# Paul M O'connor

List of Publications by Year
in descending order



| 73 | 2,473 | 218677<br>26 | 206112<br>48 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 73 | 73 | 73 | 2575 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Differential release of extracellular vesicle tRNA from oxidative stressed renal cells and ischemic kidneys. Scientific Reports, 2022, 12, 1646. | 3.3 | 3 |
| 2 | Lipopolysaccharide Pretreatment Prevents Medullary Vascular Congestion following Renal Ischemia by Limiting Early Reperfusion of the Medullary Circulation. Journal of the American Society of Nephrology: JASN, 2022, 33, 769-785. | 6.1 | 10 |
| 3 | Persistent vascular congestion in male spontaneously hypertensive rats contributes to delayed recovery of renal function following renal ischemia perfusion compared with females. Clinical Science, 2022, 136, 825-840. | 4.3 | 6 |
| 4 | Potassium Loss Promotes Impairments in Insulin Sensitivity in Rats. FASEB Journal, 2021, 35, . | 0.5 | 0 |
| 5 | IL-18 (Interleukin-18) Produced by Renal Tubular Epithelial Cells Promotes Renal Inflammation and Injury During Deoxycorticosterone/Salt-Induced Hypertension in Mice. Hypertension, 2021, 78, 1296-1309. | 2.7 | 22 |
| 6 | Renal mass reduction increases the response to exogenous insulin independent of acid-base status or plasma insulin levels in rats. American Journal of Physiology - Renal Physiology, 2021, 321, F494-F504. | 2.7 | 4 |
| 7 | Ultrasound measurement of change in kidney volume is a sensitive indicator of severity of renal parenchymal injury. American Journal of Physiology - Renal Physiology, 2020, 319, F447-F457. | 2.7 | 7 |
| 8 | Alkali supplementation as a therapeutic in chronic kidney disease: what mediates protection?. American Journal of Physiology - Renal Physiology, 2020, 319, F1090-F1104. | 2.7 | 18 |
| 9 | Greater high-mobility group box 1 in male compared with female spontaneously hypertensive rats worsens renal ischemiaâ€"reperfusion injury. Clinical Science, 2020, 134, 1751-1762. | 4.3 | 9 |
| 10 | Neurovascular protection in voltageâ€gated proton channel Hv1 knockâ€out rats after ischemic stroke: interaction with Na <sup>+</sup> /H <sup>+</sup> exchangerâ€1 antagonism. Physiological Reports, 2019, 7, e14142. | 1.7 | 9 |
| 11 | Necrosis Contributes to the Development of Hypertension in Male, but Not Female, Spontaneously Hypertensive Rats. Hypertension, 2019, 74, 1524-1531. | 2.7 | 10 |
| 12 | Going with the flow: updating old techniques to gain insight into regional kidney hemodynamics. Physiological Reports, 2019, 7, e14103. | 1.7 | 0 |
| 13 | Voltage gated proton channels modulate mitochondrial reactive oxygen species production by complex I in renal medullary thick ascending limb. Redox Biology, 2019, 27, 101191. | 9.0 | 8 |
| 14 | The TNF-derived TIP peptide activates the epithelial sodium channel and ameliorates experimental nephrotoxic serum nephritis. Kidney International, 2019, 95, 1359-1372. | 5.2 | 11 |
| 15 | Ischemic Renal Injury: Can Renal Anatomy and Associated Vascular Congestion Explain Why the Medulla and Not the Cortex Is Where the Trouble Starts?. Seminars in Nephrology, 2019, 39, 520-529. | 1.6 | 28 |
| 16 | A basic solution to activate the cholinergic anti-inflammatory pathway via the mesothelium?. Pharmacological Research, 2019, 141, 236-248. | 7.1 | 10 |
| 17 | Prevention of Vascular Congestion Improves Renal Recovery and Function Post Renal Ischemiaâ€Reperfusion in Male Spontaneous Hypertensive Rats. FASEB Journal, 2019, 33, 864.2. | 0.5 | 0 |
