

# Barbara J Ballermann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6329361/publications.pdf>

Version: 2024-02-01

66  
papers

5,528  
citations

94433

37  
h-index

110387

64  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diverse biological actions of atrial natriuretic peptide. <i>Physiological Reviews</i> , 1990, 70, 665-699.	28.8	891
2	Endothelin action on vascular smooth muscle involves inositol trisphosphate and calcium mobilization. <i>Biochemical and Biophysical Research Communications</i> , 1989, 158, 86-93.	2.1	351
3	Shear stress and the endothelium. <i>Kidney International</i> , 1998, 54, S100-S108.	5.2	333
4	Renal Considerations in Angiotensin Converting Enzyme Inhibitor Therapy. <i>Circulation</i> , 2001, 104, 1985-1991.	1.6	305
5	George E. Brown memorial lecture. Role of atrial peptides in body fluid homeostasis. <i>Circulation Research</i> , 1986, 58, 619-630.	4.5	255
6	Endothelium-dependent vascular responses. Mediators and mechanisms. <i>Journal of Clinical Investigation</i> , 1989, 84, 1373-1378.	8.2	226
7	Physiologic regulation of atrial natriuretic peptide receptors in rat renal glomeruli. <i>Journal of Clinical Investigation</i> , 1985, 76, 2049-2056.	8.2	215
8	Biologically active atrial peptides. <i>Journal of Clinical Investigation</i> , 1985, 76, 2041-2048.	8.2	199
9	Elevated plasma atrial natriuretic peptide levels in diabetic rats. Potential mediator of hyperfiltration. <i>Journal of Clinical Investigation</i> , 1987, 80, 670-674.	8.2	180
10	Regulation of Endothelial Nitric-oxide Synthase during Hypoxia. <i>Journal of Biological Chemistry</i> , 1996, 271, 15069-15073.	3.4	176
11	Tumor necrosis factor alpha activates soluble guanylate cyclase in bovine glomerular mesangial cells via an L-arginine-dependent mechanism. <i>Journal of Experimental Medicine</i> , 1990, 172, 1843-1852.	8.5	132
12	Regulation of matrix metalloproteinase-2 (MMP-2) activity by phosphorylation. <i>FASEB Journal</i> , 2007, 21, 2486-2495.	0.5	132
13	Inhibition of Capillary Morphogenesis and Associated Apoptosis by Dominant Negative Mutant Transforming Growth Factor- $\beta$ 2 Receptors. <i>Journal of Biological Chemistry</i> , 1995, 270, 21144-21150.	3.4	131
14	Shear stress-conditioned, endothelial cell-seeded vascular grafts: Improved cell adherence in response to in vitro shear stress*. <i>Surgery</i> , 1995, 117, 334-339.	1.9	104
15	Glomerular endothelial cell differentiation. <i>Kidney International</i> , 2005, 67, 1668-1671.	5.2	92
16	Identification and characterization of endothelin binding sites in rat renal papillary and glomerular membranes. <i>Biochemical and Biophysical Research Communications</i> , 1989, 162, 130-137.	2.1	85
17	Chronic in vitro shear stress stimulates endothelial cell retention on prosthetic vascular grafts and reduces subsequent in vivo neointimal thickness. <i>Journal of Vascular Surgery</i> , 1999, 29, 157-167.	1.1	81
18	Atrial natriuretic peptide transcription, secretion, and glomerular receptor activity during mineralocorticoid escape in the rat. <i>Journal of Clinical Investigation</i> , 1986, 78, 840-843.	8.2	77

