# Kevin G Becker

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 180 papers | 20,919 citations | 17405 63 h-index | 10424 139 g-index |
| 182 all docs | 182 docs citations | 182 times ranked | 29968 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Resveratrol improves health and survival of mice on a high-calorie diet. Nature, 2006, 444, 337-342. | 13.7 | 3,882 |
| 2 | Metformin improves healthspan and lifespan in mice. Nature Communications, 2013, 4, 2192. | 5.8 | 1,118 |
| 3 | Resveratrol Delays Age-Related Deterioration and Mimics Transcriptional Aspects of Dietary Restriction without Extending Life Span. Cell Metabolism, 2008, 8, 157-168. | 7.2 | 1,060 |
| 4 | The Genetic Association Database. Nature Genetics, 2004, 36, 431-432. | 9.4 | 888 |
| 5 | LincRNA-p21 Suppresses Target mRNA Translation. Molecular Cell, 2012, 47, 648-655. | 4.5 | 876 |
| 6 | Analysis of Microarray Data Using Z Score Transformation. Journal of Molecular Diagnostics, 2003, 5, 73-81. | 1.2 | 860 |
| 7 | miR-24 Inhibits Cell Proliferation by Targeting E2F2, MYC, and Other Cell-Cycle Genes via Binding to â€œSeedlessâ€•3â€²UTR MicroRNA Recognition Elements. Molecular Cell, 2009, 35, 610-625. | 4.5 | 544 |
| 8 | Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. Cell Metabolism, 2016, 23, 1093-1112. | 7.2 | 360 |
| 9 | AGEMAP: A Gene Expression Database for Aging in Mice. PLoS Genetics, 2007, 3, e201. | 1.5 | 355 |
| 10 | The SIRT1 Activator SRT1720 Extends Lifespan and Improves Health of Mice Fed a Standard Diet. Cell Reports, 2014, 6, 836-843. | 2.9 | 342 |
| 11 | Transcriptional Profiling of Aging in Human Muscle Reveals a Common Aging Signature. PLoS Genetics, 2006, 2, e115. | 1.5 | 331 |
| 12 | MicroRNA Expression and Identification of Putative miRNA Targets in Ovarian Cancer. PLoS ONE, 2008, 3, e2436. | 1.1 | 303 |
| 13 | Microarray analysis of gene expression in the prefrontal cortex in schizophrenia: a preliminary study. Schizophrenia Research, 2002, 58, 11-20. | 1.1 | 261 |
| 14 | Genome-wide Analysis of Histone Methylation Reveals Chromatin State-Based Regulation of Gene Transcription and Function of Memory CD8+ T Cells. Immunity, 2009, 30, 912-925. | 6.6 | 256 |
| 15 | SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70. | 1.6 | 249 |
| 16 | Analysis of gene expression in multiple sclerosis lesions using cDNA microarrays. Annals of Neurology, 1999, 46, 425-428. | 2.8 | 237 |
| 17 | Application of cDNA microarrays to examine gene expression differences in schizophrenia. Brain Research Bulletin, 2001, 55, 641-650. | 1.4 | 236 |
| 18 | Global analysis of stress-regulated mRNA turnover by using cDNA arrays. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10611-10616. | 3.3 | 212 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Calorie restriction in humans inhibits the <scp>PI</scp>3<scp>K</scp>/<scp>AKT</scp> pathway and induces a younger transcription profile. Aging Cell, 2013, 12, 645-651. | 3.0 | 208 |
| 20 | <scp>SRT</scp> 2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. Aging Cell, 2014, 13, 787-796. | 3.0 | 208 |
| 21 | Transcriptional profiling of aging in human muscle reveals a common aging signature. PLoS Genetics, 2005, preprint, e115. | 1.5 | 208 |
| 22 | Senescence-associated lncRNAs: senescence-associated long noncoding RNAs. Aging Cell, 2013, 12, 890-900. | 3.0 | 184 |
| 23 | PubMatrix: a tool for multiplex literature mining. BMC Bioinformatics, 2003, 4, 61. | 1.2 | 180 |
