neurons under Oxidative Stress Conditions and in Rat Two-Vessel Forebrain Ischemia/Reperfusion Injury. International Journal of Molecular Sciences, 2021, 22, 11768.	4.1	8
54	Relaxin Adenylyl Cyclase System of Pregnant Women with Diabetes: Functional Defects in Insulin and Relaxin Adenylyl Cyclase Signaling Systems in Myometrium of Pregnant Women with Type 1 Diabetes. Annals of the New York Academy of Sciences, 2005, 1041, 446-448.	3.8	7

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55	Decrease in the Basal and Luteinizing Hormone Receptor Agonistâ€“Stimulated Testosterone Production in Aging Male Rats. Advances in Gerontology, 2019, 9, 179-185.	0.4	7
56	Conservation of Steroidogenic Effect of the Low-Molecular-Weight Agonist of Luteinizing Hormone Receptor in the Course of Its Long-Term Administration to Male Rats. Doklady Biochemistry and Biophysics, 2019, 484, 78-81.	0.9	7
57	Title is missing!. Journal of Evolutionary Biochemistry and Physiology, 2003, 39, 266-280.	0.6	6
58	Changes in Hormone Sensitivity of the Adenylate Cyclase Signaling System in the Testicular Tissue of Rats with Neonatal Streptozotocin-Induced Diabetes. Bulletin of Experimental Biology and Medicine, 2009, 148, 394-398.	0.8	6
59	Functional state of adenylyl cyclase signaling system in reproductive tissues of rats with experimental type-1 diabetes. Cell and Tissue Biology, 2010, 4, 208-214.	0.4	6
60	A decrease in the sensitivity of adenylyl cyclase and heterotrimeric g proteins to chorionic gonadotrophin and peptide hormones action in the tissues of reproductive system of rats with experimental type 2 diabetes. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2010, 4, 258-263.	0.4	6
61	Receptor and tissue specificity of the effects of peptides corresponding to intracellular regions of the serpentine type receptors. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2012, 6, 16-25.	0.6	6
62	Biological activity of lipophilic derivatives of peptide 562â€“572 of rat luteinizing hormone receptor. Doklady Biochemistry and Biophysics, 2013, 452, 248-250.	0.9	6
63	Peptide 612â€“627 of thyrotropin receptor and its modified analogs as regulators of adenylyl cyclase in rat thyroid gland. Cell and Tissue Biology, 2014, 8, 488-498.	0.4	6
64	The brain leptin signaling system and its functional state in metabolic syndrome and type 2 diabetes mellitus. Journal of Evolutionary Biochemistry and Physiology, 2016, 52, 177-195.	0.6	6
65	Comparative Study of the Restoring Effect of Metformin, Gonadotropin, and Allosteric Agonist of Luteinizing Hormone Receptor on Spermatogenesis in Male Rats with Streptozotocin-Induced Type 2 Diabetes Mellitus. Bulletin of Experimental Biology and Medicine, 2022, 172, 435-440.	0.8	6
66	Palmitoylated Peptide 562-572 of Luteinizing Hormone Receptor Increases Testosterone Level in Male Rats. Bulletin of Experimental Biology and Medicine, 2014, 158, 209-212.	0.8	5
67	The effect of 2-month bromocriptine treatment on the activity of the adenylyl cyclase signaling system in the myocardium and testes of rats with type 2 diabetes. Cell and Tissue Biology, 2015, 9, 395-405.	0.4	5
68	Protein phosphotyrosine phosphatase 1B: Structure, function, role in the development of metabolic disorders and their correction by the enzyme inhibitors. Journal of Evolutionary Biochemistry and Physiology, 2017, 53, 259-270.	0.6	5
69	Metabolic parameters and functional state of hypothalamic signaling systems in AY/a mice with genetic predisposition to obesity and the effect of metformin. Doklady Biochemistry and Biophysics, 2017, 477, 377-381.	0.9	5
