

John W Scott

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

6,124
citations

101496

36
h-index

71651

76
g-index

90
all docs

90
docs citations

90
times ranked

7672
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Management of cellular energy by the AMP-activated protein kinase system. FEBS Letters, 2003, 546, 113-120. | 1.3 | 721 |
| 2 | AMP-activated protein kinase - development of the energy sensor concept. Journal of Physiology, 2006, 574, 7-15. | 1.3 | 681 |
| 3 | CBS domains form energy-sensing modules whose binding of adenosine ligands is disrupted by disease mutations. Journal of Clinical Investigation, 2004, 113, 274-284. | 3.9 | 622 |
| 4 | AMPK Is a Direct Adenylate Charge-Regulated Protein Kinase. Science, 2011, 332, 1433-1435. | 6.0 | 499 |
| 5 | $\hat{1}^2$ -Subunit myristoylation is the gatekeeper for initiating metabolic stress sensing by AMP-activated protein kinase (AMPK). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19237-19241. | 3.3 | 267 |
| 6 | Thienopyridone Drugs Are Selective Activators of AMP-Activated Protein Kinase $\hat{1}^2$ -Containing Complexes. Chemistry and Biology, 2008, 15, 1220-1230. | 6.2 | 221 |
| 7 | AMPK functions as an adenylate charge-regulated protein kinase. Trends in Endocrinology and Metabolism, 2012, 23, 125-132. | 3.1 | 167 |
| 8 | Protein kinase substrate recognition studied using the recombinant catalytic domain of AMP-activated protein kinase and a model substrate. Journal of Molecular Biology, 2002, 317, 309-323. | 2.0 | 156 |
| 9 | Whole Body Deletion of AMP-activated Protein Kinase $\hat{1}^2$ Reduces Muscle AMPK Activity and Exercise Capacity. Journal of Biological Chemistry, 2010, 285, 37198-37209. | 1.6 | 145 |
| 10 | Fatal Congenital Heart Glycogenosis Caused by a Recurrent Activating R531Q Mutation in the $\hat{1}^2$ -Subunit of AMP-Activated Protein Kinase (PRKAG2), Not by Phosphorylase Kinase Deficiency. American Journal of Human Genetics, 2005, 76, 1034-1049. | 2.6 | 137 |
| 11 | Small Molecule Drug A-769662 and AMP Synergistically Activate Naïve AMPK Independent of Upstream Kinase Signaling. Chemistry and Biology, 2014, 21, 619-627. | 6.2 | 137 |
| 12 | Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. Biochemical Journal, 2015, 468, 125-132. | 1.7 | 132 |
| 13 | Analysis of the LKB1-STRAD-MO25 complex. Journal of Cell Science, 2004, 117, 6365-6375. | 1.2 | 130 |
| 14 | SnRK1 from <i>Arabidopsis thaliana</i> is an atypical $\hat{1}$ -AMPK. Plant Journal, 2015, 82, 183-192. | 2.8 | 115 |
| 15 | AMP-activated protein kinase selectively inhibited by the type II inhibitor SBI-0206965. Journal of Biological Chemistry, 2018, 293, 8874-8885. | 1.6 | 98 |
| 16 | mTORC1 directly inhibits AMPK to promote cell proliferation under nutrient stress. Nature Metabolism, 2020, 2, 41-49. | 5.1 | 97 |
| 17 | Long-chain fatty acyl-CoA esters regulate metabolism via allosteric control of AMPK $\hat{1}^1$ isoforms. Nature Metabolism, 2020, 2, 873-881. | 5.1 | 76 |
| 18 | Structure and function of AMP-activated protein kinase. Acta Physiologica, 2009, 196, 3-14. | 1.8 | 70 |