| 24 | Altered Extracellular Vesicle Concentration, Cargo, and Function in Diabetes. Diabetes, 2018, 67, 2377-2388. | 0.3 | 176 |
| 25 | Sex-Dependent Metabolic, Neuroendocrine, and Cognitive Responses to Dietary Energy Restriction and Excess. Endocrinology, 2007, 148, 4318-4333. | 1.4 | 167 |
| 26 | Control of gene expression during T cell activation: alternate regulation of mRNA transcription and mRNA stability. BMC Genomics, 2005, 6, 75. | 1.2 | 163 |
| 27 | PAR-CLIP analysis uncovers AUF1 impact on target RNA fate and genome integrity. Nature Communications, 2014, 5, 5248. | 5.8 | 156 |
| 28 | Metforminâ€mediated increase in DICER1 regulates microRNA expression and cellular senescence. Aging Cell, 2016, 15, 572-581. | 3.0 | 153 |
| 29 | The common variants/multiple disease hypothesis of common complex genetic disorders. Medical Hypotheses, 2004, 62, 309-317. | 0.8 | 144 |
| 30 | Hippocampal gene expression patterns underlying the enhancement of memory by running in aged mice. Neurobiology of Aging, 2010, 31, 1937-1949. | 1.5 | 135 |
| 31 | Mice Fed Rapamycin Have an Increase in Lifespan Associated with Major Changes in the Liver Transcriptome. PLoS ONE, 2014, 9, e83988. | 1.1 | 132 |
| 32 | Commensal bacteria contribute to insulin resistance in aging by activating innate B1a cells. Science Translational Medicine, 2018, 10, . | 5.8 | 121 |
| 33 | FACS purification of immunolabeled cell types from adult rat brain. Journal of Neuroscience Methods, 2012, 203, 10-18. | 1.3 | 119 |
| 34 | Tomatidine enhances lifespan and healthspan in C. elegans through mitophagy induction via the SKN-1/Nrf2 pathway. Scientific Reports, 2017, 7, 46208. | 1.6 | 116 |
| 35 | CREB phosphorylation regulates striatal transcriptional responses in the self-administration model of methamphetamine addiction in the rat. Neurobiology of Disease, 2013, 58, 132-143. | 2.1 | 115 |
| 36 | Methamphetamine Causes Differential Alterations in Gene Expression and Patterns of Histone Acetylation/Hypoacetylation in the Rat Nucleus Accumbens. PLoS ONE, 2012, 7, e34236. | 1.1 | 111 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | iTRAQ Analysis of Complex Proteome Alterations in 3xTgAD Alzheimer's Mice: Understanding the Interface between Physiology and Disease. PLoS ONE, 2008, 3, e2750. | 1.1 | 110 |
| 38 | DNA polymerase Î² deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. Nucleic Acids Research, 2015, 43, 943-959. | 6.5 | 110 |
| 39 | Systematic analysis, comparison, and integration of disease based human genetic association data and mouse genetic phenotypic information. BMC Medical Genomics, 2010, 3, 1. | 0.7 | 106 |
| 40 | Gene expression atlas of the mouse central nervous system: impact and interactions of age, energy intake and gender. Genome Biology, 2007, 8, R234. | 13.9 | 103 |
| 41 | AMPK agonist AICAR improves cognition and motor coordination in young and aged mice. Learning and Memory, 2014, 21, 119-126. | 0.5 | 102 |
| 42 | Skeletal muscle exÂvivo mitochondrial respiration parallels decline inÂvivo oxidative capacity, cardiorespiratory fitness, and muscle strength: The Baltimore Longitudinal Study of Aging. Aging Cell, 2018, 17, e12725. | 3.0 | 101 |
| 43 | Region-specific transcriptional response to chronic nicotine in rat brain. Brain Research, 2001, 909, 194-203. | 1.1 | 96 |
