# Zhen Yan

List of Publications by Year
in descending order

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|---|---|---|---|
| 114 papers | 15,407 citations | 34105 52 h-index | 32842 100 g-index |
| 116 all docs | 116 docs citations | 116 times ranked | 27077 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | AMPK-mediated potentiation of GABAergic signalling drives hypoglycaemia-provoked spike-wave seizures. Brain, 2022, 145, 2332-2346. | 7.6 | 7 |
| 2 | AMPK and the Adaptation to Exercise. Annual Review of Physiology, 2022, 84, 209-227. | 13.1 | 48 |
| 3 | Molecular Mechanisms of Exercise and Healthspan. Cells, 2022, 11, 872. | 4.1 | 14 |
| 4 | Exercise during pregnancy mitigates negative effects of parental obesity on metabolic function in adult mouse offspring. Journal of Applied Physiology, 2021, 130, 605-616. | 2.5 | 11 |
| 5 | A venous-specific purinergic signaling cascade initiated by Pannexin 1 regulates TNFÎ±-induced increases in endothelial permeability. Science Signaling, 2021, 14, . | 3.6 | 30 |
| 6 | Ulk1, Not Ulk2, Is Required for Exercise Training-Induced Improvement of Insulin Response in Skeletal Muscle. Frontiers in Physiology, 2021, 12, 732308. | 2.8 | 2 |
| 7 | Mitochondria-localized AMPK responds to local energetics and contributes to exercise and energetic stress-induced mitophagy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 75 |
| 8 | Extracellular superoxide dismutase, a molecular transducer of health benefits of exercise. Redox Biology, 2020, 32, 101508. | 9.0 | 87 |
| 9 | Long-term voluntary running prevents the onset of symptomatic Friedreichâ€™s ataxia in mice. Scientific Reports, 2020, 10, 6095. | 3.3 | 10 |
| 10 | A novel voluntary weightlifting model in mice promotes muscle adaptation and insulin sensitivity with simultaneous enhancement of autophagy and mTOR pathway. FASEB Journal, 2020, 34, 7330-7344. | 0.5 | 42 |
| 11 | Voluntary Exercise Suppresses Choroidal Neovascularization in Mice. , 2020, 61, 52. | | 1 |
| 12 | Targeting healthspan to optimally combat non-communicable disease in an aging world. Sports Medicine and Health Science, 2019, 1, 59-60. | 2.0 | 1 |
| 13 | Precision remodeling: how exercise improves mitochondrial quality in myofibers. Current Opinion in Physiology, 2019, 10, 96-101. | 1.8 | 6 |
| 14 | Exercise-Induced Mitophagy in Skeletal Muscle and Heart. Exercise and Sport Sciences Reviews, 2019, 47, 151-156. | 3.0 | 47 |
| 15 | Exercise-induced mitophagy in skeletal muscle occurs in the absence of stabilization of Pink1 on mitochondria. Cell Cycle, 2019, 18, 1-6. | 2.6 | 42 |
| 16 | Atg2, Atg9 and Atg18 in mitochondrial integrity, cardiac function and healthspan in Drosophila. Journal of Molecular and Cellular Cardiology, 2019, 127, 116-124. | 1.9 | 25 |
| 17 | The myocardial infarct-exacerbating effect of cell-free DNA is mediated by the high-mobility group box 1â€“receptor for advanced glycation end productsâ€“Toll-like receptor 9 pathway. Journal of Thoracic and Cardiovascular Surgery, 2019, 157, 2256-2269.e3. | 0.8 | 37 |
| 18 | Voluntary running protects against neuromuscular dysfunction following hindlimb ischemia-reperfusion in mice. Journal of Applied Physiology, 2019, 126, 193-201. | 2.5 | 11 |

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|---|---|---|---|
| 19 | Conditional MitoTimer reporter mice for assessment of mitochondrial structure, oxidative stress, and mitophagy. Mitochondrion, 2019, 44, 20-26. | 3.4 | 43 |
