

# Joseph M Rutkowski

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

5,076  
citations

159585

30  
h-index

144013

57  
g-index

64  
all docs

64  
docs citations

64  
times ranked

8618  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Receptor-mediated activation of ceramidase activity initiates the pleiotropic actions of adiponectin. <i>Nature Medicine</i> , 2011, 17, 55-63.   | 30.7 | 751       |
| 2  | Adiponectin, Leptin, and Fatty Acids in the Maintenance of Metabolic Homeostasis through Adipose Tissue Crosstalk. <i>Cell Metabolism</i> , 2016, 23, 770-784.                            | 16.2 | 730       |
| 3  | The cell biology of fat expansion. <i>Journal of Cell Biology</i> , 2015, 208, 501-512.   | 5.2  | 428       |
| 4  | An Endothelial-to-Adipocyte Extracellular Vesicle Axis Governed by Metabolic State. <i>Cell</i> , 2018, 175, 695-708.e13.   | 28.9 | 277       |
| 5  | A driving force for change: interstitial flow as a morphoregulator. <i>Trends in Cell Biology</i> , 2007, 17, 44-50.  | 7.9  | 248       |
| 6  | Secondary lymphedema in the mouse tail: Lymphatic hyperplasia, VEGF-C upregulation, and the protective role of MMP-9. <i>Microvascular Research</i> , 2006, 72, 161-171.                  | 2.5  | 207       |
| 7  | Transmural Flow Modulates Cell and Fluid Transport Functions of Lymphatic Endothelium. <i>Circulation Research</i> , 2010, 106, 920-931.  | 4.5  | 207       |
| 8  | Mechanisms of obesity and related pathologies: The macro- and microcirculation of adipose tissue. <i>FEBS Journal</i> , 2009, 276, 5738-5746.   | 4.7  | 194       |
| 9  | Adiponectin Promotes Functional Recovery after Podocyte Ablation. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 268-282.   | 6.1  | 142       |
| 10 | Hypercholesterolemic Mice Exhibit Lymphatic Vessel Dysfunction and Degeneration. <i>American Journal of Pathology</i> , 2009, 175, 1328-1337.   | 3.8  | 136       |
| 11 | Characterization of lymphangiogenesis in a model of adult skin regeneration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1402-H1410.           | 3.2  | 135       |
| 12 | Cooperative and redundant roles of VEGFR $\alpha$ 2 and VEGFR $\alpha$ 3 signaling in adult lymphangiogenesis. <i>FASEB Journal</i> , 2007, 21, 1003-1012.                                | 0.5  | 126       |
| 13 | Neuronal and nonneuronal cholinergic structures in the mouse gastrointestinal tract and spleen. <i>Journal of Comparative Neurology</i> , 2013, 521, 3741-3767.                           | 1.6  | 115       |
| 14 | Targeted Deletion of Adipocytes by Apoptosis Leads to Adipose Tissue Recruitment of Alternatively Activated M2 Macrophages. <i>Endocrinology</i> , 2011, 152, 3074-3081.                  | 2.8  | 114       |
| 15 | Impaired Humoral Immunity and Tolerance in <i>K14-VEGFR-3-Ig</i> Mice That Lack Dermal Lymphatic Drainage. <i>Journal of Immunology</i> , 2012, 189, 2181-2190.                           | 0.8  | 111       |
| 16 | The Role of Proprotein Convertase Subtilisin/Kexin Type 9 in Nephrotic Syndrome-Associated Hypercholesterolemia. <i>Circulation</i> , 2016, 134, 61-72.                                   | 1.6  | 89        |
| 17 | Dermal Collagen and Lipid Deposition Correlate with Tissue Swelling and Hydraulic Conductivity in Murine Primary Lymphedema. <i>American Journal of Pathology</i> , 2010, 176, 1122-1129. | 3.8  | 85        |
| 18 | Regulation of lymphatic capillary regeneration by interstitial flow in skin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H2176-H2183.           | 3.2  | 80        |

