# Randy Strong

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 89 papers | 13,664 citations | 66343 42 h-index | 53230 85 g-index |
| 92 all docs | 92 docs citations | 92 times ranked | 13189 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rapamycin fed late in life extends lifespan in genetically heterogeneous mice. Nature, 2009, 460, 392-395. | 27.8 | 3,191 |
| 2 | Inhibition of mTOR by Rapamycin Abolishes Cognitive Deficits and Reduces Amyloid-Î² Levels in a Mouse Model of Alzheimer's Disease. PLoS ONE, 2010, 5, e9979. | 2.5 | 875 |
| 3 | Rapamycin, But Not Resveratrol or Simvastatin, Extends Life Span of Genetically Heterogeneous Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 191-201. | 3.6 | 774 |
| 4 | Molecular Interplay between Mammalian Target of Rapamycin (mTOR), Amyloid-Î², and Tau. Journal of Biological Chemistry, 2010, 285, 13107-13120. | 3.4 | 754 |
| 5 | Life-long reduction in MnSOD activity results in increased DNA damage and higher incidence of cancer but does not accelerate aging. Physiological Genomics, 2003, 16, 29-37. | 2.3 | 654 |
| 6 | Rapamycin slows aging in mice. Aging Cell, 2012, 11, 675-682. | 6.7 | 580 |
| 7 | Rapamycinâ€mediated lifespan increase in mice is dose and sex dependent and metabolically distinct from dietary restriction. Aging Cell, 2014, 13, 468-477. | 6.7 | 486 |
| 8 | Absence of CuZn superoxide dismutase leads to elevated oxidative stress and acceleration of age-dependent skeletal muscle atrophy. Free Radical Biology and Medicine, 2006, 40, 1993-2004. | 2.9 | 378 |
| 9 | Inducing Autophagy by Rapamycin Before, but Not After, the Formation of Plaques and Tangles Ameliorates Cognitive Deficits. PLoS ONE, 2011, 6, e25416. | 2.5 | 357 |
| 10 | Acarbose, 17â€Î±â€estradiol, and nordihydroguaiaretic acid extend mouse lifespan preferentially in males. Aging Cell, 2014, 13, 273-282. | 6.7 | 331 |
| 11 | Rapamycin Reverses Elevated mTORC1 Signaling in Lamin A/Câ€"Deficient Mice, Rescues Cardiac and Skeletal Muscle Function, and Extends Survival. Science Translational Medicine, 2012, 4, 144ra103. | 12.4 | 300 |
| 12 | Nordihydroguaiaretic acid and aspirin increase lifespan of genetically heterogeneous male mice. Aging Cell, 2008, 7, 641-650. | 6.7 | 283 |
| 13 | Longer lifespan in male mice treated with a weakly estrogenic agonist, an antioxidant, an Î±â€glucosidase inhibitor or a Nrf2â€inducer. Aging Cell, 2016, 15, 872-884. | 6.7 | 277 |
| 14 | Late-life rapamycin treatment reverses age-related heart dysfunction. Aging Cell, 2013, 12, 851-862. | 6.7 | 258 |
| 15 | Changes in the gut microbiome and fermentation products concurrent with enhanced longevity in acarbose-treated mice. BMC Microbiology, 2019, 19, 130. | 3.3 | 218 |
| 16 | Genetic mouse models of extended lifespan. Experimental Gerontology, 2003, 38, 1353-1364. | 2.8 | 208 |
| 17 | WIN55,212â€2, a cannabinoid receptor agonist, protects against nigrostriatal cell loss in the 1â€methylâ€4â€phenylâ€1,2,3,6â€tetrahydropyridine mouse model of Parkinsonâ€™s disease. European Journal of Neuroscience, 2009, 29, 2177-2186. | 2.6 | 202 |
| 18 | Lifelong rapamycin administration ameliorates ageâ€dependent cognitive deficits by reducing ILâ€1Î² and enhancing NMDA signaling. Aging Cell, 2012, 11, 326-335. | 6.7 | 193 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Evaluation of Resveratrol, Green Tea Extract, Curcumin, Oxaloacetic Acid, and Medium-Chain Triglyceride Oil on Life Span of Genetically Heterogeneous Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 6-16. | 3.6 | 182 |
| 20 | Chronic Rapamycin Restores Brain Vascular Integrity and Function Through NO Synthase Activation and Improves Memory in Symptomatic Mice Modeling Alzheimerâ€™s Disease. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1412-1421. | 4.3 | 181 |
| 21 | An aging Interventions Testing Program: study design and interim report. Aging Cell, 2007, 6, 565-575. | 6.7 | 177 |