| 20 | Mitochondrial protein S-nitrosation protects against ischemia reperfusion-induced denervation at neuromuscular junction in skeletal muscle. Free Radical Biology and Medicine, 2018, 117, 180-190. | 2.9 | 21 |
| 21 | Dynamin-Related Protein 1 Deficiency Promotes Recovery from AKI. Journal of the American Society of Nephrology: JASN, 2018, 29, 194-206. | 6.1 | 110 |
| 22 | Lysophosphatidic acid counteracts glucagon-induced hepatocyte glucose production via STAT3. Scientific Reports, 2017, 7, 127. | 3.3 | 9 |
| 23 | Caveolin-1 Deletion Prevents Hypertensive Vascular Remodeling Induced by Angiotensin II. Hypertension, 2017, 69, 79-86. | 2.7 | 45 |
| 24 | Ulk1-mediated autophagy plays an essential role in mitochondrial remodeling and functional regeneration of skeletal muscle. American Journal of Physiology - Cell Physiology, 2017, 312, C724-C732. | 4.6 | 60 |
| 25 | Muscle-derived extracellular superoxide dismutase inhibits endothelial activation and protects against multiple organ dysfunction syndrome in mice. Free Radical Biology and Medicine, 2017, 113, 212-223. | 2.9 | 20 |
| 26 | Possible roles for ATP release from RBCs exclude the cAMP-mediated Panx1 pathway. American Journal of Physiology - Cell Physiology, 2017, 313, C593-C603. | 4.6 | 30 |
| 27 | Ampk phosphorylation of Ulk1 is required for targeting of mitochondria to lysosomes in exercise-induced mitophagy. Nature Communications, 2017, 8, 548. | 12.8 | 333 |
| 28 | Exercise leads to unfavourable cardiac remodelling and enhanced metabolic homeostasis in obese mice with cardiac and skeletal muscle autophagy deficiency. Scientific Reports, 2017, 7, 7894. | 3.3 | 32 |
| 29 | Mitophagy in maintaining skeletal muscle mitochondrial proteostasis and metabolic health with ageing. Journal of Physiology, 2017, 595, 6391-6399. | 2.9 | 48 |
| 30 | Reactive Oxygen Species/Nitric Oxide Mediated Inter-Organ Communication in Skeletal Muscle Wasting Diseases. Antioxidants and Redox Signaling, 2017, 26, 700-717. | 5.4 | 38 |
| 31 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |
| 32 | Molecular mechanisms for mitochondrial adaptation to exercise training in skeletal muscle. FASEB Journal, 2016, 30, 13-22. | 0.5 | 179 |
| 33 | The Mitochondrial Permeability Transition Pore Regulator Cyclophilin D Exhibits Tissue-Specific Control of Metabolic Homeostasis. PLoS ONE, 2016, 11, e0167910. | 2.5 | 34 |
| 34 | Involvement of mTOR in Type 2 CRF Receptor Inhibition of Insulin Signaling in Muscle Cells. Molecular Endocrinology, 2015, 29, 831-841. | 3.7 | 6 |
| 35 | Enhanced Skeletal Muscle Expression of Extracellular Superoxide Dismutase Mitigates Streptozotocin-Induced Diabetic Cardiomyopathy by Reducing Oxidative Stress and Aberrant Cell Signaling. Circulation: Heart Failure, 2015, 8, 188-197. | 3.9 | 32 |
| 36 | HDAC4 Regulates Muscle Fiber Type-Specific Gene Expression Programs. Molecules and Cells, 2015, 38, 343-348. | 2.6 | 38 |

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|---|---|---|---|
| 37 | Endurance Exercise and the Regulation of Skeletal Muscle Metabolism. Progress in Molecular Biology and Translational Science, 2015, 135, 129-151. | 1.7 | 83 |
| 38 | The Mitochondrial Permeability Transition Pore Regulator Cyclophilin D Exhibits Tissueâ€Specific Control of Metabolic Homeostasis. FASEB Journal, 2015, 29, 1036.14. | 0.5 | 0 |
| 39 | Ulk1 is Required for Lysosome Targeting to Damaged Mitochondria Following Acute Exercise. FASEB Journal, 2015, 29, 821.9. | 0.5 | 0 |