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|----|--|-----|-----------|
| 19 | Structural basis of allosteric and synergistic activation of AMPK by furan-2-phosphonic derivative C2 binding. <i>Nature Communications</i> , 2016, 7, 10912. | 5.8 | 69 |
| 20 | The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. <i>Nature Communications</i> , 2017, 8, 571. | 5.8 | 65 |
| 21 | Ca ²⁺ /Calmodulin-dependent Protein Kinase Kinase $\hat{1}^2$ Is Regulated by Multisite Phosphorylation. <i>Journal of Biological Chemistry</i> , 2011, 286, 28066-28079. | 1.6 | 62 |
| 22 | Mitochondrial fission protein Drp1 inhibition promotes cardiac mesodermal differentiation of human pluripotent stem cells. <i>Cell Death Discovery</i> , 2018, 4, 39. | 2.0 | 61 |
| 23 | Phenformin and 5-aminoimidazole-4-carboxamide-1- $\hat{1}^2$ -D-ribofuranoside (AICAR) activation of AMP-activated protein kinase inhibits transepithelial Na ⁺ transport across H441 lung cells. <i>Journal of Physiology</i> , 2005, 566, 781-792. | 1.3 | 60 |
| 24 | AMPK Structure and Regulation from Three Angles. <i>Structure</i> , 2007, 15, 1161-1163. | 1.6 | 59 |
| 25 | Fatal Infantile Cardiac Glycogenosis with Phosphorylase Kinase Deficiency and a Mutation in the $\hat{1}^3$ -Subunit of AMP-Activated Protein Kinase. <i>Pediatric Research</i> , 2007, 62, 499-504. | 1.1 | 57 |
| 26 | Inhibition of Adenosine Monophosphate-Activated Protein Kinase-3-Hydroxy- $\hat{3}$ -Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. <i>Hepatology Communications</i> , 2019, 3, 84-98. | 2.0 | 56 |
| 27 | Inhibition of ATP-citrate lyase improves NASH, liver fibrosis, and dyslipidemia. <i>Cell Metabolism</i> , 2022, 34, 919-936.e8. | 7.2 | 55 |
| 28 | Rethinking Priorities. <i>Annals of Surgery</i> , 2016, 264, 312-322. | 2.1 | 54 |
| 29 | Germline deletion of AMP-activated protein kinase $\hat{1}^2$ subunits reduces bone mass without altering osteoclast differentiation or function. <i>FASEB Journal</i> , 2010, 24, 275-285. | 0.2 | 52 |
| 30 | Inhibition of AMP-Activated Protein Kinase at the Allosteric Drug-Binding Site Promotes Islet Insulin Release. <i>Chemistry and Biology</i> , 2015, 22, 705-711. | 6.2 | 50 |
| 31 | Mutant TDP-43 Deregulates AMPK Activation by PP2A in ALS Models. <i>PLoS ONE</i> , 2014, 9, e90449. | 1.1 | 46 |
| 32 | Regulation of AMP-activated protein kinase by a pseudosubstrate sequence on the $\hat{1}^3$ subunit. <i>EMBO Journal</i> , 2007, 26, 806-815. | 3.5 | 43 |
| 33 | Pharmacological activators of AMP-activated protein kinase have different effects on Na ⁺ transport processes across human lung epithelial cells. <i>British Journal of Pharmacology</i> , 2007, 151, 1204-1215. | 2.7 | 42 |
| 34 | Emergency Major Abdominal Surgical Procedures in Older Adults: A Systematic Review of Mortality and Functional Outcomes. <i>Journal of the American Geriatrics Society</i> , 2015, 63, 2563-2571. | 1.3 | 41 |
| 35 | New perspectives on the role of Drp1 isoforms in regulating mitochondrial pathophysiology. , 2020, 213, 107594. | | 41 |
| 36 | Structural Determinants for Small-Molecule Activation of Skeletal Muscle AMPK $\hat{1}^2$ $\hat{1}^3$ by the Glucose Importagog SC4. <i>Cell Chemical Biology</i> , 2018, 25, 728-737.e9. | 2.5 | 40 |

