Alessandra Boletta

List of Publications by Year
in descending order

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54 papers	4,557 citations	147801 31 h-index	182427 51 g-index
55 all docs	55 docs citations	55 times ranked	3753 citing authors

#	Article	IF	Citations
1	Co-assembly of polycystin-1 and -2 produces unique cation-permeable currents. Nature, 2000, 408, 990-994.	27.8	759
2	Defective glucose metabolism in polycystic kidney disease identifies a new therapeutic strategy. Nature Medicine, 2013, 19, 488-493.	30.7	403
3	PKD1 Induces p21waf1 and Regulation of the Cell Cycle via Direct Activation of the JAK-STAT Signaling Pathway in a Process Requiring PKD2. Cell, 2002, 109, 157-168.	28.9	392
4	Cleavage of polycystin-1 requires the receptor for egg jelly domain and is disrupted by human autosomal-dominant polycystic kidney disease 1-associated mutations. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16981-16986.	7.1	281
5	Polycystin-1, the Gene Product of PKD1 , Induces Resistance to Apoptosis and Spontaneous Tubulogenesis in MDCK Cells. Molecular Cell, 2000, 6, 1267-1273.	9.7	206
6	Nonviral Gene Delivery to the Rat Kidney with Polyethylenimine. Human Gene Therapy, 1997, 8, 1243-1251.	2.7	188
7	PI3K Class II Î± Controls Spatially Restricted Endosomal PtdIns3P and Rab11 Activation to Promote Primary Cilium Function. Developmental Cell, 2014, 28, 647-658.	7.0	177
8	Polycystin-1 Regulates Extracellular Signal-Regulated Kinase-Dependent Phosphorylation of Tuberin To Control Cell Size through mTOR and Its Downstream Effectors S6K and 4EBP1. Molecular and Cellular Biology, 2009, 29, 2359-2371.	2.3	175
9	2-Deoxy-d-Glucose Ameliorates PKD Progression. Journal of the American Society of Nephrology: JASN, 2016, 27, 1958-1969.	6.1	140
10	Metabolism and mitochondria in polycystic kidney disease research andÂtherapy. Nature Reviews Nephrology, 2018, 14, 678-687.	9.6	122
11	Ciliary membrane proteins traffic through the Golgi via a Rabep1/GGA1/Arl3-dependent mechanism. Nature Communications, 2014, 5, 5482.	12.8	101
12	Role of polycystins in renal tubulogenesis. Trends in Cell Biology, 2003, 13, 484-492.	7.9	99
13	Polycystin-1 Induces Cell Migration by Regulating Phosphatidylinositol 3-kinase-dependent Cytoskeletal Rearrangements and GSK3Î²-dependent Cellâ€“Cell Mechanical Adhesion. Molecular Biology of the Cell, 2007, 18, 4050-4061.	2.1	96
14	Prospects for mTOR Inhibitor Use in Patients with Polycystic Kidney Disease and Hamartomatous Diseases. Clinical Journal of the American Society of Nephrology: CJASN, 2010, 5, 1312-1329.	4.5	85
15	A Novel Mouse Model Reveals that Polycystin-1 Deficiency in Ependyma and Choroid Plexus Results in Dysfunctional Cilia and Hydrocephalus. PLoS ONE, 2009, 4, e7137.	2.5	81
16	Polycystin-1 Induces Resistance to Apoptosis through the Phosphatidylinositol 3-Kinase/Akt Signaling Pathway. Journal of the American Society of Nephrology: JASN, 2006, 17, 637-647.	6.1	75
17	The polycystins are modulated by cellular oxygen-sensing pathways and regulate mitochondrial function. Molecular Biology of the Cell, 2017, 28, 261-269.	2.1	73
18	Emerging evidence of a link between the polycystins and the mTOR pathways. PathoGenetics, 2009, 2, 6.	5.7	72

