Shozo Tomonaga

List of Publications by Year
in descending order

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99 papers	3,056 citations	172386 29 h-index	175177 52 g-index
102 all docs	102 docs citations	102 times ranked	3174 citing authors

#	Article	IF	Citations
1	Abnormal Behavior in a Chromosome- Engineered Mouse Model for Human 15q11-13 Duplication Seen in Autism. Cell, 2009, 137, 1235-1246.	13.5	432
2	Inhibitory effect of ghrelin on food intake is mediated by the corticotropin-releasing factor system in neonatal chicks. Regulatory Peptides, 2005, 125, 201-208.	1.9	266
3	Commensal microbiota modulate murine behaviors in a strictly contaminationâ€free environment confirmed by cultureâ€based methods. Neurogastroenterology and Motility, 2013, 25, 521.	1.6	222
4	Brain-specific Phgdh Deletion Reveals a Pivotal Role for l-Serine Biosynthesis in Controlling the Level of d-Serine, an N-methyl-d-aspartate Receptor Co-agonist, in Adult Brain. Journal of Biological Chemistry, 2010, 285, 41380-41390.	1.6	110
5	Decreased Exploratory Activity in a Mouse Model of 15q Duplication Syndrome; Implications for Disturbance of Serotonin Signaling. PLoS ONE, 2010, 5, e15126.	1.1	98
6	(â^')-Epigallocatechin gallate attenuates acute stress responses through GABAergic system in the brain. European Journal of Pharmacology, 2006, 531, 171-175.	1.7	82
7	Intracerebroventricular injection of vasoactive intestinal peptide and pituitary adenylate cyclase-activating polypeptide inhibits feeding in chicks. Neuroscience Letters, 2003, 339, 203-206.	1.0	74
8	Central administration of cocaine- and amphetamine-regulated transcript inhibits food intake in chicks. Neuroscience Letters, 2003, 337, 131-134.	1.0	65
9	Intracerebroventricular injection of l-arginine induces sedative and hypnotic effects under an acute stress in neonatal chicks. Amino Acids, 2008, 35, 139-146.	1.2	65
10	Comparison of brain arginine-vasotocin and corticotrophin-releasing factor for physiological responses in chicks. Neuroscience Letters, 2004, 360, 165-169.	1.0	61
11	Oxidative damage and brain concentrations of free amino acid in chicks exposed to high ambient temperature. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 169, 70-76.	0.8	60
12	Effect of central administration of carnosine and its constituents on behaviors in chicks. Brain Research Bulletin, 2004, 63, 75-82.	1.4	59
13	Carnosine-induced antidepressant-like activity in rats. Pharmacology Biochemistry and Behavior, 2008, 89, 627-632.	1.3	58
14	Intracerebroventricular injection of l-serine analogs and derivatives induces sedative and hypnotic effects under an acute stressful condition in neonatal chicks. Behavioural Brain Research, 2006, 170, 71-77.	1.2	53
15	l-Proline is a sedative regulator of acute stress in the brain of neonatal chicks. Amino Acids, 2009, 37, 377-382.	1.2	53
16	Effect of central administration of prolactin-releasing peptide on feeding in chicks. Physiology and Behavior, 2004, 80, 713-719.	1.0	52
17	Anorexigenic effects of pituitary adenylate cyclase-activating polypeptide and vasoactive intestinal peptide in the chick brain are mediated by corticotrophin-releasing factor. Regulatory Peptides, 2004, 120, 99-105.	1.9	52
18	Central administration of phosphatidylserine attenuates isolation stress-induced behavior in chicks. Neurochemistry International, 2005, 47, 183-189.	1.9	49

