

Kenneth W Fishbein

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

7,506
citations

159585

30
h-index

53230

85
g-index

95
all docs

95
docs citations

95
times ranked

10630
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Resveratrol improves health and survival of mice on a high-calorie diet. <i>Nature</i> , 2006, 444, 337-342. | 27.8 | 3,882 |
| 2 | Glycogen synthase kinase-3 β mediates convergence of protection signaling to inhibit the mitochondrial permeability transition pore. <i>Journal of Clinical Investigation</i> , 2004, 113, 1535-1549. | 8.2 | 854 |
| 3 | A Spectrometer for Dynamic Nuclear Polarization and Electron Paramagnetic Resonance at High Frequencies. <i>Journal of Magnetic Resonance Series A</i> , 1995, 117, 28-40. | 1.6 | 163 |
| 4 | Multicomponent T ₂ relaxation analysis in cartilage. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 803-809. | 3.0 | 149 |
| 5 | Adenovirus-Mediated VEGF ₁₂₁ Gene Transfer Stimulates Angiogenesis in Normoperfused Skeletal Muscle and Preserves Tissue Perfusion After Induction of Ischemia. <i>Circulation</i> , 2000, 102, 565-571. | 1.6 | 130 |
| 6 | Adiposity induces lethal cytokine storm after systemic administration of stimulatory immunotherapy regimens in aged mice. <i>Journal of Experimental Medicine</i> , 2014, 211, 2373-2383. | 8.5 | 124 |
| 7 | Glycogen synthase kinase-3 β mediates convergence of protection signaling to inhibit the mitochondrial permeability transition pore. <i>Journal of Clinical Investigation</i> , 2004, 113, 1535-1549. | 8.2 | 118 |
| 8 | Muscle strength mediates the relationship between mitochondrial energetics and walking performance. <i>Aging Cell</i> , 2017, 16, 461-468. | 6.7 | 99 |
| 9 | Two-dimensional solid-state proton NMR and proton exchange. <i>Journal of the American Chemical Society</i> , 1993, 115, 6254-6261. | 13.7 | 80 |
| 10 | ³¹ P Magnetic Resonance Spectroscopy Assessment of Muscle Bioenergetics as a Predictor of Gait Speed in the Baltimore Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1638-1645. | 3.6 | 80 |
| 11 | Measurement of Spin Lattice Relaxation Times and Concentrations in Systems with Chemical Exchange Using the One-Pulse Sequence: Breakdown of the Ernst Model for Partial Saturation in Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Magnetic Resonance</i> , 2000, 142, 120-135. | 2.1 | 69 |
| 12 | Matrix fixed-charge density as determined by magnetic resonance microscopy of bioreactor-derived hyaline cartilage correlates with biochemical and biomechanical properties. <i>Arthritis and Rheumatism</i> , 2003, 48, 1047-1056. | 6.7 | 69 |
| 13 | Fourier transform infrared imaging and MR microscopy studies detect compositional and structural changes in cartilage in a rabbit model of osteoarthritis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1601-1612. | 3.7 | 69 |
| 14 | Magnetic Resonance Imaging of Chondrocytes Labeled with Superparamagnetic Iron Oxide Nanoparticles in Tissue-Engineered Cartilage. <i>Tissue Engineering - Part A</i> , 2009, 15, 3899-3910. | 3.1 | 67 |
| 15 | Effects of formalin fixation and collagen cross-linking on T ₂ and magnetization transfer in bovine nasal cartilage. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 1000-1011. | 3.0 | 65 |
| 16 | Cytochrome b5 reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, 16006. | 4.5 | 57 |
| 17 | Cartilage formation in a hollow fiber bioreactor studied by proton magnetic resonance microscopy. <i>Matrix Biology</i> , 1998, 17, 513-523. | 3.6 | 53 |
| 18 | Insulin Resistance Is Associated With Reduced Mitochondrial Oxidative Capacity Measured by ³¹ P-Magnetic Resonance Spectroscopy in Participants Without Diabetes From the Baltimore Longitudinal Study of Aging. <i>Diabetes</i> , 2017, 66, 170-176. | 0.6 | 48 |