| 40 | Response to Comment on Laker et al. Exercise Prevents Maternal High-Fat Dietâ€"Induced Hypermethylation of thePgc-1Î±Gene and Age-Dependent Metabolic Dysfunction in the Offspring. Diabetes 2014;63:1605â"1611. Diabetes, 2014, 63, e6-e7. | 0.6 | 5 |
| 41 | Extracellular Superoxide Dismutase Ameliorates Skeletal Muscle Abnormalities, Cachexia, and Exercise Intolerance in Mice with Congestive Heart Failure. Circulation: Heart Failure, 2014, 7, 519-530. | 3.9 | 54 |
| 42 | Regulatory circuitry of TWEAKâ€Fn14 system and PGCâ€1Î± in skeletal muscle atrophy program. FASEB Journal, 2014, 28, 1398-1411. | 0.5 | 59 |
| 43 | A Novel MitoTimer Reporter Gene for Mitochondrial Content, Structure, Stress, and Damage in Vivo. Journal of Biological Chemistry, 2014, 289, 12005-12015. | 3.4 | 196 |
| 44 | Exercise Prevents Maternal High-Fat Dietâ€"Induced Hypermethylation of the Pgc-1Î± Gene and Age-Dependent Metabolic Dysfunction in the Offspring. Diabetes, 2014, 63, 1605-1611. | 0.6 | 184 |
| 45 | Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. Molecular Metabolism, 2014, 3, 114-123. | 6.5 | 168 |
| 46 | Muscle-specific activation of Ca2+/calmodulin-dependent protein kinase IV increases whole-body insulin action in mice. Diabetologia, 2014, 57, 1232-1241. | 6.3 | 12 |
| 47 | Autophagy is required for exercise trainingâ€induced skeletal muscle adaptation and improvement of physical performance. FASEB Journal, 2013, 27, 4184-4193. | 0.5 | 344 |
| 48 | Structural modulation of gut microbiota in life-long calorie-restricted mice. Nature Communications, 2013, 4, 2163. | 12.8 | 404 |
| 49 | Epigenetic origins of metabolic disease: The impact of the maternal condition to the offspring epigenome and later health consequences. Food Science and Human Wellness, 2013, 2, 1-11. | 4.9 | 61 |
| 50 | Disconnecting Mitochondrial Content from Respiratory Chain Capacity in PGC-1-Deficient Skeletal Muscle. Cell Reports, 2013, 3, 1449-1456. | 6.4 | 93 |
| 51 | Baf60c drives glycolytic metabolism in the muscle and improves systemic glucose homeostasis through Deptor-mediated Akt activation. Nature Medicine, 2013, 19, 640-645. | 30.7 | 121 |
| 52 | Phosphatidylserine receptor BAI1 and apoptotic cells as new promoters of myoblast fusion. Nature, 2013, 497, 263-267. | 27.8 | 239 |
| 53 | Autophagy is involved in adipogenic differentiation by repressesing proteasome-dependent PPARÎ³2 degradation. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E530-E539. | 3.5 | 78 |
| 54 | A novel Mitoâ€Timer reporter gene for measurement of mitochondrial quantity and quality in vivo. FASEB Journal, 2013, 27, 1209.5. | 0.5 | 0 |

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| 55 | Exercise during pregnancy attenuates prenatal highâ€fat dietâ€induced hypermethylation of the Pgcâ€1Î± gene and protects against ageâ€induced glucose intolerance in the offspring. FASEB Journal, 2013, 27, 1134.3. | 0.5 | 0 |
| 56 | Muscleâ€specific deletion of p38Î±/Î² MAPK improves glucose tolerance and reduces body fat but impairs exercise capacity. FASEB Journal, 2013, 27, 1152.22. | 0.5 | 0 |
| 57 | Exercise Training Improves Plantar Flexor Muscle Function in mdx Mice. Medicine and Science in Sports and Exercise, 2012, 44, 1671-1679. | 0.4 | 62 |
| 58 | Exercise Training-Induced Regulation of Mitochondrial Quality. Exercise and Sport Sciences Reviews, 2012, 40, 159-164. | 3.0 | 186 |
| 59 | miR-26a is required for skeletal muscle differentiation and regeneration in mice. Genes and Development, 2012, 26, 2180-2191. | 5.9 | 200 |