| 22 | Determinants of buildup of the toxic dopamine metabolite <scp>DOPAL</scp> in Parkinson's disease. Journal of Neurochemistry, 2013, 126, 591-603. | 3.9 | 169 |
| 23 | Neurodegeneration and Motor Dysfunction in Mice Lacking Cytosolic and Mitochondrial Aldehyde Dehydrogenases: Implications for Parkinson's Disease. PLoS ONE, 2012, 7, e31522. | 2.5 | 142 |
| 24 | Prostaglandin H Synthetaseâ€Mediated Metabolism of Dopamine: Implication for Parkinson's Disease. Journal of Neurochemistry, 1995, 64, 1645-1654. | 3.9 | 135 |
| 25 | Multiple deficiencies in antioxidant enzymes in mice result in a compound increase in sensitivity to oxidative stress. Free Radical Biology and Medicine, 2004, 36, 1625-1634. | 2.9 | 117 |
| 26 | Lifespan extension in genetically modified mice. Aging Cell, 2009, 8, 346-352. | 6.7 | 100 |
| 27 | An endogenous dopaminergic neurotoxin: Implication for Parkinson's disease. Experimental Neurology, 1995, 4, 271-281. | 1.7 | 96 |
| 28 | Acarbose improves health and lifespan in aging HET3 mice. Aging Cell, 2019, 18, e12898. | 6.7 | 90 |
| 29 | The effect of aging and dietary restriction on DNA repair. Experimental Cell Research, 1989, 181, 197-204. | 2.6 | 89 |
| 30 | NIA Interventions Testing Program: Investigating Putative Aging Intervention Agents in a Genetically Heterogeneous Mouse Model. EBioMedicine, 2017, 21, 3-4. | 6.1 | 87 |
| 31 | Rapamycin extends life span of Rb1+/â^’ mice by inhibiting neuroendocrine tumors. Aging, 2013, 5, 100-110. | 3.1 | 80 |
| 32 | Glutathione peroxidase 4 protects cortical neurons from oxidative injury and amyloid toxicity. Journal of Neuroscience Research, 2006, 84, 202-208. | 2.9 | 79 |
| 33 | Housing Density Does Not Influence the Longevity Effect of Calorie Restriction. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 1510-1517. | 3.6 | 71 |
| 34 | Effects of chronic plus acute prolonged stress on measures of coping style, anxiety, and evoked HPA-axis reactivity. Neuropharmacology, 2012, 63, 1118-1126. | 4.1 | 64 |
| 35 | eRapa Restores a Normal Life Span in a FAP Mouse Model. Cancer Prevention Research, 2014, 7, 169-178. | 1.5 | 63 |
| 36 | Rapamycin-induced metabolic defects are reversible in both lean and obese mice. Aging, 2014, 6, 742-754. | 3.1 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Exogenous prenatal corticosterone exposure mimics the effects of prenatal stress on adult brain stress response systems and fear extinction behavior. Psychoneuroendocrinology, 2013, 38, 2746-2757. | 2.7 | 58 |
| 38 | Effects of acute restraint stress on tyrosine hydroxylase mRNA expression in locus coeruleus of Wistar and Wistar-Kyoto rats. Molecular Brain Research, 2000, 75, 1-7. | 2.3 | 57 |
| 39 | Glycine supplementation extends lifespan of male and female mice. Aging Cell, 2019, 18, e12953. | 6.7 | 53 |
| 40 | Rapamycin improves motor function, reduces 4-hydroxynonenal adducted protein in brain, and attenuates synaptic injury in a mouse model of synucleinopathy. Pathobiology of Aging & Age Related Diseases, 2015, 5, 28743. | 1.1 | 51 |
| 41 | Canagliflozin extends life span in genetically heterogeneous male but not female mice. JCI Insight, 2020, 5, . | 5.0 | 51 |
| 42 | Hydrogen sulfide ameliorates aging-associated changes in the kidney. GeroScience, 2018, 40, 163-176. | 4.6 | 49 |
| 43 | Rapamycinâ€mediated mouse lifespan extension: Lateâ€life dosage regimes with sexâ€specific effects. Aging Cell, 2020, 19, e13269. | 6.7 | 49 |
| 44 | 17â€αâ€estradiol late in life extends lifespan in aging UMâ€HET3 male mice; nicotinamide riboside and three other drugs do not affect lifespan in either sex. Aging Cell, 2021, 20, e13328. | 6.7 | 48 |
| 45 | Identification of a glucocorticoid-responsive element in the promoter region of the mouse tyrosine hydroxylase gene. Journal of Neurochemistry, 2008, 76, 825-834. | 3.9 | 47 |