| 18 | Oral NaHCO3 Activates a Splenic Anti-Inflammatory Pathway: Evidence That Cholinergic Signals Are Transmitted via Mesothelial Cells. Journal of Immunology, 2018, 200, 3568-3586. | 0.8 | 22 |

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|---|---|---|---|
| 19 | Sodium bicarbonate loading limits tubular cast formation independent of glomerular injury and proteinuria in Dahl salt-sensitive rats. Clinical Science, 2018, 132, 1179-1197. | 4.3 | 12 |
| 20 | Identification of novel macropinocytosis inhibitors using a rational screen of Food and Drug Administrationâ€approved drugs. British Journal of Pharmacology, 2018, 175, 3640-3655. | 5.4 | 77 |
| 21 | Kidney-targeted inhibition of protein kinase C-Î± ameliorates nephrotoxic nephritis with restoration of mitochondrial dysfunction. Kidney International, 2018, 94, 280-291. | 5.2 | 12 |
| 22 | Striking Differences in Urinary Uromodulin, Saltâ€sensitive Hypertension and Proteinuria in Dahl SS vs. SS.BN1 Consomic Rats. FASEB Journal, 2018, 32, 716.9. | 0.5 | 0 |
| 23 | Vasa recta pericyte density is negatively associated with vascular congestion in the renal medulla following ischemia reperfusion in rats. American Journal of Physiology - Renal Physiology, 2017, 313, F1097-F1105. | 2.7 | 24 |
| 24 | Developmental Exposure to Endocrine Disruptors Expands Murine Myometrial Stem Cell Compartment as a Prerequisite to Leiomyoma Tumorigenesis. Stem Cells, 2017, 35, 666-678. | 3.2 | 46 |
| 25 | Regional Frontal Perfusion Deficits in Relapsing-Remitting Multiple Sclerosis with Cognitive Decline. American Journal of Neuroradiology, 2016, 37, 1800-1807. | 2.4 | 18 |
| 26 | Endothelinâ€1 contributes to the progression of renal injury in sickle cell disease via reactive oxygen species. British Journal of Pharmacology, 2016, 173, 386-395. | 5.4 | 37 |
| 27 | Comparison of Quantitative Cerebral Blood Flow Measurements Performed by Bookend Dynamic Susceptibility Contrast and Arterial Spin-Labeling MRI in Relapsing-Remitting Multiple Sclerosis. American Journal of Neuroradiology, 2016, 37, 2265-2272. | 2.4 | 4 |
| 28 | Proton channels and renal hypertensive injury: a key piece of the Dahl salt-sensitive rat puzzle?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R679-R690. | 1.8 | 9 |
| 29 | Renal epithelium regulates erythropoiesis via HIF-dependent suppression of erythropoietin. Journal of Clinical Investigation, 2016, 126, 1425-1437. | 8.2 | 47 |
| 30 | Reactive oxygen species as important determinants of medullary flow, sodium excretion, and hypertension. American Journal of Physiology - Renal Physiology, 2015, 308, F179-F197. | 2.7 | 88 |
| 31 | Chronic ANG II infusion induces sex-specific increases in renal T cells in Sprague-Dawley rats. American Journal of Physiology - Renal Physiology, 2015, 308, F706-F712. | 2.7 | 35 |
| 32 | <scp>ET</scp>â€1 increases reactive oxygen species following hypoxia and highâ€salt diet in the mouse glomerulus. Acta Physiologica, 2015, 213, 722-730. | 3.8 | 26 |
| 33 | Bicarbonate Therapy Alleviates Hypertensionâ€Induced Renal Injury In Dahl Saltâ€Sensitive Rats Independent of Systemic Blood Pressure. FASEB Journal, 2015, 29, 960.24. | 0.5 | 0 |
| 34 | High-salt diet blunts renal autoregulation by a reactive oxygen species-dependent mechanism. American Journal of Physiology - Renal Physiology, 2014, 307, F33-F40. | 2.7 | 44 |
| 35 | A radical approach to balancing the tides of tubular flow. American Journal of Physiology - Renal Physiology, 2014, 307, F917-F918. | 2.7 | 3 |
| 36 | Basal renal O<sub>2</sub>consumption and the efficiency of O<sub>2</sub>utilization for Na<sup>+</sup>reabsorption. American Journal of Physiology - Renal Physiology, 2014, 306, F551-F560. | 2.7 | 53 |