70	Effect of Low-Molecular-Weight Allosteric Agonists ofÂtheÂLuteinizing Hormone Receptor on Its Expression andÂDistribution in Rat Testes. Journal of Evolutionary Biochemistry and Physiology, 2021, 57, 208-220.	0.6	5
71	The Effect of Low-Molecular-Weight Allosteric Agonist of Luteinizing Hormone Receptor on Functional State of the Testes in Aging and Diabetic Rats. Bulletin of Experimental Biology and Medicine, 2021, 171, 81-86.	0.8	5
72	Molecular Mechanisms of Modified Sensitivity of the Adenylate Cyclase Signaling System to Biogenic Amines during Streptozotocin-Induced Diabetes. Bulletin of Experimental Biology and Medicine, 2005, 140, 304-308.	0.8	4

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73	Functional coupling of hormone receptors with G proteins in the adenylate cyclase system of the rat muscle tissues and brain under conditions of short-term hyperglycemia. Bulletin of Experimental Biology and Medicine, 2007, 144, 684-688.	0.8	4
74	Low-molecular regulators of polypeptide hormone receptors containing LGR-repeats. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2009, 3, 351-360.	0.4	4
75	Glucose and Cyclic Adenosine Monophosphate Stimulate Activities of Adenylate Cyclase and Guanylate Cyclase of Tetrahymena Pyriformis Infusoria. Bulletin of Experimental Biology and Medicine, 2012, 152, 427-430.	0.8	4
76	Peptidergic signaling brain systems in diabetes mellitus. Cell and Tissue Biology, 2013, 7, 212-220.	0.4	4
77	The functional activity of adenylyl cyclase signaling system in the brain, myocardium, and testes of rats with 8- and 18-month neonatal diabetes. Doklady Biochemistry and Biophysics, 2013, 448, 43-45.	0.9	4
78	The influence of bromocryptine treatment on activity of the adenylyl cyclase system in the brain of rats with type 2 diabetes mellitus induced by high-fat diet. Doklady Biochemistry and Biophysics, 2014, 459, 186-189.	0.9	4
79	The effect of four-week levothyroxine treatment on hormonal regulation of adenylyl cyclase in the brain and peripheral tissues of obese rats. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2015, 9, 236-245.	0.6	4
80	Effect of Metformin on Metabolic Parameters and Hypothalamic Signaling Systems in Rats with Obesity Induced by a High-Carbohydrate and High-Fat Diet. Advances in Gerontology, 2018, 8, 228-234.	0.4	4
81	Coadministration of Intranasally Delivered Insulin and Proinsulin C-Peptide to Rats with Types 1 and 2 Diabetes Mellitus Restores Their Metabolic Parameters. Advances in Gerontology, 2018, 8, 140-146.	0.4	4
82	Thienopyrimidine Derivatives Specifically Activate Testicular Steroidogenesis but Do Not Affect Thyroid Functions. Journal of Evolutionary Biochemistry and Physiology, 2019, 55, 30-39.	0.6	4
83	Regulatory Effects of Intranasal C-peptide and Insulin on Thyroid and Androgenic Status of Male Rats with Moderate Type 1 Diabetes Mellitus. Journal of Evolutionary Biochemistry and Physiology, 2019, 55, 493-496.	0.6	4
84	Comparative study of biological activity of insulins of lower vertebrates in the novel adenylyl cyclase test-system. Regulatory Peptides, 2003, 116, 81-86.	1.9	3
85	Serpentine type receptors and heterotrimeric G-proteins in yeasts: Structural-functional organization and molecular mechanisms of action. Journal of Evolutionary Biochemistry and Physiology, 2007, 43, 1-25.	0.6	3
86	Variations in Functional Activity of the Hormone-Sensitive Adenylate Cyclase System in Tissues of Gastropod Mollusks with Streptozotocin-Induced Diabetes. Bulletin of Experimental Biology and Medicine, 2008, 146, 424-428.	0.8	3
87	Polycationic peptides as nonhormonal regulators of chemosignal systems. Journal of Evolutionary Biochemistry and Physiology, 2009, 45, 431-446.	0.6	3