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19	mTORC1 signaling and primary cilia are required for brain ventricle morphogenesis. Development (Cambridge), 2017, 144, 201-210.	2.5	69
20	Dissection of metabolic reprogramming in polycystic kidney disease reveals coordinated rewiring of bioenergetic pathways. Communications Biology, 2018, 1, 194.	4.4	65
21	Identification of a Polycystin-1 Cleavage Product, P100, That Regulates Store Operated Ca2+ Entry through Interactions with STIM1. PLoS ONE, 2010, 5, e12305.	2.5	64
22	Renal-Retinal Ciliopathy Gene Sdccag8 Regulates DNA Damage Response Signaling. Journal of the American Society of Nephrology: JASN, 2014, 25, 2573-2583.	6.1	63
23	Metabolic reprogramming and the role of mitochondria in polycystic kidney disease. Cellular Signalling, 2020, 67, 109495.	3.6	61
24	mTORC1-mediated inhibition of polycystin-1 expression drives renal cyst formation in tuberous sclerosis complex. Nature Communications, 2016, 7, 10786.	12.8	55
25	Novel Functional Complexity of Polycystin-1 by GPS Cleavage In Vivo: Role in Polycystic Kidney Disease. Molecular and Cellular Biology, 2014, 34, 3341-3353.	2.3	50
26	Polycystin-1 binds Par3/aPKC and controls convergent extension during renal tubular morphogenesis. Nature Communications, 2013, 4, 2658.	12.8	48
27	Mechanosensory Genes Pkd1 and Pkd2 Contribute to the Planar Polarization of Brain Ventricular Epithelium. Journal of Neuroscience, 2015, 35, 11153-11168.	3.6	47
28	Phosphoinositide 3-Kinase-C2Î± Regulates Polycystin-2 Ciliary Entry and Protects against Kidney Cyst Formation. Journal of the American Society of Nephrology: JASN, 2016, 27, 1135-1144.	6.1	47
29	Biochemical characterization of bona fide polycystin-1 in vitro and in vivo. American Journal of Kidney Diseases, 2001, 38, 1421-1429.	1.9	46
30	Polycystin-1 Is Required for Stereocilia Structure But Not for Mechanotransduction in Inner Ear Hair Cells. Journal of Neuroscience, 2011, 31, 12241-12250.	3.6	40
31	Defective metabolism in polycystic kidney disease: potential for therapy and open questions. Nephrology Dialysis Transplantation, 2014, 29, 1480-1486.	0.7	38
32	Increased mitochondrial fragmentation in polycystic kidney disease acts as a modifier of disease progression. FASEB Journal, 2020, 34, 6493-6507.	0.5	31
33	Regulation of the microtubular cytoskeleton by Polycystin-1 favors focal adhesions turnover to modulate cell adhesion and migration. BMC Cell Biology, 2015, 16, 15.	3.0	30
34	Polycystin-1 Negatively Regulates Polycystin-2 Expression via the Aggresome/Autophagosome Pathway. Journal of Biological Chemistry, 2014, 289, 6404-6414.	3.4	29
35	Defective glycolysis and the use of 2-deoxy-d-glucose in polycystic kidney disease: from animal models to humans. Journal of Nephrology, 2017, 30, 511-519.	2.0	28
36	A Regulatory Role of Polycystin-1 on Cystic Fibrosis Transmembrane Conductance Regulator Plasma Membrane Expression. Cellular Physiology and Biochemistry, 2006, 18, 9-20.	1.6	26

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37	Nephrocystin-1 Forms a Complex with Polycystin-1 via a Polyproline Motif/SH3 Domain Interaction and Regulates the Apoptotic Response in Mammals. PLoS ONE, 2010, 5, e12719.	2.5	25
38	Polycystin-1 Regulates Actomyosin Contraction and the Cellular Response to Extracellular Stiffness. Scientific Reports, 2019, 9, 16640.	3.3	24
39	Role of the Polycystins in Cell Migration, Polarity, and Tissue Morphogenesis. Cells, 2015, 4, 687-705.	4.1	20
40	mTORC1ÂUpregulation Leads to Accumulation of the Oncometabolite Fumarate in a Mouse Model of Renal Cell Carcinoma. Cell Reports, 2018, 24, 1093-1104.e6.	6.4	20
41	TWEAK Signaling Pathway Blockade Slows Cyst Growth and Disease Progression in Autosomal Dominant Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2021, 32, 1913-1932.	6.1	18
42	Polycystin-1 regulates the stability and ubiquitination of transcription factor Jade-1. Human Molecular Genetics, 2012, 21, 5456-5471.	2.9	17
43	Role of the KEAP1-NRF2 Axis in Renal Cell Carcinoma. Cancers, 2020, 12, 3458.	3.7	17
44	Double inhibition of cAMP and mTOR signalling may potentiate the reduction of cell growth in ADPKD cells. Clinical and Experimental Nephrology, 2017, 21, 203-211.	1.6	16
45	Role of the polycystins as mechanosensors of extracellular stiffness. American Journal of Physiology - Renal Physiology, 2021, 320, F693-F705.	2.7	14
46	Impaired glomerulogenesis and endothelial cell migration in Pkd1-deficient renal organ cultures. Biochemical and Biophysical Research Communications, 2014, 444, 473-479.	2.1	8
47	Slowing Polycystic Kidney Disease by Fasting. Journal of the American Society of Nephrology: JASN, 2016, 27, 1268-1270.	6.1	5
48	The N-Terminal Domain of NPHP1 Folds into a Monomeric Left-Handed Antiparallel Three-Stranded Coiled Coil with Anti-apoptotic Function. ACS Chemical Biology, 2019, 14, 1845-1854.	3.4	4
49	mTORC1-driven accumulation of the oncometabolite fumarate as a potential critical step in renal cancer progression. Molecular and Cellular Oncology, 2019, 6, 1537709.	0.7	3
50	In SILICO Simulations Predict a Causative Link Between Increased Glycolysis and Metabolic Reprogramming in Autosomal Dominant Polycystic Kidney Disease. , 2019, , .		1
51	Metabolic reprogramming in polycystic kidney disease explained by super-enhancers and CDK7: new therapeutic targets?. Nature Metabolism, 2020, 2, 659-660.	11.9	1
52	Reversing polycystic kidney disease. Nature Genetics, 2021, 53, 1623-1624.	21.4	1
53	P-104: Targeting the mitochondrial protease CLPP in Multiple Myeloma. Clinical Lymphoma, Myeloma and Leukemia, 2021, 21, S95.	0.4	0
54	Disruption of polycystin-1 cleavage leads to cardiac metabolic rewiring in mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166371.	3.8	0