| 44 | Mannose receptor modulates macrophage polarization and allergic inflammation through miR-511-3p. Journal of Allergy and Clinical Immunology, 2018, 141, 350-364.e8. | 1.5 | 91 |
| 45 | Amitriptyline-Mediated Cognitive Enhancement in Aged 3Ã—Tg Alzheimer's Disease Mice Is Associated with Neurogenesis and Neurotrophic Activity. PLoS ONE, 2011, 6, e21660. | 1.1 | 82 |
| 46 | Autism, asthma, inflammation, and the hygiene hypothesis. Medical Hypotheses, 2007, 69, 731-740. | 0.8 | 81 |
| 47 | Development of a highly specialized cDNA array for the study and diagnosis of epithelial ovarian cancer. Cancer Research, 2002, 62, 2923-8. | 0.4 | 81 |
| 48 | Gene expression characteristics of CD28null memory phenotype CD8+ T cells and its implication in T-cell aging. Immunological Reviews, 2005, 205, 190-206. | 2.8 | 80 |
| 49 | A Novel Combination of Factors, Termed SPIE, which Promotes Dopaminergic Neuron Differentiation from Human Embryonic Stem Cells. PLoS ONE, 2009, 4, e6606. | 1.1 | 79 |
| 50 | Gene Expression Profile of Herpesvirus-Infected T Cells Obtained Using Immunomicroarrays: Induction of Proinflammatory Mechanisms. Journal of Virology, 2001, 75, 11641-11650. | 1.5 | 78 |
| 51 | CHD5, a Brain-Specific Paralog of Mi2 Chromatin Remodeling Enzymes, Regulates Expression of Neuronal Genes. PLoS ONE, 2011, 6, e24515. | 1.1 | 76 |
| 52 | Extension of Lifespan in C. elegans by Naphthoquinones That Act through Stress Hormesis Mechanisms. PLoS ONE, 2011, 6, e21922. | 1.1 | 76 |
| 53 | Methamphetamine Induces Dopamine D1 Receptor-Dependent Endoplasmic Reticulum Stress-Related Molecular Events in the Rat Striatum. PLoS ONE, 2009, 4, e6092. | 1.1 | 76 |
| 54 | Extremely Long-Range Chromatin Loops Link Topological Domains to Facilitate a Diverse Antibody Repertoire. Cell Reports, 2016, 14, 896-906. | 2.9 | 75 |

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|---|---|---|---|
| 55 | MNKs act as a regulatory switch for eIF4E1 and eIF4E3 driven mRNA translation in DLBCL. Nature Communications, 2014, 5, 5413. | 5.8 | 73 |
| 56 | Role of heparin binding growth factors in nigrostriatal dopamine system development and Parkinson's disease. Brain Research, 2007, 1147, 77-88. | 1.1 | 71 |
| 57 | Nontelomeric TRF2-REST Interaction Modulates Neuronal Gene Silencing and Fate of Tumor and Stem Cells. Current Biology, 2008, 18, 1489-1494. | 1.8 | 71 |
| 58 | VENNTUREâ€“A Novel Venn Diagram Investigational Tool for Multiple Pharmacological Dataset Analysis. PLoS ONE, 2012, 7, e36911. | 1.1 | 71 |
| 59 | Hippocampal Transcriptomic and Proteomic Alterations in the BTBR Mouse Model of Autism Spectrum Disorder. Frontiers in Physiology, 2015, 6, 324. | 1.3 | 70 |
| 60 | Absence of cannabinoid 1 receptor in beta cells protects against high-fat/high-sugar diet-induced beta cell dysfunction and inflammation in murine islets. Diabetologia, 2018, 61, 1470-1483. | 2.9 | 69 |
| 61 | Protease Activated Receptor Signaling Is Required for African Trypanosome Traversal of Human Brain Microvascular Endothelial Cells. PLoS Neglected Tropical Diseases, 2009, 3, e479. | 1.3 | 68 |
| 62 | An overview of the BioCreative 2012 Workshop Track III: interactive text mining task. Database: the Journal of Biological Databases and Curation, 2013, 2013, bas056-bas056. | 1.4 | 68 |
| 63 | Claudin-7 Is Frequently Overexpressed in Ovarian Cancer and Promotes Invasion. PLoS ONE, 2011, 6, e22119. | 1.1 | 66 |
| 64 | Genetic and environmental pathways to complex diseases. BMC Systems Biology, 2009, 3, 46. | 3.0 | 65 |