88	Receptor of the serpentine-type and heterotrimeric G protein as targets of action of polylysine dendrimers. Cell and Tissue Biology, 2009, 3, 14-22.	0.4	3
89	Peptides corresponding to intracellular regions of somatostatin receptors with agonist and antagonist activity. Doklady Biochemistry and Biophysics, 2011, 437, 68-71.	0.9	3
90	Alteration of hormonal sensitivity of adenylyl cyclase in the brain of rats with prolonged streptozotocin diabetes. Doklady Biochemistry and Biophysics, 2012, 446, 217-219.	0.9	3

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91	The metabolic changes in rats immunized with BSA conjugate of peptides derived from the N-terminal region of type 4 melanocortin receptor. Doklady Biochemistry and Biophysics, 2014, 458, 163-166.	0.9	3
92	Functional activity of thyroid gland in male rats with acute and mild streptozotocin diabetes. Journal of Evolutionary Biochemistry and Physiology, 2014, 50, 310-320.	0.6	3
93	Regulation of adenylyl cyclase activity in rat testes by acylated derivatives of peptide 562â€“572 of a luteinizing hormone receptor. Cell and Tissue Biology, 2014, 8, 152-159.	0.4	3
94	The effect of prolonged metformin treatment on the activity of the adenylyl cyclase system and NO-synthase in the brain and myocardium of obese rats. Cell and Tissue Biology, 2015, 9, 385-394.	0.4	3
95	The functional activity of the adenylate cyclase system in the brains of rats with metabolic syndrome induced by immunization with peptide 11â€“25 of the type 4 melanocortin receptor. Neurochemical Journal, 2015, 9, 29-38.	0.5	3
96	The effect of prolonged intranasal administration of serotonin on the activity of hypothalamic signaling systems in male rats with neonatal diabetes. Cell and Tissue Biology, 2016, 10, 314-323.	0.4	3
97	The Effect of Intranasal Administration of Proinsulin C-peptide and Its C-terminal Fragment on Metabolic Parameters in Rats with Streptozotocin Diabetes. Journal of Evolutionary Biochemistry and Physiology, 2018, 54, 242-245.	0.6	3
98	The Influence of Intranasally Administered Insulin and C-peptide on AMP-Activated Protein Kinase Activity, Mitochondrial Dynamics and Apoptosis Markers in the Hypothalamus of Rats with Streptozotocin-Induced Diabetes. Journal of Evolutionary Biochemistry and Physiology, 2020, 56, 207-217.	0.6	3
99	Allosteric Modulators of G Protein-Coupled Receptors. International Journal of Molecular Sciences, 2022, 23, 2934.	4.1	3
100	Role of Î²Î³-Dimers of GTP-Binding Proteins in Processes of Hormonal Signal Transduction. Journal of Evolutionary Biochemistry and Physiology, 2002, 38, 650-672.	0.6	2
101	Regulation of Adenylyl Cyclase Signaling System in Cell Cultures of Infusoria Dileptus anser and Tetrahymena pyriformis by Peptides of Insulin Superfamily. Journal of Evolutionary Biochemistry and Physiology, 2004, 40, 364-373.	0.6	2
102	Structure-functional organization of adenylyl cyclases of unicellular eukaryotes and molecular mechanisms of their regulation. Cell and Tissue Biology, 2007, 1, 97-114.	0.4	2
103	Signal transduction systems in prokaryotes. Journal of Evolutionary Biochemistry and Physiology, 2008, 44, 129-150.	0.6	2
104	Effects of polycationic peptides of different natures on the functional state of the serotonin-regulated adenylate cyclase system in the rat brain. Neurochemical Journal, 2009, 3, 272-281.	0.5	2
105	Peptides derived from the third cytoplasmic loop of type 6 serotonin receptor as regulators of serotonin-sensitive adenylyl cyclase signaling system. Doklady Biochemistry and Biophysics, 2010, 431, 94-97.	0.9	2
106	Functional characteristics of calcium-sensitive adenylyl cyclase of the infusorian Tetrahymena pyriformis. Cell and Tissue Biology, 2010, 4, 587-593.	0.4	2