| 60 | Midlife gene expressions identify modulators of aging through dietary interventions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1201-9. | 7.1 | 57 |
| 61 | A PGC-1Î± Isoform Induced by Resistance Training Regulates Skeletal Muscle Hypertrophy. Cell, 2012, 151, 1319-1331. | 28.9 | 548 |
| 62 | Kruppel-like factor 15 regulates skeletal muscle lipid flux and exercise adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6739-6744. | 7.1 | 103 |
| 63 | Notch3 and Mef2c Proteins Are Mutually Antagonistic via Mkp1 Protein and miR-1/206 MicroRNAs in Differentiating Myoblasts. Journal of Biological Chemistry, 2012, 287, 40360-40370. | 3.4 | 87 |
| 64 | Nrf2 deficiency in myeloid cells is not sufficient to protect mice from high-fat diet-induced adipose tissue inflammation and insulin resistance. Free Radical Biology and Medicine, 2012, 52, 1708-1715. | 2.9 | 45 |
| 65 | Induction of osteoarthritis and metabolic inflammation by a very highâ€fat diet in mice: Effects of shortâ€term exercise. Arthritis and Rheumatism, 2012, 64, 443-453. | 6.7 | 191 |
| 66 | Atg6 deficiency exacerbates glucose intolerance in mice on highâ€fat diet. FASEB Journal, 2012, 26, 869.18. | 0.5 | 3 |
| 67 | Exercise during pregnancy attenuates prenatal highâ€fat dietâ€induced hypermethylation of Pgcâ€1Î± in skeletal muscle. FASEB Journal, 2012, 26, 1086.19. | 0.5 | 0 |
| 68 | Enhanced expression of EcSOD in skeletal muscle blocks chronic heart failureâ€“induced muscle atrophy and exercise intolerance in mice. FASEB Journal, 2012, 26, . | 0.5 | 0 |
| 69 | Regulation of exercise-induced fiber type transformation, mitochondrial biogenesis, and angiogenesis in skeletal muscle. Journal of Applied Physiology, 2011, 110, 264-274. | 2.5 | 261 |
| 70 | MicroRNA-378 Targets the Myogenic Repressor MyoR during Myoblast Differentiation. Journal of Biological Chemistry, 2011, 286, 19431-19438. | 3.4 | 147 |
| 71 | PGC-1Î± Promotes Nitric Oxide Antioxidant Defenses and Inhibits FOXO Signaling Against Cardiac Cachexia in Mice. American Journal of Pathology, 2011, 178, 1738-1748. | 3.8 | 81 |
| 72 | Total Skeletal Muscle PGC-1 Deficiency Uncouples Mitochondrial Derangements from Fiber Type Determination and Insulin Sensitivity. Cell Metabolism, 2011, 13, 114. | 16.2 | 0 |

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|---|---|---|---|
| 73 | Translational Suppression of Atrophic Regulators by MicroRNA-23a Integrates Resistance to Skeletal Muscle Atrophy. Journal of Biological Chemistry, 2011, 286, 38456-38465. | 3.4 | 165 |
| 74 | Calorie restriction and endurance exercise share potent anti-inflammatory function in adipose tissues in ameliorating diet-induced obesity and insulin resistance in mice. Nutrition and Metabolism, 2010, 7, 59. | 3.0 | 41 |
| 75 | PGC-1Î± plays a functional role in exercise-induced mitochondrial biogenesis and angiogenesis but not fiber-type transformation in mouse skeletal muscle. American Journal of Physiology - Cell Physiology, 2010, 298, C572-C579. | 4.6 | 203 |
| 76 | microRNA-1 and microRNA-206 regulate skeletal muscle satellite cell proliferation and differentiation by repressing Pax7. Journal of Cell Biology, 2010, 190, 867-879. | 5.2 | 530 |
| 77 | PGC-1Î± regulation by exercise training and its influences on muscle function and insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E145-E161. | 3.5 | 313 |