| 65 | Application of z-score transformation to Affymetrix data. Applied Bioinformatics, 2003, 2, 209-17. | 1.7 | 64 |
| 66 | Minimal Peroxide Exposure of Neuronal Cells Induces Multifaceted Adaptive Responses. PLoS ONE, 2010, 5, e14352. | 1.1 | 61 |
| 67 | Gene expression and pathway analysis of ovarian cancer cells selected for resistance to cisplatin, paclitaxel, or doxorubicin. Journal of Ovarian Research, 2011, 4, 21. | 1.3 | 61 |
| 68 | MIR100 host gene-encoded lncRNAs regulate cell cycle by modulating the interaction between HuR and its target mRNAs. Nucleic Acids Research, 2018, 46, 10405-10416. | 6.5 | 61 |
| 69 | Histone acetylation is associated with differential gene expression in the rapid and robust memory CD8+ T-cell response. Blood, 2006, 108, 3363-3370. | 0.6 | 60 |
| 70 | Effects of aging and calorie restriction on the global gene expression profiles of mouse testis and ovary. BMC Biology, 2008, 6, 24. | 1.7 | 59 |
| 71 | Microarray Analysis Reveals Interleukin-6 as a Novel Secretory Product of the Hypothalamo-neurohypophyseal System. Journal of Biological Chemistry, 2003, 278, 19280-19285. | 1.6 | 58 |
| 72 | Elongator and codon bias regulate protein levels in mammalian peripheral neurons. Nature Communications, 2018, 9, 889. | 5.8 | 58 |

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|---|---|---|---|
| 73 | A Mechanism for the Inhibition of Neural Progenitor Cell Proliferation by Cocaine. PLoS Medicine, 2008, 5, e117. | 3.9 | 58 |
| 74 | Dynamic BRG1 Recruitment during T Helper Differentiation and Activation Reveals Distal Regulatory Elements. Molecular and Cellular Biology, 2011, 31, 1512-1527. | 1.1 | 56 |
| 75 | Single Round of Antigen Receptor Signaling Programs Naive B Cells to Receive T Cell Help. Immunity, 2010, 32, 355-366. | 6.6 | 54 |
| 76 | The mitochondrial uncoupler <scp>DNP</scp> triggers brain cell <scp>mTOR</scp> signaling network reprogramming andÂ<scp>CREB</scp> pathway upâ€regulation. Journal of Neurochemistry, 2015, 134, 677-692. | 2.1 | 53 |
| 77 | Novel RNA-binding activity of MYF5 enhancesCcnd1/Cyclin D1mRNA translation during myogenesis. Nucleic Acids Research, 2016, 44, 2393-2408. | 6.5 | 52 |
| 78 | Long-Term Artificial Sweetener Acesulfame Potassium Treatment Alters Neurometabolic Functions in C57BL/6J Mice. PLoS ONE, 2013, 8, e70257. | 1.1 | 50 |
| 79 | TCRÎ² repertoire of CD4+ and CD8+ T cells is distinct in richness, distribution, and CDR3 amino acid composition. Journal of Leukocyte Biology, 2016, 99, 505-513. | 1.5 | 50 |
| 80 | Transcriptional Changes Common to Human Cocaine, Cannabis and Phencyclidine Abuse. PLoS ONE, 2006, 1, e114. | 1.1 | 50 |
| 81 | Methamphetamine Preconditioning Alters Midbrain Transcriptional Responses to Methamphetamine-Induced Injury in the Rat Striatum. PLoS ONE, 2009, 4, e7812. | 1.1 | 49 |
| 82 | Non-Steroidal Anti-inflammatory Drugs Decrease E2F1 Expression and Inhibit Cell Growth in Ovarian Cancer Cells. PLoS ONE, 2013, 8, e61836. | 1.1 | 49 |
| 83 | Blast traumatic brain injuryâ€“induced cognitive deficits are attenuated by preinjury or postinjury treatment with the glucagonâ€like peptideâ€1 receptor agonist, exendinâ€4. Alzheimer's and Dementia, 2016, 12, 34-48. | 0.4 | 48 |
| 84 | Sporadic Alzheimer disease fibroblasts display an oxidative stress phenotype. Free Radical Biology and Medicine, 2012, 53, 1371-1380. | 1.3 | 47 |