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|----|--|-----|-----------|
| 37 | Global surgical, obstetric, and anesthetic task shifting: A systematic literature review. <i>Surgery</i> , 2018, 164, 553-558. | 1.0 | 37 |
| 38 | Dependent Coverage Provision Led To Uneven Insurance Gains And Unchanged Mortality Rates In Young Adult Trauma Patients. <i>Health Affairs</i> , 2015, 34, 125-133. | 2.5 | 36 |
| 39 | Molecular Mechanisms Underlying the Beneficial Effects of Exercise on Brain Function and Neurological Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4052. | 1.8 | 35 |
| 40 | Racial and Regional Disparities in the Effect of the Affordable Care Act's Dependent Coverage Provision on Young Adult Trauma Patients. <i>Journal of the American College of Surgeons</i> , 2015, 221, 495-501e1. | 0.2 | 34 |
| 41 | Autophosphorylation of CaMKK2 generates autonomous activity that is disrupted by a T85S mutation linked to anxiety and bipolar disorder. <i>Scientific Reports</i> , 2015, 5, 14436. | 1.6 | 28 |
| 42 | The independent effect of emergency general surgery on outcomes varies depending on case type: A NSQIP outcomes study. <i>American Journal of Surgery</i> , 2018, 216, 856-862. | 0.9 | 27 |
| 43 | Training Surgical Residents for a Career in Academic Global Surgery: A Novel Training Model. <i>Journal of Surgical Education</i> , 2015, 72, e104-e110. | 1.2 | 26 |
| 44 | Investigation of the specificity and mechanism of action of the ULK1/AMPK inhibitor SBI-0206965. <i>Biochemical Journal</i> , 2021, 478, 2977-2997. | 1.7 | 26 |
| 45 | Three-Region Perfusion Strategy for Aortic Arch Reconstruction in the Norwood. <i>Annals of Thoracic Surgery</i> , 2011, 92, 1138-1140. | 0.7 | 25 |
| 46 | Rwanda's Model Prehospital Emergency Care Service: A Two-year Review of Patient Demographics and Injury Patterns in Kigali. <i>Prehospital and Disaster Medicine</i> , 2016, 31, 614-620. | 0.7 | 24 |
| 47 | CaMKK2 is inactivated by cAMP-PKA signaling and 14-3-3 adaptor proteins. <i>Journal of Biological Chemistry</i> , 2020, 295, 16239-16250. | 1.6 | 24 |
| 48 | 1,2,6-Thiadiazinones as Novel Narrow Spectrum Calcium/Calmodulin-Dependent Protein Kinase 2 (CaMKK2) Inhibitors. <i>Molecules</i> , 2018, 23, 1221. | 1.7 | 23 |
| 49 | Genetic loss of AMPK-glycogen binding destabilises AMPK and disrupts metabolism. <i>Molecular Metabolism</i> , 2020, 41, 101048. | 3.0 | 22 |
| 50 | Hinge Binder Scaffold Hopping Identifies Potent Calcium/Calmodulin-Dependent Protein Kinase Kinase 2 (CAMKK2) Inhibitor Chemotypes. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 10849-10877. | 2.9 | 22 |
| 51 | In Depth Analysis of Kinase Cross Screening Data to Identify CAMKK2 Inhibitory Scaffolds. <i>Molecules</i> , 2020, 25, 325. | 1.7 | 22 |
| 52 | AMP-activated protein kinase complexes containing the β 2 regulatory subunit are up-regulated during and contribute to adipogenesis. <i>Biochemical Journal</i> , 2019, 476, 1725-1740. | 1.7 | 20 |
| 53 | Allosteric regulation of AMP-activated protein kinase by adenylate nucleotides and small-molecule drugs. <i>Biochemical Society Transactions</i> , 2019, 47, 733-741. | 1.6 | 19 |
| 54 | AMPK/SNF1 structure: a menage a trois of energy-sensing. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 596. | 3.0 | 18 |