107	Activity of receptor guanylyl cyclases in rats with neonatal streptozotocin diabetes and effect of intranasal administration of insulin and serotonin. Cell and Tissue Biology, 2011, 5, 453-462.	0.4	2
108	Functional activity of adenylyl and guanylyl cyclases in human spermatozoa with different motility. Cell and Tissue Biology, 2013, 7, 280-288.	0.4	2

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109	The influence of prolonged streptozotocin diabetes on the thyroid gland function in rats. Doklady Biochemistry and Biophysics, 2013, 451, 217-220.	0.9	2
110	New conceptual approach for search for molecular causes of diabetus mellitus, based on study of functioning of hormonal signaling systems. Journal of Evolutionary Biochemistry and Physiology, 2013, 49, 457-468.	0.6	2
111	Attenuation of inhibitory influence of hormones on adenylyl cyclase systems in the myocardium and brain of obese and type 2 diabetic rats as affected by the intranasal insulin treatment. Journal of Evolutionary Biochemistry and Physiology, 2014, 50, 399-408.	0.6	2
112	The role of disturbances in hormonal signaling systems in etiology and pathogenesis of diabetes mellitus. Journal of Evolutionary Biochemistry and Physiology, 2014, 50, 552-556.	0.6	2
113	The effect of long-term diabetes mellitus induced by treatment with streptozotocin in 6-week-old rats on functional activity of the adenylyl cyclase system. Cell and Tissue Biology, 2014, 8, 68-79.	0.4	2
114	Effect of long-term L-thyroxine treatment on the activity of NO-synthases in tissues of rats with obesity induced by high-fat diet. Journal of Evolutionary Biochemistry and Physiology, 2015, 51, 485-494.	0.6	2
115	Alterations in adenylyl cyclase sensitivity to hormones in the brain, myocardium, and testes of rats immunized with BSA-conjugated peptide 269â€"280 of type 3 melanocortin receptor. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2015, 9, 124-134.	0.6	2
116	Beta-adrenergic regulation of adenylyl cyclase signaling system in the myocardium and brain of rats with obesity and type 2 diabetes mellitus as affected by long-term intranasal insulin administration. Journal of Evolutionary Biochemistry and Physiology, 2015, 51, 198-209.	0.6	2
117	Antibodies to extracellular regions of G protein-coupled receptors and receptor tyrosine kinases as one of the causes of autoimmune diseases. Journal of Evolutionary Biochemistry and Physiology, 2017, 53, 93-110.	0.6	2
118	The Effect of Diet-Induced and Melanocortin Obesity on Expression of Tryptophan Hydroxylase 2 in the Dorsal Raphe Nucleus and Ventral Tegmental Area in Mice. Journal of Evolutionary Biochemistry and Physiology, 2019, 55, 293-301.	0.6	2
119	Novel Thienopyrimidine Derivatives with an Activity of Full and Inverse Agonists of the Luteinizing Hormone Receptor. Journal of Evolutionary Biochemistry and Physiology, 2019, 55, 414-418.	0.6	2
120	Low-Molecular-Weight Ligands of Luteinizing Hormone Receptor with the Activity of Antagonists. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2020, 14, 223-231.	0.6	2
121	Regulation of the Adenylyl Cyclase System of the Infusorian Tetrahymena pyriformis by Hormonal and Non-Hormonal Agents and Its Dependence on the Basal Activity Level of Adenylyl Cyclase. Journal of Evolutionary Biochemistry and Physiology, 2003, 39, 416-424.	0.6	1
122	Structural-functional organization of signaling systems coupled to G-proteins in ameba Dictyostelium discoideum. Journal of Evolutionary Biochemistry and Physiology, 2006, 42, 536-558.	0.6	1