| 85 | Conserved and Differential Effects of Dietary Energy Intake on the Hippocampal Transcriptomes of Females and Males. PLoS ONE, 2008, 3, e2398. | 1.1 | 46 |
| 86 | Disulfiram Treatment Normalizes Body Weight in Obese Mice. Cell Metabolism, 2020, 32, 203-214.e4. | 7.2 | 46 |
| 87 | Age-Related Brain Expression and Regulation of the Chemokine CCL4/MIP-1Î² in APP/PS1 Double-Transgenic Mice. Journal of Neuropathology and Experimental Neurology, 2014, 73, 362-374. | 0.9 | 45 |
| 88 | Metabolic and molecular framework for the enhancement of endurance by intermittent food deprivation. FASEB Journal, 2018, 32, 3844-3858. | 0.2 | 45 |
| 89 | Growth Factor Signals in Neural Cells. Journal of Biological Chemistry, 2009, 284, 2493-2511. | 1.6 | 44 |
| 90 | Age-associated changes in basal NF-ÎºB function in human CD4+ T lymphocytes via dysregulation of PI3 kinase. Aging, 2014, 6, 957-969. | 1.4 | 44 |

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|---|---|---|---|
| 91 | Identification of Transformation-Related Pathways in a Breast Epithelial Cell Model Using a Ribonomics Approach. Cancer Research, 2008, 68, 7730-7735. | 0.4 | 43 |
| 92 | Genome-wide profiling identifies a subset of methamphetamine (METH)-induced genes associated with METH-induced increased H4K5Ac binding in the rat striatum. BMC Genomics, 2013, 14, 545. | 1.2 | 43 |
| 93 | AUF1 promotes let-7b loading on Argonaute 2. Genes and Development, 2015, 29, 1599-1604. | 2.7 | 41 |
| 94 | Delineation of a Conserved Arrestin-Biased Signaling Repertoire In Vivo. Molecular Pharmacology, 2015, 87, 706-717. | 1.0 | 40 |
| 95 | Sarcopenia, Aging and Prospective Interventional Strategies. Current Medicinal Chemistry, 2019, 25, 5588-5596. | 1.2 | 40 |
| 96 | Down-Regulation of eIF4GII by miR-520c-3p Represses Diffuse Large B Cell Lymphoma Development. PLoS Genetics, 2014, 10, e1004105. | 1.5 | 39 |
| 97 | RNA-Binding Protein AUF1 Promotes Myogenesis by Regulating MEF2C Expression Levels. Molecular and Cellular Biology, 2014, 34, 3106-3119. | 1.1 | 39 |
| 98 | Platelet MicroRNAs: An Overview. Transfusion Medicine Reviews, 2015, 29, 215-219. | 0.9 | 39 |
| 99 | Transcriptional outcomes and kinetic patterning of gene expression in response to NF-Î²B activation. PLoS Biology, 2018, 16, e2006347. | 2.6 | 37 |
| 100 | Time-Dependent c-Myc Transactomes Mapped by Array-Based Nuclear Run-On Reveal Transcriptional Modules in Human B Cells. PLoS ONE, 2010, 5, e9691. | 1.1 | 37 |
| 101 | The sharing of cDNA microarray data. Nature Reviews Neuroscience, 2001, 2, 438-440. | 4.9 | 36 |
| 102 | ATM regulates a DNA damage response posttranscriptional RNA operon in lymphocytes. Blood, 2011, 117, 2441-2450. | 0.6 | 36 |
| 103 | Cognitive Impairments Induced by Concussive Mild Traumatic Brain Injury in Mouse Are Ameliorated by Treatment with Phenserine via Multiple Non-Cholinergic and Cholinergic Mechanisms. PLoS ONE, 2016, 11, e0156493. | 1.1 | 36 |
| 104 | A Murine Dopamine Neuron-Specific cDNA Library and Microarray: Increased COXI Expression during Methamphetamine Neurotoxicity. Neurobiology of Disease, 2001, 8, 822-833. | 2.1 | 35 |
| 105 | Transcriptional profiling in an MPNST-derived cell line and normal human Schwann cells. Neuron Glia Biology, 2004, 1, 135-147. | 2.0 | 35 |
| 106 | Sequential Enhancer Sequestration Dysregulates Recombination Center Formation at the IgH Locus. Molecular Cell, 2018, 70, 21-33.e6. | 4.5 | 35 |