#	ARTICLE	IF	CITATIONS
19	Rat mesangial cell hypertrophy in response to transforming growth factor- $\beta$ 1. <i>Kidney International</i> , 1993, 44, 948-958.	5.2	76
20	TGF- $\beta$ 2 and the endothelium during immune injury. <i>Kidney International</i> , 1997, 51, 1401-1412.	5.2	73
21	Endothelial Cell Apoptosis during Glomerular Capillary Lumen Formation In Vivo. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 1349-1354.	6.1	72
22	Glomerular Endothelial Fenestrae In Vivo Are Not Formed from Caveolae. <i>Journal of the American Society of Nephrology: JASN</i> , 2002, 13, 2639-2647.	6.1	70
23	Resolved. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 2432-2438.	6.1	67
24	Contribution of the Endothelium to the Glomerular Permselectivity Barrier in Health and Disease. <i>Nephron Physiology</i> , 2007, 106, p19-p25.	1.2	65
25	Glomerular endothelium: A porous sieve and formidable barrier. <i>Experimental Cell Research</i> , 2012, 318, 964-972.	2.6	65
26	Characterization and regulation by protein kinase C of renal glomerular atrial natriuretic peptide receptor-coupled guanylate cyclase. <i>Biochemical and Biophysical Research Communications</i> , 1988, 157, 755-761.	2.1	60
27	Role of atrial natriuretic peptide in adaptation of sodium excretion with reduced renal mass.. <i>Journal of Clinical Investigation</i> , 1986, 77, 1395-1398.	8.2	55
28	Endothelial cell activation. <i>Kidney International</i> , 1998, 53, 1810-1826.	5.2	53
29	CLIC5A, a component of the ezrin-podocalyxin complex in glomeruli, is a determinant of podocyte integrity. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, F1492-F1503.	2.7	51
30	Tipping the balance from angiogenesis to fibrosis in CKD. <i>Kidney International Supplements</i> , 2014, 4, 45-52.	14.2	50
31	Adhesion and Differentiation of Endothelial Cells by Exposure to Chronic Shear Stress: A Vascular Graft Model. <i>Blood Purification</i> , 1995, 13, 125-134.	1.8	49
32	Chronic In Vitro Flow Promotes Ultrastructural Differentiation of Endothelial Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1995, 3, 21-30.	1.7	49
33	TIMAP, a novel CAAX box protein regulated by TGF- $\beta$ 1 and expressed in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C327-C337.	4.6	49
34	Phosphorylation of Rac1 T108 by Extracellular Signal-Regulated Kinase in Response to Epidermal Growth Factor: a Novel Mechanism To Regulate Rac1 Function. <i>Molecular and Cellular Biology</i> , 2013, 33, 4538-4551.	2.3	46
35	Neutralizing TGF- $\beta$ 1 antibody infusion in neonatal rat delays in vivo glomerular capillary formation. <i>Kidney International</i> , 1999, 56, 1334-1348.	5.2	40
36	Superoxide Regulation of Endothelin-converting Enzyme. <i>Journal of Biological Chemistry</i> , 2000, 275, 26423-26427.	3.4	40