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|----|---|------|-----------|
| 19 | A cross-sectional study of functional and metabolic changes during aging through the lifespan in male mice. <i>ELife</i> , 2021, 10, . | 6.0 | 47 |
| 20 | Disulfiram Treatment Normalizes Body Weight in Obese Mice. <i>Cell Metabolism</i> , 2020, 32, 203-214.e4. | 16.2 | 46 |
| 21 | Combination therapy with lenalidomide and nanoceria ameliorates CNS autoimmunity. <i>Experimental Neurology</i> , 2015, 273, 151-160. | 4.1 | 43 |
| 22 | An analysis of the integration between articular cartilage and nondegradable hydrogel using magnetic resonance imaging. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 77B, 144-148. | 3.4 | 40 |
| 23 | Analysis of mcDESPOT and CPMG derived parameter estimates for two component nonexchanging systems. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2406-2420. | 3.0 | 40 |
| 24 | Pulsed dynamic nuclear polarization at 5 T. <i>Chemical Physics Letters</i> , 1992, 189, 54-59. | 2.6 | 37 |
| 25 | Automated quantification of muscle and fat in the thigh from water, fat, and nonsuppressed MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1152-1161. | 3.4 | 37 |
| 26 | Incorporation of rician noise in the analysis of biexponential transverse relaxation in cartilage using a multiple gradient echo sequence at 3 and 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 352-366. | 3.0 | 37 |
| 27 | Chemogenetic stimulation of the hypoglossal neurons improves upper airway patency. <i>Scientific Reports</i> , 2017, 7, 44392. | 3.3 | 35 |
| 28 | Low plasma lysophosphatidylcholines are associated with impaired mitochondrial oxidative capacity in adults in the Baltimore Longitudinal Study of Aging. <i>Aging Cell</i> , 2019, 18, e12915. | 6.7 | 34 |
| 29 | Analysis of Mitochondrial 3D-Deformation in Cardiomyocytes during Active Contraction Reveals Passive Structural Anisotropy of Orthogonal Short Axes. <i>PLoS ONE</i> , 2011, 6, e21985. | 2.5 | 34 |
| 30 | Stabilization of the inverse Laplace transform of multiexponential decay through introduction of a second dimension. <i>Journal of Magnetic Resonance</i> , 2013, 236, 134-139. | 2.1 | 33 |
| 31 | Overexpression of <i>CYB5R3</i> and <i>NQO1</i> , two <i>NAD</i> -producing enzymes, mimics aspects of caloric restriction. <i>Aging Cell</i> , 2018, 17, e12767. | 6.7 | 32 |
| 32 | Muscle mitochondrial energetics predicts mobility decline in well-functioning older adults: The baltimore longitudinal study of aging. <i>Aging Cell</i> , 2022, 21, e13552. | 6.7 | 32 |
| 33 | Multivariate analysis of cartilage degradation using the support vector machine algorithm. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1815-1826. | 3.0 | 31 |
| 34 | The Role of Muscle Perfusion in the Age-Associated Decline of Mitochondrial Function in Healthy Individuals. <i>Frontiers in Physiology</i> , 2019, 10, 427. | 2.8 | 31 |
| 35 | A central nervous system specific mouse model for thanatophoric dysplasia type II. <i>Human Molecular Genetics</i> , 2003, 12, 2863-2871. | 2.9 | 30 |
| 36 | Cryopreservation of porcine articular cartilage: MRI and biochemical results after different freezing protocols. <i>Cryobiology</i> , 2007, 54, 36-43. | 0.7 | 28 |