| 107 | Enhanced Upregulation of CRH mRNA Expression in the Nucleus Accumbens of Male Rats after a Second Injection of Methamphetamine Given Thirty Days Later. PLoS ONE, 2014, 9, e84665. | 1.1 | 35 |
| 108 | Novel RNA- and FMRP-binding protein TRF2-S regulates axonal mRNA transport and presynaptic plasticity. Nature Communications, 2015, 6, 8888. | 5.8 | 34 |

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|---|---|---|---|
| 109 | Gonadal Transcriptome Alterations in Response to Dietary Energy Intake: Sensing the Reproductive Environment. PLoS ONE, 2009, 4, e4146. | 1.1 | 33 |
| 110 | Molecular changes in brain aging and Alzheimer's disease are mirrored in experimentally silenced cortical neuron networks. Neurobiology of Aging, 2012, 33, 205.e1-205.e18. | 1.5 | 33 |
| 111 | Possible angiogenic roles for claudin-4 in ovarian cancer. Cancer Biology and Therapy, 2009, 8, 1806-1814. | 1.5 | 32 |
| 112 | IL-10 transcription is negatively regulated by BAF180, a component of the SWI/SNF chromatin remodeling enzyme. BMC Immunology, 2012, 13, 9. | 0.9 | 32 |
| 113 | DNA methylation signatures reveal that distinct combinations of transcription factors specify human immune cell epigenetic identity. Immunity, 2021, 54, 2465-2480.e5. | 6.6 | 31 |
| 114 | Differential gene expression patterns in cyclooxygenase-1 and cyclooxygenase-2 deficient mouse brain. Genome Biology, 2007, 8, R14. | 13.9 | 30 |
| 115 | Euglycemic Agent-mediated Hypothalamic Transcriptomic Manipulation in the N171â€“82Q Model of Huntington Disease Is Related to Their Physiological Efficacy*. Journal of Biological Chemistry, 2012, 287, 31766-31782. | 1.6 | 30 |
| 116 | AF5, a CNS Cell Line Immortalized with an N-Terminal Fragment of SV40 Large T: Growth, Differentiation, Genetic Stability, and Gene Expression. Experimental Neurology, 2002, 175, 318-337. | 2.0 | 29 |
| 117 | Transcriptome analysis of age-, gender- and diet-associated changes in murine thymus. Cellular Immunology, 2007, 245, 42-61. | 1.4 | 29 |
| 118 | Divergence of transcriptional landscape occurs early in B cell activation. Epigenetics and Chromatin, 2015, 8, 20. | 1.8 | 28 |
| 119 | Mild traumatic brain injury-induced hippocampal gene expressions: The identification of target cellular processes for drug development. Journal of Neuroscience Methods, 2016, 272, 4-18. | 1.3 | 28 |
| 120 | Profile of changes in gene expression in cultured hippocampal neurones evoked by the GABAB receptor agonist baclofen. Physiological Genomics, 2005, 22, 93-98. | 1.0 | 27 |
| 121 | MyD88 Expression by CNS-Resident Cells is Pivotal for Eliciting Protective Immunity in Brain Abscesses. ASN Neuro, 2009, 1, AN20090004. | 1.5 | 27 |
| 122 | Topoisomerase 3Î² interacts with RNAi machinery to promote heterochromatin formation and transcriptional silencing in Drosophila. Nature Communications, 2018, 9, 4946. | 5.8 | 27 |
| 123 | Extracellular <scp>RNA</scp> profiles with human age. Aging Cell, 2018, 17, e12785. | 3.0 | 27 |
| 124 | Neonatal dopamine depletion induces changes in morphogenesis and gene expression in the developing cortex. Neurotoxicity Research, 2007, 11, 107-130. | 1.3 | 26 |
| 125 | Paradoxical microRNAs. Cell Cycle, 2011, 10, 751-759. | 1.3 | 26 |
| 126 | miR-570 interacts with mitochondrial ATPase subunit g (ATP5L) encoding mRNA in stored platelets. Platelets, 2017, 28, 74-81. | 1.1 | 26 |