| 78 | Total Skeletal Muscle PGC-1 Deficiency Uncouples Mitochondrial Derangements from Fiber Type Determination and Insulin Sensitivity. Cell Metabolism, 2010, 12, 633-642. | 16.2 | 230 |
| 79 | A functional role of superoxide dismutase 3 in nitric oxideâ€mediated protection against catabolic wasting in skeletal muscle. FASEB Journal, 2010, 24, lb672. | 0.5 | 0 |
| 80 | Increased contractile acitivity induces autophagy in skeletal muscle. FASEB Journal, 2010, 24, lb646. | 0.5 | 0 |
| 81 | p38Î³ Mitogen-Activated Protein Kinase Is a Key Regulator in Skeletal Muscle Metabolic Adaptation in Mice. PLoS ONE, 2009, 4, e7934. | 2.5 | 136 |
| 82 | Voluntary Running Suppresses Proinflammatory Cytokines and Bone Marrow Endothelial Progenitor Cell Levels in Apolipoprotein-Eâ€“Deficient Mice. Antioxidants and Redox Signaling, 2009, 11, 15-23. | 5.4 | 26 |
| 83 | Exercise, PGC-1Î±, and metabolic adaptation in skeletal muscleThis paper article is one of a selection of papers published in this Special Issue, entitled 14th International Biochemistry of Exercise ConferenceÂâ€“ Muscles as Molecular and Metabolic Machines, and has undergone the Journalâ€™s usual peer review process.. Applied Physiology, Nutrition and Metabolism, 2009, 34, 424-427. | 1.9 | 25 |
| 84 | Deletion of the Protein Kinase A/Protein Kinase G Target SMTNL1 Promotes an Exercise-adapted Phenotype in Vascular Smooth Muscle. Journal of Biological Chemistry, 2008, 283, 11850-11859. | 3.4 | 37 |
| 85 | Myocyte Specific Overexpression of Myoglobin Impairs Angiogenesis After Hind-Limb Ischemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 2144-2150. | 2.4 | 22 |
| 86 | Protein Phosphatase 2A Is Targeted to Cell Division Control Protein 6 by a Calcium-binding Regulatory Subunit. Journal of Biological Chemistry, 2008, 283, 16104-16114. | 3.4 | 40 |
| 87 | Functional interaction of regulatory factors with the Pgc-1Î± promoter in response to exercise by in vivo imaging. American Journal of Physiology - Cell Physiology, 2008, 295, C288-C292. | 4.6 | 52 |
| 88 | Correction of Multiple Striated Muscles in Murine Pompe Disease Through Adeno-associated Virusâ€“mediated Gene Therapy. Molecular Therapy, 2008, 16, 1366-1371. | 8.2 | 70 |
| 89 | Fiber Type-Specific Nitric Oxide Protects Oxidative Myofibers against Cachectic Stimuli. PLoS ONE, 2008, 3, e2086. | 2.5 | 70 |
| 90 | PGCâ€1Î± is required for exerciseâ€induced mitochondrial biogenesis, but not fiber type transformation, in skeletal muscle. FASEB Journal, 2008, 22, 754.17. | 0.5 | 0 |

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| 91 | NOâ€dependent upâ€regulation of antioxidant genes protects oxidative myofibers from cachectic stimuli in mice. FASEB Journal, 2008, 22, 754.16. | 0.5 | 0 |
| 92 | p38 gamma Mapk is required for exerciseâ€induced Pgcâ€1alpha expression and mitochondrial biogenesis in skeletal muscle. FASEB Journal, 2008, 22, 754.18. | 0.5 | 1 |
| 93 | Transcriptional Control of the Pgc-1Î± Gene in Skeletal Muscle In Vivo. Exercise and Sport Sciences Reviews, 2007, 35, 97-101. | 3.0 | 24 |
| 94 | Skeletal Muscle Fiber-type Switching, Exercise Intolerance, and Myopathy in PGC-1Î± Muscle-specific Knock-out Animals. Journal of Biological Chemistry, 2007, 282, 30014-30021. | 3.4 | 530 |
| 95 | Oxidative Phenotype Protects Myofibers from Pathological Insults Induced by Chronic Heart Failure in Mice. American Journal of Pathology, 2007, 170, 599-608. | 3.8 | 93 |