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|----|---|------|-----------|
| 37 | Moderate to Vigorous Physical Activity Is Associated With Higher Muscle Oxidative Capacity in Older Adults. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 1695-1699. | 2.6 | 27 |
| 38 | The lever-coil: a simple, inexpensive sensor for respiratory and cardiac motion in MRI experiments. <i>Magnetic Resonance Imaging</i> , 2001, 19, 881-889. | 1.8 | 26 |
| 39 | Optimal methods for the preservation of cartilage samples in MRI and correlative biochemical studies. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 866-873. | 3.0 | 25 |
| 40 | Noninvasive Assessment of Glycosaminoglycan Production in Injectable Tissue-Engineered Cartilage Constructs Using Magnetic Resonance Imaging. <i>Tissue Engineering - Part C: Methods</i> , 2008, 14, 243-249. | 2.1 | 25 |
| 41 | XRCC1 haploinsufficiency in mice has little effect on aging, but adversely modifies exposure-dependent susceptibility. <i>Nucleic Acids Research</i> , 2011, 39, 7992-8004. | 14.5 | 25 |
| 42 | Designer Receptors Exclusively Activated by Designer Drugs Approach to Treatment of Sleep-disordered Breathing. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 102-110. | 5.6 | 25 |
| 43 | ATP Synthase K ⁺ and H ⁺ -Fluxes Drive ATP Synthesis and Enable Mitochondrial K ⁺ -uniporter function: I. Characterization of Ion Fluxes. <i>Function</i> , 2022, 3, zqab065. | 2.3 | 25 |
| 44 | Metabolic abnormalities and hypoleptinemia in Î±-synuclein A53T mutant mice. <i>Neurobiology of Aging</i> , 2014, 35, 1153-1161. | 3.1 | 23 |
| 45 | Lower Mitochondrial Energy Production of the Thigh Muscles in Patients With Low Normal Ankle-Brachial Index. <i>Journal of the American Heart Association</i> , 2017, 6, . | 3.7 | 23 |
| 46 | Poor mitochondrial health and systemic inflammation? Test of a classic hypothesis in the Baltimore Longitudinal Study of Aging. <i>GeroScience</i> , 2020, 42, 1175-1182. | 4.6 | 23 |
| 47 | Ex vivo magnetic resonance microscopy of an osteochondral transfer. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 603-608. | 3.4 | 22 |
| 48 | Aortic Fibrosis, Induced by High Salt Intake in the Absence of Hypertensive Response, Is Reduced by a Monoclonal Antibody to Marinobufagenin. <i>American Journal of Hypertension</i> , 2016, 29, 641-646. | 2.0 | 22 |
| 49 | Topoisomerase 3Î² knockout mice show transcriptional and behavioural impairments associated with neurogenesis and synaptic plasticity. <i>Nature Communications</i> , 2020, 11, 3143. | 12.8 | 22 |
| 50 | Assessment of tissue repair in full thickness chondral defects in the rabbit using magnetic resonance imaging transverse relaxation measurements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 86B, 375-380. | 3.4 | 21 |
| 51 | ATP synthase K ⁺ and H ⁺ -fluxes drive ATP synthesis and enable mitochondrial K ⁺ -uniporter function: II. Ion and ATP synthase flux regulation. <i>Function</i> , 2022, 3, zqac001. | 2.3 | 20 |
| 52 | Bioreactor and probe system for magnetic resonance microimaging and spectroscopy of chondrocytes and neocartilage. <i>International Journal of Imaging Systems and Technology</i> , 1997, 8, 285-292. | 4.1 | 19 |
| 53 | 31P NMR spectroscopy of developing cartilage produced from chick chondrocytes in a hollow-fiber bioreactor. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 367-372. | 3.0 | 18 |
| 54 | Characterization of Ex Vivo Generated Bovine and Human Cartilage by Immunohistochemical, Biochemical, and Magnetic Resonance Imaging Analyses. <i>Tissue Engineering - Part A</i> , 2010, 16, 2183-2196. | 3.1 | 18 |