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19	Physiological and Behavioral Responses of Young Chicks to High Ambient Temperature. Journal of Poultry Science, 2012, 49, 212-218.	0.7	47
20	Hypothalamic gonadotropin-inhibitory hormone precursor mRNA is increased during depressed food intake in heat-exposed chicks. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 162, 227-233.	0.8	47
21	Highâ€sensitivity detection of shortâ€chain fatty acids in porcine ileal, cecal, portal and abdominal blood by gas chromatographyâ€mass spectrometry. Animal Science Journal, 2014, 85, 494-498.	0.6	47
22	Central l-arginine reduced stress responses are mediated by l-ornithine in neonatal chicks. Amino Acids, 2008, 35, 107-113.	1.2	46
23	Hypothesis with abnormal amino acid metabolism in depression and stress vulnerability in Wistar Kyoto rats. Amino Acids, 2012, 43, 2101-2111.	1.2	42
24	Intracerebroventricular administration of GABA-A and GABA-B receptor antagonists attenuate feeding and sleeping-like behavior induced byL-pipecolic acid in neonatal chicks. Journal of Neuroscience Research, 2003, 73, 270-275.	1.3	38
25	Nitric oxide involves in carnosine-induced hyperactivity in chicks. European Journal of Pharmacology, 2005, 524, 84-88.	1.7	35
26	Production, Absorption, and Blood Flow Dynamics of Short-Chain Fatty Acids Produced by Fermentation in Piglet Hindgut during the Sucklingâ€“Weaning Period. Nutrients, 2018, 10, 1220.	1.7	35
27	Neuropeptidergic Regulation of Food Intake in the Neonatal Chick: A Review. Journal of Poultry Science, 2007, 44, 349-356.	0.7	33
28	Pituitary adenylate cyclase activating polypeptide and vasoactive intestinal peptide inhibit feeding in the chick brain by different mechanisms. Neuroscience Letters, 2003, 348, 25-28.	1.0	30
29	Forced swimming and imipramine modify plasma and brain amino acid concentrations in mice. European Journal of Pharmacology, 2009, 602, 73-77.	1.7	30
30	Oral administration of chicken breast extract increases brain carnosine and anserine concentrations in rats. Nutritional Neuroscience, 2007, 10, 181-186.	1.5	29
31	Effects of high ambient temperature on plasma metabolomic profiles in chicks. Animal Science Journal, 2018, 89, 448-455.	0.6	29
32	Orally administered<scp>l</scp>-ornithine elevates brain<scp>l</scp>-ornithine levels and has an anxiolytic-like effect in mice. Nutritional Neuroscience, 2011, 14, 243-248.	1.5	28
33	Oral administration of Î²â€alanine modifies carnosine concentrations in the muscles and brains of chickens. Animal Science Journal, 2005, 76, 249-254.	0.6	26
34	Hippocampal metabolism of amino acids by L-amino acid oxidase is involved in fear learning and memory. Scientific Reports, 2018, 8, 11073.	1.6	25
35	Dietary beta-alanine enhances brain, but not muscle, carnosine and anserine concentrations in broilers. Animal Science Journal, 2006, 77, 79-86.	0.6	24
36	Intracerebroventricular injection of glutathione and its derivative induces sedative and hypnotic effects under an acute stress in neonatal chicks. Neuroscience Letters, 2007, 418, 87-91.	1.0	24

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37	Differences in catecholamine metabolism and behaviour in neonatal broiler and layer chicks. British Poultry Science, 2004, 45, 158-162.	0.8	23
38	l-Ornithine attenuates corticotropin-releasing factor-induced stress responses acting at GABAA receptors in neonatal chicks. Neuroscience, 2011, 172, 226-231.	1.1	23
39	Central administration of l- and d-aspartate attenuates stress behaviors by social isolation and CRF in neonatal chicks. Amino Acids, 2012, 43, 1969-1976.	1.2	23
40	Relationships between the sedative and hypnotic effects of intracerebroventricular administration of L-serine and its metabolites, pyruvate and the derivative amino acids contents in the neonatal chicks under acute stressful conditions. Amino Acids, 2008, 34, 55-60.	1.2	22
41	Î²-Alanine Enhances Brain and Muscle Carnosine Levels in Broiler Chicks. Journal of Poultry Science, 2012, 49, 308-312.	0.7	22
42	Metabolomics Approach Reveals the Effects of Breed and Feed on the Composition of Chicken Eggs. Metabolites, 2019, 9, 224.	1.3	21
43	Metabolic changes in adipose tissues in response to Î²₃â€adrenergic receptor activation in mice. Journal of Cellular Biochemistry, 2019, 120, 821-835.	1.2	21
44	Magnesium Deficiency Induces the Emergence of Mast Cells in the Liver of Rats. Journal of Nutritional Science and Vitaminology, 2013, 59, 560-563.	0.2	20
45	Central l-proline attenuates stress-induced dopamine and serotonin metabolism in the chick forebrain. Neuroscience Letters, 2009, 460, 78-81.	1.0	17
46	Correlation between skeletal muscle fiber type and free amino acid levels in Japanese Black steers. Animal Science Journal, 2019, 90, 604-609.	0.6	17
47	Central administration of dipeptides, beta-alanyl-BCAAs, induces hyperactivity in chicks. BMC Neuroscience, 2007, 8, 37.	0.8	16
48	Orally administered l-ornithine reduces restraint stress-induced activation of the hypothalamic-pituitary-adrenal axis in mice. Neuroscience Letters, 2012, 506, 287-291.	1.0	16
49	Regulatory responses of hepatocytes, macrophages and vascular endothelial cells to magnesium deficiency. Journal of Nutritional Biochemistry, 2018, 56, 35-47.	1.9	16
50	Changes in free amino acids in the brain during embryonic development in layer and broiler chickens. Amino Acids, 2009, 36, 303-308.	1.2	14
51	Effect of longâ€distance transportation on serum metabolic profiles of steer calves. Animal Science Journal, 2017, 88, 1970-1978.	0.6	14
52	Expression levels of brown/beige adipocyte-related genes in fat depots of vitamin A-restricted fattening cattle1. Journal of Animal Science, 2018, 96, 3884-3896.	0.2	13
53	Intracerebroventricular injection of kynurenic acid attenuates corticotrophin-releasing hormone-augmented stress responses in neonatal chicks. Neuroscience, 2012, 220, 142-148.	1.1	12
54	Transcriptional Activation of Chac1 and Other Atf4-Target Genes Induced by Extracellular l-Serine Depletion is negated with Glycine Consumption in Hepa1-6 Hepatocarcinoma Cells. Nutrients, 2020, 12, 3018.	1.7	12