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|----|--|-----|-----------|
| 19 | Enhancing Renal Lymphatic Expansion Prevents Hypertension in Mice. <i>Circulation Research</i> , 2018, 122, 1094-1101.   | 4.5 | 59        |
| 20 | Lymphangiogenesis: fuel, smoke, or extinguisher of inflammation's fire?. <i>Experimental Biology and Medicine</i> , 2017, 242, 884-895.  | 2.4 | 55        |
| 21 | Normal Dendritic Cell Mobilization to Lymph Nodes under Conditions of Severe Lymphatic Hypoplasia. <i>Journal of Immunology</i> , 2013, 190, 4608-4620.  | 0.8 | 53        |
| 22 | Proteinuria Increases Plasma Phosphate by Altering Its Tubular Handling. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1608-1618.   | 6.1 | 53        |
| 23 | Vascular Endothelial Growth Factor's (VEGF-D) Overexpression and Lymphatic Expansion in Murine Adipose Tissue Improves Metabolism in Obesity. <i>American Journal of Pathology</i> , 2019, 189, 924-939.                                   | 3.8 | 53        |
| 24 | VEGF-C promotes the development of lymphatics in bone and bone loss. <i>ELife</i> , 2018, 7, .   | 6.0 | 50        |
| 25 | Adiponectin alters renal calcium and phosphate excretion through regulation of klotho expression. <i>Kidney International</i> , 2017, 91, 324-337.   | 5.2 | 45        |
| 26 | Time course of histomorphological changes in adipose tissue upon acute lipoatrophy. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2013, 23, 723-731.  | 2.6 | 44        |
| 27 | Elevated resistin levels induce central leptin resistance and increased atherosclerotic progression in mice. <i>Diabetologia</i> , 2014, 57, 1209-1218.  | 6.3 | 44        |
| 28 | Lack of 'immunological fitness' during fasting in metabolically challenged animals. <i>Journal of Lipid Research</i> , 2012, 53, 1254-1267.  | 4.2 | 37        |
| 29 | Hyperplasia, de novo lymphangiogenesis, and lymphatic regression in mice with tissue-specific, inducible overexpression of murine VEGF-D. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H384-H394. | 3.2 | 37        |
| 30 | Renal inflammation and injury are associated with lymphangiogenesis in hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F861-F869.  | 2.7 | 35        |
| 31 | Differential role of nicotinamide adenine dinucleotide deficiency in acute and chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2021, 36, 60-68.   | 0.7 | 35        |
| 32 | Augmenting Renal Lymphatic Density Prevents Angiotensin II-Induced Hypertension in Male and Female Mice. <i>American Journal of Hypertension</i> , 2020, 33, 61-69.  | 2.0 | 27        |
| 33 | Kidney-specific lymphangiogenesis increases sodium excretion and lowers blood pressure in mice. <i>Journal of Hypertension</i> , 2020, 38, 874-885.  | 0.5 | 25        |
| 34 | Decreased Renal Gluconeogenesis Is a Hallmark of Chronic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 810-827.   | 6.1 | 24        |
| 35 | VEGFR-3 Neutralization Inhibits Ovarian Lymphangiogenesis, Follicle Maturation, and Murine Pregnancy. <i>American Journal of Pathology</i> , 2013, 183, 1596-1607.   | 3.8 | 22        |
| 36 | Retrograde Lymph Flow Leads to Chylothorax in Transgenic Mice with Lymphatic Malformations. <i>American Journal of Pathology</i> , 2017, 187, 1984-1997.   | 3.8 | 22        |