| 46 | Cognitive Dysfunction Precedes the Onset of Motor Symptoms in the MitoPark Mouse Model of Parkinsonâ€™s Disease. PLoS ONE, 2013, 8, e71341. | 2.5 | 47 |
| 47 | High-Affinity Uptake of Neurotransmitters in Rat Neostriatum: Effects of Aging. Journal of Neurochemistry, 1984, 43, 1766-1768. | 3.9 | 45 |
| 48 | Cardiolipin remodeling by ALCAT1 links mitochondrial dysfunction to Parkinsonâ€™s diseases. Aging Cell, 2019, 18, e12941. | 6.7 | 45 |
| 49 | Cholinergic deficits in the septalâ€"hippocampal pathway of the SAM-P/8 senescence accelerated mouse. Brain Research, 2003, 966, 150-156. | 2.2 | 43 |
| 50 | The Role of mTOR Signaling in Controlling Mammalian Life Span: What a Fungicide Teaches Us About Longevity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 580-589. | 3.6 | 42 |
| 51 | Metabolic consequences of long-term rapamycin exposure on common marmoset monkeys (Callithrix) Tj ETQq1 1 0.784314 rgBT /Overlock | 3.1 | 42 |
| 52 | Comparison of the hepatic mixed function oxidase system of young, adult, and old non- human primates (Macaca nemestrina). Biochemical Pharmacology, 1985, 34, 2983-2987. | 4.4 | 40 |
| 53 | Plasma Glucose and the Action of Calorie Restriction on Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 1059-1070. | 3.6 | 39 |
| 54 | Transcriptional and Posttranscriptional Control of Tyrosine Hydroxylase Gene Expression During Persistent Stimulation of Pituitary Adenylate Cyclaseâ€Activating Polypeptide Receptors on PC12 Cells: Regulation by Protein Kinase Aâ€Dependent and Protein Kinase Aâ€Independent Pathways. Journal of Neurochemistry, 1998, 71, 478-486. | 3.9 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Vasoactive Intestinal Polypeptide-Related Peptides Modulate Tyrosine Hydroxylase Gene Expression in PC12 Cells Through Multiple Adenylate Cyclase-Coupled Receptors. Journal of Neurochemistry, 1993, 60, 1018-1029. | 3.9 | 36 |
| 56 | Interaction of a glucocorticoid-responsive element with regulatory sequences in the promoter region of the mouse tyrosine hydroxylase gene. Journal of Neurochemistry, 2001, 78, 1379-1388. | 3.9 | 35 |
| 57 | Identification of an Activator Protein-1-Like Sequence as the Glucocorticoid Response Element in the Rat Tyrosine Hydroxylase Gene. Molecular Pharmacology, 2009, 75, 589-598. | 2.3 | 34 |
| 58 | Confirmation of a dopamine metabolite in parkinsonian brain tissue by gas chromatographyâ€"mass spectrometry. Biomedical Applications, 1993, 614, 205-212. | 1.7 | 32 |
| 59 | Metformin reduces glucose intolerance caused by rapamycin treatment in genetically heterogeneous female mice. Aging, 2018, 10, 386-401. | 3.1 | 32 |
| 60 | Regional analysis of neostriatal cholinergic and dopaminergic receptor binding and tyrosine hydroxylase activity as a function of aging. Neurochemical Research, 1984, 9, 1641-1652. | 3.3 | 28 |
| 61 | Modulation of Age-Related Changes in Serum 1,25-Dihydroxyvitamin D and Parathyroid Hormone by Dietary Restriction of Fischer 344 Rats. Journal of Nutrition, 1988, 118, 1360-1365. | 2.9 | 26 |
| 62 | Intra-regional variations in the effect of aging on high affinity choline uptake, choline acetyltransferase and muscarinic cholinergic receptors in rat neostriatum. Experimental Gerontology, 1986, 21, 177-186. | 2.8 | 25 |
| 63 | Genetically heterogeneous mice exhibit a female survival advantage that is ageâ€•and siteâ€specific: Results from a large multiâ€site study. Aging Cell, 2019, 18, e12905. | 6.7 | 24 |
| 64 | Rapamycin Extends Life Span in Apc Colon Cancer FAP Model. Clinical Colorectal Cancer, 2021, 20, e61-e70. | 2.3 | 22 |
| 65 | Monoamine Metabolism and Behavioral Responses to Ethanol in Mitochondrial Aldehyde Dehydrogenase Knockout Mice. Alcoholism: Clinical and Experimental Research, 2006, 30, 1650-1658. | 2.4 | 20 |