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55	Beta 3-adrenergic receptor is involved in feeding regulation in chicks. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 135, 403-409.	0.8	11
56	Fluctuations in metabolite content in the liver of magnesium-deficient rats. British Journal of Nutrition, 2016, 116, 1694-1699.	1.2	11
57	Effects of Diet Quality and Psychosocial Stress on the Metabolic Profiles of Mice. Journal of Proteome Research, 2017, 16, 1857-1867.	1.8	11
58	Elevated quinolinic acid levels in cerebrospinal fluid in subacute sclerosing panencephalitis. Journal of Neuroimmunology, 2020, 339, 577088.	1.1	10
59	Central pipecolic acid increases food intake under ad libitum feeding conditions in the neonatal chick. Neuroscience Letters, 2003, 347, 93-96.	1.0	9
60	Reverse structure of carnosine-induced sedative and hypnotic effects in the chick under acute stress. Life Sciences, 2008, 82, 1065-1069.	2.0	9
61	Oral Administration of D-aspartate, but not of L-aspartate, Reduces Food Intake in Chicks. Journal of Poultry Science, 2013, 50, 164-171.	0.7	9
62	Modulation of the cellular content of metabolites in adipocytes by insulin. Molecular and Cellular Endocrinology, 2016, 424, 71-80.	1.6	9
63	Analysis of infant microbiota composition and the relationship with breast milk components in the Asian elephant (Elephas maximus) at the zoo. Journal of Veterinary Medical Science, 2020, 82, 983-989.	0.3	9
64	Orally administered whole egg demonstrates antidepressant-like effects in the forced swimming test on rats. Acta Neuropsychiatrica, 2014, 26, 209-217.	1.0	8
65	Effects of Vitamin A Status on Expression of Ucp1 and Brown/Beige Adipocyte-Related Genes in White Adipose Tissues of Beef Cattle. Journal of Veterinary Medical Science, 2014, 76, 1261-1265.	0.3	8
66	Norepinephrine does not alter NPY and POMC mRNA expression in neonatal chicks. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 156, 143-146.	0.8	7
67	The impact of chronic imipramine treatment on amino acid concentrations in the hippocampus of mice. Nutritional Neuroscience, 2012, 15, 26-33.	1.5	7
68	Changes in brain monoamine metabolism of neonatal chicks under two different acute stress conditions. British Poultry Science, 2012, 53, 145-149.	0.8	7
69	Oral Administration of L-Serine Increases L- and D-Serine Levels in the Plasma and Brain of Fasted Rats. Letters in Drug Design and Discovery, 2012, 9, 663-667.	0.4	7
70	Central Administration of L-Ser-L-His and L-Ile-L-His Induced Sedative Effects Under an Acute Stressful Condition in Chicks. Letters in Drug Design and Discovery, 2008, 5, 65-68.	0.4	6
71	Beef extract supplementation promotes myoblast proliferation and myotube growth in C2C12 cells. European Journal of Nutrition, 2020, 59, 3735-3743.	1.8	6
72	The use of behavioral tests of fearfulness in chicks to distinguish between the Japanese native chicken breeds, Tosaâ€Kukin and Yakido. Animal Science Journal, 2021, 92, e13507.	0.6	6