123	Regulatory calcium effect on adenylyl cyclase functional activity in the infusorian Dileptis anser. Journal of Evolutionary Biochemistry and Physiology, 2007, 43, 145-153.	0.6	1
124	Streptozotocin model of diabetes mellitus in the mollusc Anodonta cygnea: functional state of the adenylyl cyclase mechanisms of action of insulin superfamily peptides and their effect on carbohydrate metabolism enzymes. Journal of Evolutionary Biochemistry and Physiology, 2007, 43, 548-556.	0.6	1
125	Disturbance of transduction of adenylyl cyclase-inhibiting hormonal signaling in the myocardium and brain of rats with experimental type 2 diabetes. Cell and Tissue Biology, 2007, 1, 343-351.	0.4	1
126	Changed sensitivity of adenylate cyclase signaling system to biogenic amines and peptide hormones in tissues of starving rats. Bulletin of Experimental Biology and Medicine, 2007, 144, 12-16.	0.8	1

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127	Study of structural-functional arrangement of the adenylyl cyclase signaling mechanism of action of insulin-like growth factor 1 revealed in muscle tissue of representatives of vertebrates and invertebrates. Journal of Evolutionary Biochemistry and Physiology, 2008, 44, 542-551.	0.6	1
128	Structural-functional characteristics of the adenylyl cyclase signaling system regulated by biogenic amines and peptide hormones in muscles of the earthworm Lumbricus terrestris. Journal of Evolutionary Biochemistry and Physiology, 2008, 44, 552-561.	0.6	1
129	Chemocommunication between bacteria and the higher vertebrate animals. Journal of Evolutionary Biochemistry and Physiology, 2009, 45, 549-561.	0.6	1
130	Structural functional characteristic of neuronal serotonin receptors and molecular mechanisms of their coupling with G-proteins. Neurochemical Journal, 2009, 3, 1-13.	0.5	1
131	Regulation by cyclic adenosine monophosphate of functional activity of the adenylyl cyclase system in the infusorian Dileptus anser. Journal of Evolutionary Biochemistry and Physiology, 2010, 46, 145-152.	0.6	1
132	Effects of natural amino acids and sugars on activity of infusiorian cyclases. Journal of Evolutionary Biochemistry and Physiology, 2011, 47, 151-159.	0.6	1
133	Development of non-hormonal regulators of the adenylyl cyclase signaling system based on the peptides, derivatives of the third intracellular loop of somatostatin receptors. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2011, 5, 246-252.	0.4	1
134	Somatostatin receptors and signaling cascades coupled to them. Journal of Evolutionary Biochemistry and Physiology, 2012, 48, 385-400.	0.6	1
135	Initial Stages of the Insulin Signaling System in the Brain of Rats with Experimental Diabetes Mellitus. Bulletin of Experimental Biology and Medicine, 2012, 153, 25-28.	0.8	1
136	The secondary structure of peptides derived from the third intracellular loop of the serpentine-type receptors and its interrelation with their biological activity. Cell and Tissue Biology, 2012, 6, 197-210.	0.4	1
137	Regulation of adenylyl cyclase signaling system by insulin, biogenic amines and glucagon at their separate and combined action in muscle membranes of mollusc Anodonta cygnea. Journal of Evolutionary Biochemistry and Physiology, 2013, 49, 145-152.	0.6	1
138	Advances in the study of structure and function of G protein-coupled receptors (about awarding the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Biochemistry and Physiology, 2013, 49, 469-480.	0.6	1
139	Peptides Derived from the Extracellular Loops of Receptors: Structure, Mechanism of Action, Use in Physiology and Medicine. Neuroscience and Behavioral Physiology, 2013, 43, 111-121.	0.4	1
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