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|---|---|---|---|
| 37 | HV1 Acts as a Sodium Sensor and Promotes Superoxide Production in Medullary Thick Ascending Limb of Dahl Salt-Sensitive Rats. Hypertension, 2014, 64, 541-550. | 2.7 | 18 |
| 38 | Haemodynamic influences on kidney oxygenation: Clinical implications of integrative physiology. Clinical and Experimental Pharmacology and Physiology, 2013, 40, 106-122. | 1.9 | 209 |
| 39 | Sex differences in ET-1 receptor expression and Ca<sup>2+</sup>signaling in the IMCD. American Journal of Physiology - Renal Physiology, 2013, 305, F1099-F1104. | 2.7 | 27 |
| 40 | Deficiency of Renal Cortical EGF Increases ENaC Activity and Contributes to Salt-Sensitive Hypertension. Journal of the American Society of Nephrology: JASN, 2013, 24, 1053-1062. | 6.1 | 69 |
| 41 | Increased Proliferative Cells in the Medullary Thick Ascending Limb of the Loop of Henle in the Dahl Salt-Sensitive Rat. Hypertension, 2013, 61, 208-215. | 2.7 | 18 |
| 42 | Initiation and Progression of Chronic Kidney Disease. Hypertension, 2013, 62, 827-828. | 2.7 | 13 |
| 43 | NADPH oxidase and ETA receptors mediate glomerular reactive oxygen species production in sickle cell nephropathy. FASEB Journal, 2013, 27, . | 0.5 | 0 |
| 44 | Increase of sodium delivery stimulates the mitochondrial respiratory chain H<sub>2</sub>O<sub>2</sub>production in rat renal medullary thick ascending limb. American Journal of Physiology - Renal Physiology, 2012, 302, F95-F102. | 2.7 | 43 |
| 45 | Medullary Thick Ascending Limb Buffer Vasoconstriction of Renal Outer-Medullary Vasa Recta in Salt-Resistant But Not Salt-Sensitive Rats. Hypertension, 2012, 60, 965-972. | 2.7 | 19 |
| 46 | Increased Expression of NAD(P)H Oxidase Subunit p67phox in the Renal Medulla Contributes to Excess Oxidative Stress and Salt-Sensitive Hypertension. Cell Metabolism, 2012, 15, 201-208. | 16.2 | 131 |
| 47 | Role of the epithelial sodium channel (ENaC) in the development of saltâ€sensitive hypertension. FASEB Journal, 2012, 26, 867.8. | 0.5 | 0 |
| 48 | EGF deficiency contributes to the development of saltâ€sensitive hypertension via upregulation of ENaC activity. FASEB Journal, 2012, 26, 867.9. | 0.5 | 0 |
| 49 | Stability of tissue PO<sub>2</sub> in the face of altered perfusion: a phenomenon specific to the renal cortex and independent of resting renal oxygen consumption. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 247-254. | 1.9 | 26 |
| 50 | Factors that render the kidney susceptible to tissue hypoxia in hypoxemia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R931-R940. | 1.8 | 60 |
| 51 | NAD(P)H oxidase and renal epithelial ion transport. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R1023-R1029. | 1.8 | 52 |
| 52 | A mathematical model of diffusional shunting of oxygen from arteries to veins in the kidney. American Journal of Physiology - Renal Physiology, 2011, 300, F1339-F1352. | 2.7 | 46 |
| 53 | Rank product analysis of gene expression in the medullary thick ascending limb of Henle of Dahl saltâ€sensitive rats compared to saltâ€resistant SS.13BN consomic rats during the development of saltâ€sensitive hypertension. FASEB Journal, 2011, 25, 662.3. | 0.5 | 0 |
| 54 | Modulation of Pressure-Natriuresis by Renal Medullary Reactive Oxygen Species and Nitric Oxide. Current Hypertension Reports, 2010, 12, 86-92. | 3.5 | 55 |

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|---|---|---|---|