| 66 | Fluidizing effects of centrophenoxine on brain and liver membranes from different age groups of mice. Life Sciences, 1986, 39, 2089-2095. | 4.3 | 19 |
| 67 | Divergent tissue and sex effects of rapamycin on the proteasome-chaperone network of old mice. Frontiers in Molecular Neuroscience, 2014, 7, 83. | 2.9 | 17 |
| 68 | A Novel Model of Dexamethasone-Induced Hypertension: Use in Investigating the Role of Tyrosine Hydroxylase. Journal of Pharmacology and Experimental Therapeutics, 2016, 358, 528-536. | 2.5 | 17 |
| 69 | Evolutionary conservation of an atypical glucocorticoidâ€responsive element in the human tyrosine hydroxylase gene. Journal of Neurochemistry, 2013, 126, 19-28. | 3.9 | 15 |
| 70 | STRONG STAR and the Consortium to Alleviate PTSD: Shaping the future of combat PTSD and related conditions in military and veteran populations. Contemporary Clinical Trials, 2021, 110, 106583. | 1.8 | 15 |
| 71 | Effects of anabolic androgenic steroids and social subjugation on behavior and neurochemistry in male rats. Pharmacology Biochemistry and Behavior, 2011, 97, 416-422. | 2.9 | 12 |
| 72 | Adaptations to chronic rapamycin in mice. Pathobiology of Aging & Age Related Diseases, 2016, 6, 31688. | 1.1 | 12 |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 73 | Characterization of peroxidative oxidation products of dopamine by mass spectrometry. Biomedical Applications, 1994, 658, 21-30. | 1.7 | 11 |
| 74 | Cloning and characterization of a testis and brain-specific isoform of mouse 3â€²-phosphoinositide-dependent protein kinase-1, mPDK-1Î². Biochemical and Biophysical Research Communications, 2002, 294, 136-144. | 2.1 | 11 |
| 75 | NIA Interventions Testing Program: A collaborative approach for investigating interventions to promote healthy aging. , 2021, , 219-235. | | 11 |
| 76 | Neurochemical and motor changes in mice with combined mutations linked to Parkinsonâ€™s disease. Pathobiology of Aging & Age Related Diseases, 2017, 7, 1267855. | 1.1 | 8 |
| 77 | Dexamethasone Causes Hypertension in Rats Even Under Chemical Blockade of Peripheral Sympathetic Nerves. Frontiers in Neuroscience, 2019, 13, 1305. | 2.8 | 8 |
| 78 | Nuclei Isolation from Bone Cells for Nuclear Run-on Assays. BioTechniques, 1997, 23, 422-424. | 1.8 | 7 |
| 79 | Sex-dependent lifespan extension of ApcMin/+ FAP mice by chronic mTOR inhibition. Aging Pathobiology and Therapeutics, 2020, 2, 187-194. | 0.5 | 7 |
| 80 | A tetracycline-repressible transactivator approach suggests a shorter half-life for tyrosine hydroxylase mRNA. Brain Research Protocols, 2001, 7, 137-146. | 1.6 | 6 |
| 81 | Chronic ethanol consumption and aging: Changes in lipid composition of liver microsomes. Experimental Gerontology, 1986, 21, 195-201. | 2.8 | 4 |
| 82 | Renal responses produced by microinjection of the kappa opioid receptor agonist, U50â€488H, into sites within the rat lamina terminalis. Pharmacology Research and Perspectives, 2015, 3, e00117. | 2.4 | 4 |
| 83 | San Antonio Nathan Shock Center: your one-stop shop for aging research. GeroScience, 2021, 43, 2105-2118. | 4.6 | 4 |
| 84 | Expression of synaptophysin protein in different dopaminergic cell lines. Journal of Biochemical and Pharmacological Research, 2014, 2, 185-190. | 1.7 | 4 |
| 85 | NIA Interventions Testing Program. , 2016, , 287-303. | | 3 |
| 86 | Homozygous Deletion of Glutathione Peroxidase 1 and Aldehyde Dehydrogenase 1a1 Genes Is Not Associated with Schizophrenia-Like Behavior in Mice. Journal of Biochemical and Pharmacological Research, 2013, 1, 228-235. | 1.7 | 3 |
| 87 | Short- and long-term effects of PACAP in PC12 cells: Phosphorylation and induction of tyrosine hydroxylase. Regulatory Peptides, 1992, 37, 332. | 1.9 | 1 |
| 88 | Geriatric Clinical Pharmacology. Topics in Geriatric Rehabilitation, 1988, 3, 77. | 0.4 | 0 |
| 89 | Detoxification of Biogenic Aldehydes in ParkinsonÂ¡Â¦s Disease. FASEB Journal, 2009, 23, 963.4. | 0.5 | 0 |