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73	Increase in telencephalic dopamine and cerebellar norepinephrine contents by hydrostatic pressure in goldfish: the possible involvement in hydrostatic pressure-related locomotion. Fish Physiology and Biochemistry, 2015, 41, 1105-1115.	0.9	5
74	Dietary regulation of Ucp2 and Ucp3 expressions in white adipose tissues of beef cattle. Canadian Journal of Animal Science, 2016, 96, 457-460.	0.7	5
75	Changes in Catecholamines and Dopaminergic Metabolites in Pigeon Brain During Development from the Late Embryonic Stage Toward Hatch. Zoological Science, 2003, 20, 551-555.	0.3	4
76	Expression of uncoupling protein 1 in bovine muscle cells1. Journal of Animal Science, 2016, 94, 5097-5104.	0.2	4
77	Murine Depression Model and its Potential Applications for Discovering Foods and Farm Products with Antidepressant-Like Effects. Frontiers in Neuroscience, 2016, 10, 72.	1.4	4
78	Nutritional Characteristics and Functions of D-Amino Acids in the Chicken. Journal of Poultry Science, 2020, 57, 18-27.	0.7	4
79	Effects of Cyclic High Ambient Temperature and Dietary Supplementation of Orotic Acid, a Pyrimidine Precursor, on Plasma and Muscle Metabolites in Broiler Chickens. Metabolites, 2020, 10, 189.	1.3	4
80	Metabolism of Imidazole Dipeptides, Taurine, Branched-Chain Amino Acids, and Polyamines of the Breast Muscle Are Affected by Post-Hatch Development in Chickens. Metabolites, 2022, 12, 86.	1.3	4
81	Galloyl Group is not Necessary for a Sedative Effect of Catechin Through GABAergic System. Letters in Drug Design and Discovery, 2007, 4, 163-167.	0.4	3
82	Downregulation of Pgcâ€1Î± expression by tea leaves and their byâ€products. Cell Biochemistry and Function, 2014, 32, 236-240.	1.4	3
83	Chronic retinoic acid treatment induces differentiation and changes in the metabolite levels of brown (pre)adipocytes. Cell Biochemistry and Function, 2019, 37, 377-384.	1.4	3
84	Effects of Dietary Defatted Meat Species on Metabolomic Profiles of Murine Liver, Gastrocnemius Muscle, and Cecal Content. Metabolites, 2020, 10, 503.	1.3	3
85	Impacts of acute imipramine treatment on plasma and brain amino acid metabolism in mice given graded levels of dietary chicken protein. Animal Science Journal, 2012, 83, 777-787.	0.6	2
86	Central Administration of Glucose Modifies Brain Amino Acid Metabolism in Neonatal Chicks. Journal of Poultry Science, 2015, 52, 28-33.	0.7	2
87	Effects of delayed feeding on lipid peroxidation, drip losses, color, and taste of chicken breast meat. Nihon Chikusan Gakkaiho, 2018, 89, 191-198.	0.0	2
88	Stress responses in neonatal meat and layer Nagoya chicks. Animal Science Journal, 2007, 78, 541-545.	0.6	1
89	Oral administration of Excitin-1 (Î²-alanyl-L-leucine) alters behavior and brain monoamine and amino acid concentrations in rats. Nutritional Neuroscience, 2009, 12, 175-182.	1.5	1
90	Regulatory expression of components in the BMP pathway in white adipose tissues of cattle. Livestock Science, 2015, 174, 144-149.	0.6	1

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91	Feeding the Outer Bran Fraction of Rice Alters Hepatic Carbohydrate Metabolism in Rats. Nutrients, 2020, 12, 430.	1.7	1
92	Changes in Carnosine and its Related Constituents during Embryonic Development in the Breast Muscle of Layer and Broiler Chickens. Journal of Poultry Science, 2009, 46, 229-233.	0.7	1
93	Stimulation of uncoupling protein 1 expression by Î²-alanine in brown adipocytes. Archives of Biochemistry and Biophysics, 2022, 727, 109341.	1.4	1
94	Effect of Centrally Administered Sphingomyelin on Food Intake and HPA Axis in Chicks. Journal of Applied Animal Research, 2006, 29, 91-96.	0.4	0
95	Effects ofin uteroTPTCL Exposure on the Learned Behaviors of Mice after Birth. Journal of Applied Animal Research, 2007, 31, 13-20.	0.4	0
96	Reduced glutathione decreases energy expenditure in chicks exposed to separation stress. Animal Science Journal, 2009, 80, 291-295.	0.6	0
97	Conditional Phgdh deletion results in reduced D,L-serine levels and alters monoamine metabolism in the postnatal brain. Neuroscience Research, 2010, 68, e119.	1.0	0
98	Oral Administration of L-serine Modifies Amino Acid Metabolism in the Brain of Rats. Journal of Animal Research and Nutrition, 2016, 01, .	0.4	0
99	Alaska Pollack Protein Decreases Brain 3-methoxy-4-hydroxyphenylglycol Levels in Fasting Chicks. Journal of Poultry Science, 2012, 49, 171-177.	0.7	0