| 55 | Local maximum oxygen disappearance rate has limited utility as a measure of local renal tissue oxygen consumption. Journal of Pharmacological and Toxicological Methods, 2010, 61, 297-303. | 0.7 | 7 |
| 56 | Resurrecting Hope for Antioxidant Treatment of Cardiovascular Disease. Circulation Research, 2010, 107, 9-11. | 4.5 | 18 |
| 57 | Multiple mechanisms act to maintain kidney oxygenation during renal ischemia in anesthetized rabbits. American Journal of Physiology - Renal Physiology, 2010, 298, F1235-F1243. | 2.7 | 40 |
| 58 | Structural antioxidant defense mechanisms in the mammalian and nonmammalian kidney: different solutions to the same problem?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R723-R727. | 1.8 | 26 |
| 59 | A Novel Amiloride-Sensitive H <sup>+</sup> Transport Pathway Mediates Enhanced Superoxide Production in Thick Ascending Limb of Salt-Sensitive Rats, Not Na <sup>+</sup> /H <sup>+</sup> Exchange. Hypertension, 2009, 54, 248-254. | 2.7 | 17 |
| 60 | METHODS FOR STUDYING THE PHYSIOLOGY OF KIDNEY OXYGENATION. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 1405-1412. | 1.9 | 32 |
| 61 | Measurement of Renal Tissue Oxygen Tension: Systematic Differences between Fluorescence Optode and Microelectrode Recordings in Anaesthetized Rabbits. Nephron Physiology, 2008, 108, p11-p17. | 1.2 | 26 |
| 62 | Intrarenal oxygenation: unique challenges and the biophysical basis of homeostasis. American Journal of Physiology - Renal Physiology, 2008, 295, F1259-F1270. | 2.7 | 235 |
| 63 | Enhanced amiloride-sensitive superoxide production in renal medullary thick ascending limb of Dahl salt-sensitive rats. American Journal of Physiology - Renal Physiology, 2008, 295, F726-F733. | 2.7 | 17 |
| 64 | Evidence that renal arterial-venous oxygen shunting contributes to dynamic regulation of renal oxygenation. American Journal of Physiology - Renal Physiology, 2007, 292, F1726-F1733. | 2.7 | 91 |
| 65 | Vasopressin-induced nitric oxide production in rat inner medullary collecting duct is dependent on V2 receptor activation of the phosphoinositide pathway. American Journal of Physiology - Renal Physiology, 2007, 293, F526-F532. | 2.7 | 27 |
| 66 | Enhanced Superoxide Production in Renal Outer Medulla of Dahl Salt-Sensitive Rats Reduces Nitric Oxide Tubular-Vascular Cross-Talk. Hypertension, 2007, 49, 1336-1341. | 2.7 | 76 |
| 67 | Simultaneous Measurement of pO2 and Perfusion in The Rabbit Kidney in Vivo. , 2007, 599, 93-99. | | 12 |
| 68 | RENAL PREGLOMERULAR ARTERIALâ€"VENOUS O<sub>2</sub> SHUNTING IS A STRUCTURAL ANTIâ€OXIDANT DEFENCE MECHANISM OF THE RENAL CORTEX. Clinical and Experimental Pharmacology and Physiology, 2006, 33, 637-641. | 1.9 | 47 |
| 69 | RENAL OXYGEN DELIVERY: MATCHING DELIVERY TO METABOLIC DEMAND. Clinical and Experimental Pharmacology and Physiology, 2006, 33, 961-967. | 1.9 | 159 |
| 70 | Effect of sodium delivery on superoxide and nitric oxide in the medullary thick ascending limb. American Journal of Physiology - Renal Physiology, 2006, 291, F350-F357. | 2.7 | 62 |
| 71 | Renal medullary tissue oxygenation is dependent on both cortical and medullary blood flow. American Journal of Physiology - Renal Physiology, 2006, 290, F688-F694. | 2.7 | 79 |
| 72 | Vasopressin V2 receptor mediated Ca2+ transients in the rat inner medullary collecting duct are dependent on phospholipase C and extracellular Ca2+. FASEB Journal, 2006, 20, A1220. | 0.5 | 2 |

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|---|---|---|---|
| 73 | Letter to the Editor. Clinical and Experimental Pharmacology and Physiology, 2004, 31, 658-658. | 1.9 | 2 |