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|---|---|---|---|
| 127 | Muscle cannabinoid 1 receptor regulates Ilâ€6 and myostatin expression, governing physical performance and wholeâ€body metabolism. FASEB Journal, 2019, 33, 5850-5863. | 0.2 | 26 |
| 128 | Age-associated alterations in inducible gene transcription in human CD4+ T lymphocytes. Aging, 2013, 5, 18-36. | 1.4 | 26 |
| 129 | Methamphetamine-Induced Dopamine-Independent Alterations in Striatal Gene Expression in the 6-Hydroxydopamine Hemiparkinsonian Rats. PLoS ONE, 2010, 5, e15643. | 1.1 | 25 |
| 130 | Methamphetamine Preconditioning Causes Differential Changes in Striatal Transcriptional Responses to Large Doses of the Drug. Dose-Response, 2011, 9, dose-response.1. | 0.7 | 25 |
| 131 | GIT2 Acts as a Systems-Level Coordinator of Neurometabolic Activity and Pathophysiological Aging. Frontiers in Endocrinology, 2015, 6, 191. | 1.5 | 25 |
| 132 | A rapid method for microarray cross platform comparisons using gene expression signatures. Molecular and Cellular Probes, 2007, 21, 35-46. | 0.9 | 24 |
| 133 | Gene Expression Profiling Reveals Distinct Cocaine-Responsive Genes in Human Fetal CNS Cell Types. Journal of Addiction Medicine, 2009, 3, 218-226. | 1.4 | 24 |
| 134 | Multiple Oxygen Tension Environments Reveal Diverse Patterns of Transcriptional Regulation in Primary Astrocytes. PLoS ONE, 2011, 6, e21638. | 1.1 | 24 |
| 135 | Human Umbilical Cord Matrix Mesenchymal Stem Cells Suppress the Growth of Breast Cancer by Expression of Tumor Suppressor Genes. PLoS ONE, 2015, 10, e0123756. | 1.1 | 22 |
| 136 | Topoisomerase 3Î² knockout mice show transcriptional and behavioural impairments associated with neurogenesis and synaptic plasticity. Nature Communications, 2020, 11, 3143. | 5.8 | 22 |
| 137 | Co-Regulation of the DAF-16 Target Gene, cyp-35B1/dod-13, by HSF-1 in C. elegans Dauer Larvae and daf-2 Insulin Pathway Mutants. PLoS ONE, 2011, 6, e17369. | 1.1 | 21 |
| 138 | Cortical gene transcription response patterns to water maze training in aged mice. BMC Neuroscience, 2011, 12, 63. | 0.8 | 21 |
| 139 | Tollâ€like receptor 2 (TLR2)â€TLR9 crosstalk dictates ILâ€12 family cytokine production in microglia. Glia, 2012, 60, 29-42. | 2.5 | 21 |
| 140 | RPTOR, a novel target of miR-155, elicits a fibrotic phenotype of cystic fibrosis lung epithelium by upregulating CTGF. RNA Biology, 2016, 13, 837-847. | 1.5 | 21 |
| 141 | Conserved and species-specific molecular denominators in mammalian skeletal muscle aging. Npj Aging and Mechanisms of Disease, 2017, 3, 8. | 4.5 | 21 |
| 142 | MicroRNAs Modulate Oxidative Stress in Hypertension through PARP-1 Regulation. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-12. | 1.9 | 21 |
| 143 | Tumor-Derived Thymic Stromal Lymphopoietin Expands Bone Marrow B-cell Precursors in Circulation to Support Metastasis. Cancer Research, 2019, 79, 5826-5838. | 0.4 | 21 |
| 144 | Microarray screening of suppression subtractive hybridization-PCR cDNA libraries identifies novel RNAs regulated by dehydration in the rat supraoptic nucleus. Physiological Genomics, 2006, 24, 163-172. | 1.0 | 20 |

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|---|---|---|---|
| 145 | Molecular analysis of bovine spongiform encephalopathy infection by cDNA arrays. Journal of General Virology, 2007, 88, 1356-1362. | 1.3 | 20 |
| 146 | Significant modulation of mitochondrial electron transport system by nicotine in various rat brain regions. Mitochondrion, 2009, 9, 186-195. | 1.6 | 20 |