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|----|---|-----|-----------|
| 37 | Immune cell trafficking, lymphatics and hypertension. <i>British Journal of Pharmacology</i> , 2019, 176, 1978-1988.  | 5.4 | 22        |
| 38 | Klotho regulation by albuminuria is dependent on ATF3 and endoplasmic reticulum stress. <i>FASEB Journal</i> , 2020, 34, 2087-2104.   | 0.5 | 19        |
| 39 | Differential transendothelial transport of adiponectin complexes. <i>Cardiovascular Diabetology</i> , 2014, 13, 47.   | 6.8 | 17        |
| 40 | Na v 1.8 neurons are involved in limiting acute phase responses to dietary fat. <i>Molecular Metabolism</i> , 2017, 6, 1081-1091.   | 6.5 | 16        |
| 41 | Current Mechanistic Understandings of Lymphedema and Lipedema: Tales of Fluid, Fat, and Fibrosis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6621.  | 4.1 | 16        |
| 42 | Characterizing Lymphangiogenesis and Concurrent Inflammation in Adipose Tissue in Response to VEGF-D. <i>Frontiers in Physiology</i> , 2020, 11, 363.   | 2.8 | 11        |
| 43 | Pathological Type-2 Immune Response, Enhanced Tumor Growth, and Glucose Intolerance in Retn <sup>l1</sup> <sup>2</sup> (RELM <sup>1</sup> ) Null Mice. <i>American Journal of Pathology</i> , 2016, 186, 2404-2416. | 3.8 | 10        |
| 44 | Isolation and Quantitation of Adiponectin Higher Order Complexes. <i>Methods in Enzymology</i> , 2014, 537, 243-259.  | 1.0 | 9         |
| 45 | Time-course of sodium transport along the nephron in nephrotic syndrome: The role of potassium. <i>FASEB Journal</i> , 2020, 34, 2408-2424.   | 0.5 | 7         |
| 46 | Expanded renal lymphatics improve recovery following kidney injury. <i>Physiological Reports</i> , 2021, 9, e15094.   | 1.7 | 7         |
| 47 | Emerging roles for lymphatics in acute kidney injury: Beneficial or maleficent?. <i>Experimental Biology and Medicine</i> , 2021, 246, 845-850.   | 2.4 | 6         |
| 48 | Hypertension and reproductive dysfunction: a possible role of inflammation and inflammation-associated lymphangiogenesis in gonads. <i>Clinical Science</i> , 2020, 134, 3237-3257.                                 | 4.3 | 6         |
| 49 | A Kidney-Targeted Nanoparticle to Augment Renal Lymphatic Density Decreases Blood Pressure in Hypertensive Mice. <i>Pharmaceutics</i> , 2022, 14, 84.   | 4.5 | 6         |
| 50 | Chronic VEGFR-3 signaling preserves dendritic arborization and sensitization under stress. <i>Brain, Behavior, and Immunity</i> , 2021, 98, 219-233.  | 4.1 | 5         |
| 51 | Reduced lymphatic function contributes to age-related disease. <i>Aging</i> , 2019, 11, 9969-9970.  | 3.1 | 5         |
| 52 | Comparison of ozone-specific (OZAC) and oxygen radical (ORAC) antioxidant capacity assays for use with nasal lavage fluid. <i>Toxicology in Vitro</i> , 2011, 25, 1406-1413.  | 2.4 | 4         |
| 53 | Dichotomous effects on lymphatic transport with loss of caveolae in mice. <i>Acta Physiologica</i> , 2021, 232, e13656.   | 3.8 | 4         |
| 54 | Common Metabolites in Two Different Hypertensive Mouse Models: A Serum and Urine Metabolome Study. <i>Biomolecules</i> , 2021, 11, 1387.  | 4.0 | 4         |

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|----|--|------|-----------|
| 55 | Fixing lymphatics improves glucose metabolism. <i>Nature Metabolism</i> , 2021, 3, 1139-1141.  | 11.9 | 3         |
| 56 | Development of an Assay for Ozone-Specific Antioxidant Capacity. <i>Inhalation Toxicology</i> , 2003, 15, 1369-1385.   | 1.6  | 2         |
| 57 | Impact of High Fat Diet and Bolus Feeding on Chyle Accumulation in a Mouse Model of Generalized Lymphatic Anomaly. <i>Lymphatic Research and Biology</i> , 2021, , . | 1.1  | 1         |
| 58 | Impact of Dietary Fatty Acids on Chylous Effusion in a Mouse Model of Generalized Lymphatic Anomaly. <i>FASEB Journal</i> , 2021, 35, .                              | 0.5  | 0         |
| 59 | Active response of the lymphatic endothelium to acute inflammation vs. chronic lymphedema: in vivo and in vitro studies. <i>FASEB Journal</i> , 2007, 21, A848.      | 0.5  | 0         |
| 60 | ACTIVE REGULATION OF LIPID TRANSPORT AND METABOLISM BY LYMPHATICS: COMPLIMENTARY IN VIVO AND IN VITRO STUDIES. <i>FASEB Journal</i> , 2009, 23, 813.2.               | 0.5  | 0         |
| 61 | Preadipocyte differentiation in GelMA hydrogels for mechanical testing. <i>FASEB Journal</i> , 2018, 32, .   | 0.5  | 0         |
| 62 | Evaluation of the Cardiometabolic Disorders after Spinal Cord Injury in Mice. <i>Biology</i> , 2022, 11, 495.  | 2.8  | 0         |