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|----|---|-----|-----------|
| 55 | Activatable interpolymer complex-superparamagnetic iron oxide nanoparticles as magnetic resonance contrast agents sensitive to oxidative stress. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 578-588. | 5.0 | 18 |
| 56 | Greater Skeletal Muscle Oxidative Capacity Is Associated With Higher Resting Metabolic Rate: Results From the Baltimore Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 2262-2268. | 3.6 | 18 |
| 57 | Diffusion-weighted MRI with intravoxel incoherent motion modeling for assessment of muscle perfusion in the thigh during post-exercise hyperemia in younger and older adults. <i>NMR in Biomedicine</i> , 2019, 32, e4072. | 2.8 | 17 |
| 58 | Characterization of Engineered Cartilage Constructs Using Multiexponential T_2 Relaxation Analysis and Support Vector Regression. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 433-443. | 2.1 | 15 |
| 59 | The effect of noise and lipid signals on determination of Gaussian and non-Gaussian diffusion parameters in skeletal muscle. <i>NMR in Biomedicine</i> , 2017, 30, e3718. | 2.8 | 15 |
| 60 | Compatibility of Gd-DTPA perfusion and histologic studies of the brain. <i>Magnetic Resonance Imaging</i> , 2006, 24, 27-31. | 1.8 | 14 |
| 61 | Age and Muscle Function Are More Closely Associated With Intracellular Magnesium, as Assessed by ^{31}P Magnetic Resonance Spectroscopy, Than With Serum Magnesium. <i>Frontiers in Physiology</i> , 2019, 10, 1454. | 2.8 | 14 |
| 62 | Rotational resonance with multiple-pulse scaling in solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1994, 100, 5533-5545. | 3.0 | 13 |
| 63 | Classification of histologically scored human knee osteochondral plugs by quantitative analysis of magnetic resonance images at 3T. <i>Journal of Orthopaedic Research</i> , 2015, 33, 640-650. | 2.3 | 13 |
| 64 | Proteomic signatures of in vivo muscle oxidative capacity in healthy adults. <i>Aging Cell</i> , 2020, 19, e13124. | 6.7 | 13 |
| 65 | Pitfalls in the Measurement of Metabolite Concentrations Using the One-Pulse Experiment in in Vivo NMR: Commentary on "On Neglecting Chemical Exchange Effects When Correcting in Vivo ^{31}P MRS Data for Partial Saturation". <i>Journal of Magnetic Resonance</i> , 2001, 149, 251-257. | 2.1 | 12 |
| 66 | A Novel Extension to Fuzzy Connectivity for Body Composition Analysis: Applications in Thigh, Brain, and Whole Body Tissue Segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1069-1081. | 4.2 | 12 |
| 67 | Characterization of skin abnormalities in a mouse model of osteogenesis imperfecta using high resolution magnetic resonance imaging and Fourier transform infrared imaging spectroscopy. <i>NMR in Biomedicine</i> , 2012, 25, 169-176. | 2.8 | 11 |
| 68 | Differences in the Bioenergetic Response of the Isolated Perfused Rat Heart to Selective β_1 - and β_2 -Adrenergic Receptor Stimulation. <i>Circulation</i> , 2003, 107, 2146-2152. | 1.6 | 10 |
| 69 | Cardiovascular Health and Mitochondrial Function: Testing an Association. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 361-367. | 3.6 | 10 |
| 70 | Sensitivity and specificity of univariate MRI analysis of experimentally degraded cartilage under clinical imaging conditions. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 136-144. | 3.4 | 8 |
| 71 | Mitochondrial DNA copy number and heteroplasmy load correlate with skeletal muscle oxidative capacity by ^{31}P MR spectroscopy. <i>Aging Cell</i> , 2021, 20, e13487. | 6.7 | 8 |
| 72 | Compatibility of superparamagnetic iron oxide nanoparticle labeling for ^1H MRI cell tracking with ^{31}P MRS for bioenergetic measurements. <i>NMR in Biomedicine</i> , 2010, 23, 1166-1172. | 2.8 | 7 |