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|----|--|-----|-----------|
| 55 | Post-Translational Modifications of the Energy Guardian AMP-Activated Protein Kinase. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1229. | 1.8 | 18 |
| 56 | Choosing Wisely for Syncope: Low-Value Carotid Ultrasound Use. <i>Journal of the American Heart Association</i> , 2014, 3, . | 1.6 | 17 |
| 57 | Surgeon-driven variability in emergency general surgery outcomes: Does it matter who is on call?. <i>Surgery</i> , 2018, 164, 1109-1116. | 1.0 | 16 |
| 58 | Impact of Genetic Variation on Human CaMKK2 Regulation by Ca ²⁺ -Calmodulin and Multisite Phosphorylation. <i>Scientific Reports</i> , 2017, 7, 43264. | 1.6 | 15 |
| 59 | The sweet side of AMPK signaling: regulation of GFAT1. <i>Biochemical Journal</i> , 2017, 474, 1289-1292. | 1.7 | 15 |
| 60 | Compound- and fiber type-selective requirement of AMPK β 3 for insulin-independent glucose uptake in skeletal muscle. <i>Molecular Metabolism</i> , 2021, 51, 101228. | 3.0 | 14 |
| 61 | β -subunit myristoylation functions as an energy sensor by modulating the dynamics of AMP-activated Protein Kinase. <i>Scientific Reports</i> , 2016, 6, 39417. | 1.6 | 13 |
| 62 | The Affordable Care Act at 10 Years: Evaluating the Evidence and Navigating an Uncertain Future. <i>Journal of Surgical Research</i> , 2021, 263, 102-109. | 0.8 | 11 |
| 63 | Designing and implementing a practical prehospital emergency trauma care curriculum for lay first responders in Guatemala. <i>Trauma Surgery and Acute Care Open</i> , 2020, 5, e000409. | 0.8 | 10 |
| 64 | Regulation of Pancreatic β -Cell Function by the NPY System. <i>Endocrinology</i> , 2021, 162, . | 1.4 | 10 |
| 65 | Protein kinase A negatively regulates VEGF-induced AMPK activation by phosphorylating CaMKK2 at serine 495. <i>Biochemical Journal</i> , 2020, 477, 3453-3469. | 1.7 | 10 |
| 66 | Neuropeptide Y1 receptor antagonism protects β -cells and improves glycemic control in type 2 diabetes. <i>Molecular Metabolism</i> , 2022, 55, 101413. | 3.0 | 10 |
| 67 | Functional analysis of an R311C variant of Ca ²⁺ -calmodulin-dependent protein kinase kinase-2 (CaMKK2) found as a de novo mutation in a patient with bipolar disorder. <i>Bipolar Disorders</i> , 2020, 22, 841-848. | 1.1 | 9 |
| 68 | An AMPK β 2-specific phospho-switch controls lysosomal targeting for activation. <i>Cell Reports</i> , 2022, 38, 110365. | 2.9 | 8 |
| 69 | Calcium/calmodulin-dependent protein kinase kinase 2 regulates hepatic fuel metabolism. <i>Molecular Metabolism</i> , 2022, 62, 101513. | 3.0 | 8 |
| 70 | Structure-function analysis of the AMPK activator SC4 and identification of a potent pan AMPK activator. <i>Biochemical Journal</i> , 2022, 479, 1181-1204. | 1.7 | 6 |
| 71 | Systemic Ablation of Camkk2 Impairs Metastatic Colonization and Improves Insulin Sensitivity in TRAMP Mice: Evidence for Cancer Cell-Extrinsic CAMKK2 Functions in Prostate Cancer. <i>Cells</i> , 2022, 11, 1890. | 1.8 | 6 |
| 72 | ATP sensitive bi-quinoline activator of the AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 435-440. | 1.0 | 5 |

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|----|--|-----|-----------|
| 73 | Factors associated with optimal patient outcomes after operative repair of isolated hip fractures in the elderly. <i>Trauma Surgery and Acute Care Open</i> , 2020, 5, e000630. | 0.8 | 5 |
| 74 | Transient Expression of AMPK Heterotrimer Complexes in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2018, 1732, 159-169. | 0.4 | 4 |
| 75 | Fake Inhibitors: AMPK Activation Trumps Inhibition. <i>Cell Chemical Biology</i> , 2017, 24, 775-777. | 2.5 | 3 |
| 76 | Staged Hybrid Left Pulmonary Artery Rehabilitation in Post-Fontan Left Pulmonary Artery Hypoplasia. <i>Annals of Thoracic Surgery</i> , 2007, 84, 2112-2114. | 0.7 | 2 |
| 77 | Decreasing time to antibiotic administration in open fractures of the femur and tibia through performance improvement in a statewide trauma: Collaborative quality initiative. <i>Surgery</i> , 2021, , . | 1.0 | 2 |
| 78 | Laparoscopic to Open Emergent Cholecystectomy: The Cost of Conversion. <i>Journal of the American College of Surgeons</i> , 2015, 221, S42-S43. | 0.2 | 0 |
| 79 | Partitioning length of stay to understand readmission risk: survival analysis in the American College of Surgeons (ACS) NSQIP database. <i>Journal of the American College of Surgeons</i> , 2015, 221, e16. | 0.2 | 0 |
| 80 | Gains in access to rehabilitation at age 65 years: a regression discontinuity analysis of the National Trauma Data Bank. <i>Journal of the American College of Surgeons</i> , 2015, 221, e37. | 0.2 | 0 |
| 81 | Phenformin and AICAR decrease transepithelial Na ⁺ transport across human H441 lung epithelial cells by different mechanisms. <i>FASEB Journal</i> , 2007, 21, A954. | 0.2 | 0 |
| 82 | Maintaining Energy Balance in Health and Disease: Role of the AMP-Activated Protein Kinase. , 2011, , 199-232. | | 0 |