| 96 | Resident stem cells are not required for exercise-induced fiber-type switching and angiogenesis but are necessary for activity-dependent muscle growth. American Journal of Physiology - Cell Physiology, 2006, 290, C1461-C1468. | 4.6 | 57 |
| 97 | Intermittent pressure overload triggers hypertrophy-independent cardiac dysfunction and vascular rarefaction. Journal of Clinical Investigation, 2006, 116, 1547-1560. | 8.2 | 220 |
| 98 | Manifested skeletal muscle abnormalities in fastâ€twitch, glycolytic myofibers in mice of chronic heart failure. FASEB Journal, 2006, 20, A387. | 0.5 | 0 |
| 99 | Transcriptional profiling in mouse skeletal muscle following a single bout of voluntary running: evidence of increased cell proliferation. Journal of Applied Physiology, 2005, 99, 2406-2415. | 2.5 | 37 |
| 100 | Peroxisome Proliferator-activated Receptor-Î³ Co-activator 1Î±-mediated Metabolic Remodeling of Skeletal Myocytes Mimics Exercise Training and Reverses Lipid-induced Mitochondrial Inefficiency. Journal of Biological Chemistry, 2005, 280, 33588-33598. | 3.4 | 416 |
| 101 | Exercise Stimulates Pgc-1Î± Transcription in Skeletal Muscle through Activation of the p38 MAPK Pathway. Journal of Biological Chemistry, 2005, 280, 19587-19593. | 3.4 | 575 |
| 102 | Mechanical stretch inhibits myoblast-to-adipocyte differentiation through Wnt signaling. Biochemical and Biophysical Research Communications, 2005, 329, 381-385. | 2.1 | 68 |
| 103 | Analysis of the Major Patterns of B Cell Gene Expression Changes in Response to Short-Term Stimulation with 33 Single Ligands. Journal of Immunology, 2004, 173, 7141-7149. | 0.8 | 55 |
| 104 | TRPC3 channels confer cellular memory of recent neuromuscular activity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9387-9392. | 7.1 | 91 |
| 105 | Real-time imaging of peroxisome proliferator-activated receptor-Î³ coactivator-1Î± promoter activity in skeletal muscles of living mice. American Journal of Physiology - Cell Physiology, 2004, 287, C790-C796. | 4.6 | 108 |
| 106 | Voluntary running induces fiber type-specific angiogenesis in mouse skeletal muscle. American Journal of Physiology - Cell Physiology, 2004, 287, C1342-C1348. | 4.6 | 177 |
| 107 | Skeletal muscle adaptation in response to voluntary running in Ca<sup>2+</sup>/calmodulin-dependent protein kinase IV-deficient mice. American Journal of Physiology - Cell Physiology, 2004, 287, C1311-C1319. | 4.6 | 109 |
| 108 | Highly Coordinated Gene Regulation in Mouse Skeletal Muscle Regeneration. Journal of Biological Chemistry, 2003, 278, 8826-8836. | 3.4 | 227 |

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| 109 | Conditional Expression of SV40 T-antigen in Mouse Cardiomyocytes Facilitates an Inducible Switch from Proliferation to Differentiation. Journal of Biological Chemistry, 2003, 278, 15927-15934. | 3.4 | 42 |
| 110 | Navigating the signalling network in mouse cardiac myocytes. Nature, 2002, 420, 712-714. | 27.8 | 81 |
| 111 | Regulatory Elements Governing Transcription in Specialized Myofiber Subtypes. Journal of Biological Chemistry, 2001, 276, 17361-17366. | 3.4 | 43 |
| 112 | PR48, a Novel Regulatory Subunit of Protein Phosphatase 2A, Interacts with Cdc6 and Modulates DNA Replication in Human Cells. Molecular and Cellular Biology, 2000, 20, 1021-1029. | 2.3 | 114 |
| 113 | Cytochromecpromoter activity in soleus and white vastus lateralis muscles in rats. Journal of Applied Physiology, 1998, 85, 973-978. | 2.5 | 9 |
| 114 | Cytochrome c mRNA in skeletal muscles of immobilized limbs. Journal of Applied Physiology, 1996, 81, 1941-1945. | 2.5 | 21 |