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|----|---|-----|-----------|
| 73 | Screening of ligands for redox-active europium using magnetic resonance imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5274-5279. | 3.0 | 7 |
| 74 | Image-based Tissue Distribution Modeling for Skeletal Muscle Quality Characterization. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 63, 1-1. | 4.2 | 6 |
| 75 | Stabilization of parameter estimates from multiexponential decay through extension into higher dimensions. <i>Scientific Reports</i> , 2022, 12, 5773. | 3.3 | 5 |
| 76 | Multiparametric Classification of Skin from Osteogenesis Imperfecta Patients and Controls by Quantitative Magnetic Resonance Microimaging. <i>PLoS ONE</i> , 2016, 11, e0157891. | 2.5 | 4 |
| 77 | Measurement of fat fraction in the human thymus by localized NMR and three-point Dixon MRI techniques. <i>Magnetic Resonance Imaging</i> , 2018, 50, 110-118. | 1.8 | 4 |
| 78 | Tendon and neurovascular bundle displacement in the palm with hand flexion and extension: An MRI and gross anatomy correlative study. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 742-746. | 3.4 | 3 |
| 79 | Effects of knee injection on skeletal muscle metabolism and contractile force in rats. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 550-558. | 1.3 | 3 |
| 80 | Stabilization of T ₂ relaxation and magnetization transfer in cartilage explants by immersion in perfluorocarbon liquid. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3209-3217. | 3.0 | 3 |
| 81 | Contribution of Intramyocellular Lipids to Decreased Computed Tomography Muscle Density With Age. <i>Frontiers in Physiology</i> , 2021, 12, 632642. | 2.8 | 3 |
| 82 | Cardiac phenotype induced by a dysfunctional $\text{I}^{\pm 1C}$ transgene. <i>Channels</i> , 2011, 5, 138-147. | 2.8 | 2 |
| 83 | Ankle-Brachial Index and Energy Production in People Without Peripheral Artery Disease: The BLSA. <i>Journal of the American Heart Association</i> , 2022, 11, e019014. | 3.7 | 2 |
| 84 | Association of central arterial stiffness with hippocampal blood flow and N-acetyl aspartate concentration in hypertensive adult Dahl salt sensitive rats. <i>Journal of Hypertension</i> , 2021, 39, 2113-2121. | 0.5 | 1 |
| 85 | Adiposity As a Principal Component of Lethal Cytokine Storm Following Cancer Immunotherapy in Aged Mice. <i>Blood</i> , 2014, 124, 460-460. | 1.4 | 1 |
| 86 | Automated Quantification of Muscle and Fat in the Thigh from Water-, Fat- and Non-suppressed MR Images. , 2010, , . | | 0 |
| 87 | Between a Rock and a Hard Place: Mitochondria Deform Anisotropically in Intact Cardiomyocytes During Active Contraction. <i>Biophysical Journal</i> , 2011, 100, 288a. | 0.5 | 0 |
| 88 | Towards segmentation of the thymus in fat and water parametric MR images. , 2011, 2011, 8078-81. | | 0 |
| 89 | Development of cardiomyopathy in response to chronic β -adrenergic stimulation of transgenic mouse overexpressing the exon ²² isoform of the human Ca _v 1.2 channel $\text{I}^{\pm 1C}$ subunit as revealed by magnetic resonance imaging. <i>FASEB Journal</i> , 2007, 21, A583. | 0.5 | 0 |
| 90 | Effects of Lisinopril on Arterial Stiffness, Cerebral Blood Flow and Cortical Thickness in Hypertensive Dahl ^S Rats. <i>FASEB Journal</i> , 2020, 34, 1-1. | 0.5 | 0 |

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|----|---|-----|-----------|
| 91 | Effects of Lisinopril on Arterial Stiffness, Cerebral Blood Flow, Neuronal Viability and Cortical Thickness in Late-Life Hypertension in Dahl Rats. FASEB Journal, 2020, 34, 1-1. | 0.5 | 0 |
| 92 | Targeted Retrograde Chemogenetic Approach to Treat Sleep Apnea. FASEB Journal, 2020, 34, 1-1. | 0.5 | 0 |