#	ARTICLE	IF	CITATIONS
37	Phosphorylation and Activation of RhoA by ERK in Response to Epidermal Growth Factor Stimulation. PLoS ONE, 2016, 11, e0147103.	2.5	40
38	Identification and characterization of leukotriene C4 receptors in isolated rat renal glomeruli. Circulation Research, 1985, 56, 324-330.	4.5	39
39	Synthesis of sulfated proteoglycans by bovine glomerular endothelial cells in culture. American Journal of Physiology - Renal Physiology, 2003, 284, F373-F380.	2.7	36
40	Diminished NF- $\kappa$ B activation and PDGF-B expression in glomerular endothelial cells subjected to chronic shear stress. Microvascular Research, 2003, 65, 137-144.	2.5	35
41	The protein phosphatase-1 targeting subunit TIMAP regulates LAMR1 phosphorylation. Biochemical and Biophysical Research Communications, 2005, 338, 1327-1334.	2.1	30
42	Irradiation modulates association of NF-Y with histone-modifying cofactors PCAF and HDAC. Oncogene, 2007, 26, 7576-7583.	5.9	30
43	TGF- $\beta$ 2 type II receptor in rat renal vascular development: Localization to juxtaglomerular cells. Kidney International, 1998, 53, 716-725.	5.2	26
44	A SAGE-based comparison between glomerular and aortic endothelial cells. American Journal of Physiology - Renal Physiology, 2005, 288, F1290-F1300.	2.7	26
45	A role for leptin in glomerulosclerosis?. Kidney International, 1999, 56, 1154-1155.	5.2	25
46	A human glomerular SAGE transcriptome database. BMC Nephrology, 2009, 10, 13.	1.8	23
47	Phosphorylation of TIMAP by Glycogen Synthase Kinase-3 $\beta$ Activates Its Associated Protein Phosphatase 1. Journal of Biological Chemistry, 2007, 282, 25960-25969.	3.4	22
48	Repressors NFI and NFY Participate in Organ-Specific Regulation of von Willebrand Factor Promoter Activity in Transgenic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1423-1429.	2.4	22
49	Clustered phosphatidylinositol 4,5 bisphosphate accumulation and ezrin phosphorylation in response to CLIC5A. Journal of Cell Science, 2014, 127, 5164-78.	2.0	21
50	The chloride intracellular channel 5A stimulates podocyte Rac1, protecting against hypertension-induced glomerular injury. Kidney International, 2016, 89, 833-847.	5.2	18
51	Expression of SET is modulated as a function of cell proliferation. Journal of Cellular Biochemistry, 1999, 74, 119-126.	2.6	17
52	TIMAP promotes angiogenesis by suppressing PTEN-mediated Akt inhibition in human glomerular endothelial cells. American Journal of Physiology - Renal Physiology, 2014, 307, F623-F633.	2.7	17
53	Both CLIC4 and CLIC5A activate ERM proteins in glomerular endothelium. American Journal of Physiology - Renal Physiology, 2016, 311, F945-F957.	2.7	17
54	Smooth Muscle Cell Proliferation in Response to Co-culture with Venous and Arterial Endothelial Cells. Journal of Vascular and Interventional Radiology, 1997, 8, 375-381.	0.5	16

#	ARTICLE	IF	CITATIONS
55	The Glomerular Endothelium Restricts Albumin Filtration. <i>Frontiers in Medicine</i> , 2021, 8, 766689.	2.6	16
56	Multi-directional function of the protein phosphatase 1 regulatory subunit TIMAP. <i>Biochemical and Biophysical Research Communications</i> , 2013, 435, 567-573.	2.1	12
57	Inhibition of Accelerated Graft Arteriosclerosis by Gene Transfer of Soluble Fibroblast Growth Factor Receptor-1 in Rat Aortic Transplants. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 1081-1086.	2.4	11
58	Endothelial Cell Identity, Heterogeneity and Plasticity in the Kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 1-2.	6.1	10
59	Successful delayed bilateral renal revascularization during active phase of Takayasu's arteritis. <i>Journal of Vascular Surgery</i> , 1998, 27, 552-554.	1.1	7
60	TIMAP inhibits endothelial myosin light chain phosphatase by competing with MYPT1 for the catalytic protein phosphatase 1 subunit PP1c <sup>2</sup> . <i>Journal of Biological Chemistry</i> , 2019, 294, 13280-13291.	3.4	6
61	Renal Actions of Atrial Natriuretic Peptides. , 1987, , 83-92.		3
62	Gelatin Increases Adherence of Polyurethane Vascular Grafts to Glass Slides. <i>Journal of Histotechnology</i> , 1998, 21, 245-247.	0.5	2
63	Dependence of Renal Microvessel Density on Angiotensin II. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 386-388.	6.1	2
64	Adding Endothelium to Artificial Vascular Grafts. <i>Physiology</i> , 1998, 13, 154-154.	3.1	1
65	An In Vitro Kinase Assay to Assess Rac1 Phosphorylation by ERK. <i>Methods in Molecular Biology</i> , 2018, 1821, 131-140.	0.9	1
66	Transforming Growth Factor- $\beta^2$ and the Endothelium. , 2007, , 304-323.		0