| 147 | Distinct inhibitory effects on mTOR signaling by ethanol and INK128 in diffuse large B-cell lymphoma. Cell Communication and Signaling, 2015, 13, 15. | 2.7 | 20 |
| 148 | Experience Modulates the Effects of Histone Deacetylase Inhibitors on Gene and Protein Expression in the Hippocampus: Impaired Plasticity in Aging. Journal of Neuroscience, 2015, 35, 11729-11742. | 1.7 | 20 |
| 149 | Altered learning, memory, and social behavior in type 1 taste receptor subunit 3 knock-out mice are associated with neuronal dysfunction. Journal of Biological Chemistry, 2017, 292, 11508-11530. | 1.6 | 20 |
| 150 | NaÃ¯ve rat umbilical cord matrix stem cells significantly attenuate mammary tumor growth through modulation of endogenous immune responses. Cytotherapy, 2013, 15, 586-597. | 0.3 | 18 |
| 151 | Amitriptyline Improves Motor Function via Enhanced Neurotrophin Signaling and Mitochondrial Functions in the Murine N171-82Q Huntington Disease Model. Journal of Biological Chemistry, 2015, 290, 2728-2743. | 1.6 | 18 |
| 152 | A double blind placebo controlled randomized trial of the effect of acute uric acid changes on inflammatory markers in humans: A pilot study. PLoS ONE, 2017, 12, e0181100. | 1.1 | 18 |
| 153 | Disease and phenotype gene set analysis of disease-based gene expression in mouse and human. Physiological Genomics, 2010, 42A, 162-167. | 1.0 | 17 |
| 154 | Male Gender Bias in Autism and Pediatric Autoimmunity. Autism Research, 2012, 5, 77-83. | 2.1 | 17 |
| 155 | Frailty in middle age is associated with frailty status and race-specific changes to the transcriptome. Aging, 2019, 11, 5518-5534. | 1.4 | 17 |
| 156 | Antigen-Specific Gene Expression Profiles of Peripheral Blood Mononuclear Cells Do Not Reflect Those of T-Lymphocyte Subsets. Vaccine Journal, 2004, 11, 977-982. | 3.2 | 15 |
| 157 | National Institute on Aging Microarray Facility--Resources for Gerontology Research. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 413-415. | 1.7 | 15 |
| 158 | Genomic deletion of GIT2 induces a premature age-related thymic dysfunction and systemic immune system disruption. Aging, 2017, 9, 706-740. | 1.4 | 15 |
| 159 | Metabolic Context Regulates Distinct Hypothalamic Transcriptional Responses to Antiaging Interventions. International Journal of Endocrinology, 2012, 2012, 1-15. | 0.6 | 14 |
| 160 | Methamphetamine-induced gene expression profiles in the striatum of male rat pups exposed to the drug in utero. Developmental Brain Research, 2003, 147, 153-162. | 2.1 | 13 |
| 161 | Altered Gene Expression in Pulmonary Tissue of Tryptophan Hydroxylase-1 Knockout Mice: Implications for Pulmonary Arterial Hypertension. PLoS ONE, 2011, 6, e17735. | 1.1 | 13 |
| 162 | Tumorâ€associated APE1 variant exhibits reduced complementation efficiency but does not promote cancer cell phenotypes. Environmental and Molecular Mutagenesis, 2017, 58, 84-98. | 0.9 | 13 |

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|---|---|---|---|
| 163 | Altered 3D chromatin structure permits inversional recombination at the IgH locus. Science Advances, 2020, 6, eaaz8850. | 4.7 | 13 |
| 164 | Double round hybridization of membrane based cDNA arrays: improved background reduction and data replication. Journal of Neuroscience Methods, 2002, 118, 59-62. | 1.3 | 11 |
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