

# Sylvie Breton

## List of Publications by Citations

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91  
papers

5,289  
citations

45  
h-index

72  
g-index

94  
ext. papers

5,858  
ext. citations

6.4  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
91	Dedifferentiation of committed epithelial cells into stem cells in vivo. <i>Nature</i> , <b>2013</b> , 503, 218-23	50.4	445
90	Renal vacuolar H <sup>+</sup> -ATPase. <i>Physiological Reviews</i> , <b>2004</b> , 84, 1263-314	47.9	345
89	Acidification of the male reproductive tract by a proton pumping (H <sup>+</sup> )-ATPase. <i>Nature Medicine</i> , <b>1996</b> , 2, 470-2	50.5	210
88	Bicarbonate-regulated adenylyl cyclase (sAC) is a sensor that regulates pH-dependent V-ATPase recycling. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 49523-9	5.4	186
87	Mitochondria-rich, proton-secreting epithelial cells.. <i>Journal of Experimental Biology</i> , <b>1996</b> , 199, 2345-2358		149
86	Distinct expression patterns of different subunit isoforms of the V-ATPase in the rat epididymis. <i>Biology of Reproduction</i> , <b>2006</b> , 74, 185-94	3.9	132
85	Mitochondria-rich, proton-secreting epithelial cells. <i>Journal of Experimental Biology</i> , <b>1996</b> , 199, 2345-58	3	126
84	Regulation of luminal acidification by the V-ATPase. <i>Physiology</i> , <b>2013</b> , 28, 318-29	9.8	124
83	The B1 subunit of the H <sup>+</sup> ATPase is a PDZ domain-binding protein. Colocalization with NHE-RF in renal B-intercalated cells. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 18219-24	5.4	124
82	Transepithelial projections from basal cells are luminal sensors in pseudostratified epithelia. <i>Cell</i> , <b>2008</b> , 135, 1108-17	56.2	123
81	Aquaporin 9 expression along the male reproductive tract. <i>Biology of Reproduction</i> , <b>2001</b> , 65, 384-93	3.9	122
80	Regulation of the V-ATPase in kidney epithelial cells: dual role in acid-base homeostasis and vesicle trafficking. <i>Journal of Experimental Biology</i> , <b>2009</b> , 212, 1762-72	3	110
79	H <sup>(+)</sup> V-ATPase-dependent luminal acidification in the kidney collecting duct and the epididymis/vas deferens: vesicle recycling and transcytotic pathways. <i>Journal of Experimental Biology</i> , <b>2000</b> , 203, 137-145	3	109
78	New insights into the regulation of V-ATPase-dependent proton secretion. <i>American Journal of Physiology - Renal Physiology</i> , <b>2007</b> , 292, F1-10	4.3	107
77	Establishment of cell-cell cross talk in the epididymis: control of luminal acidification. <i>Journal of Andrology</i> , <b>2011</b> , 32, 576-86		93
76	Regulation of luminal acidification in the male reproductive tract via cell-cell crosstalk. <i>Journal of Experimental Biology</i> , <b>2009</b> , 212, 1753-61	3	93
75	cAMP stimulates apical V-ATPase accumulation, microvillar elongation, and proton extrusion in kidney collecting duct A-intercalated cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2010</b> , 298, F643-54	4.3	91

74	The forkhead transcription factor Foxi1 is a master regulator of vacuolar H-ATPase proton pump subunits in the inner ear, kidney and epididymis. <i>PLoS ONE</i> , <b>2009</b> , 4, e4471	3.7	89
73	V-ATPase B1-subunit promoter drives expression of EGFP in intercalated cells of kidney, clear cells of epididymis and airway cells of lung in transgenic mice. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 288, C1134-44	5.4	85
72	A dense network of dendritic cells populates the murine epididymis. <i>Reproduction</i> , <b>2011</b> , 141, 653-63	3.8	84
71	Role of acid/base transporters in the male reproductive tract and potential consequences of their malfunction. <i>Physiology</i> , <b>2005</b> , 20, 417-28	9.8	82
70	Modulation of the actin cytoskeleton via gelsolin regulates vacuolar H <sup>+</sup> -ATPase recycling. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 8452-63	5.4	81
69	Expression of aquaporin 9 in the adult rat epididymal epithelium is modulated by androgens. <i>Biology of Reproduction</i> , <b>2002</b> , 66, 1716-22	3.9	79
68	Alkaline pH- and cAMP-induced V-ATPase membrane accumulation is mediated by protein kinase A in epididymal clear cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2008</b> , 294, C488-94	5.4	77
67	Expression of the 56-kDa B2 subunit isoform of the vacuolar H <sup>(+)</sup> -ATPase in proton-secreting cells of the kidney and epididymis. <i>American Journal of Physiology - Cell Physiology</i> , <b>2004</b> , 287, C149-62	5.4	75
66	CFTR interacts with ZO-1 to regulate tight junction assembly and epithelial differentiation through the ZONAB pathway. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 4396-408	5.3	73
65	Proton secretion in the male reproductive tract: involvement of Cl <sup>-</sup> -independent HCO <sup>-3</sup> transport. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 275, C1134-42	5.4	68
64	Localization of sodium bicarbonate cotransporter (NBC) protein and messenger ribonucleic acid in rat epididymis. <i>Biology of Reproduction</i> , <b>1999</b> , 60, 573-9	3.9	66
63	Mapping the H <sup>(+)</sup> (V)-ATPase interactome: identification of proteins involved in trafficking, folding, assembly and phosphorylation. <i>Scientific Reports</i> , <b>2015</b> , 5, 14827	4.9	65
62	cSrc is necessary for epididymal development and is incorporated into sperm during epididymal transit. <i>Developmental Biology</i> , <b>2012</b> , 369, 43-53	3.1	63
61	Association of soluble adenylyl cyclase with the V-ATPase in renal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2008</b> , 294, F130-8	4.3	63
60	Role of V-ATPase-rich cells in acidification of the male reproductive tract.. <i>Journal of Experimental Biology</i> , <b>1997</b> , 200, 257-262	3	62
59	Aquaporin 2 is a vasopressin-independent, constitutive apical membrane protein in rat vas deferens. <i>American Journal of Physiology - Cell Physiology</i> , <b>2000</b> , 278, C791-802	5.4	60
58	Role of NHERF1, cystic fibrosis transmembrane conductance regulator, and cAMP in the regulation of aquaporin 9. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 2986-96	5.4	57
57	Regulation of epithelial function, differentiation, and remodeling in the epididymis. <i>Asian Journal of Andrology</i> , <b>2016</b> , 18, 3-9	2.8	57

56	Renal intercalated cells sense and mediate inflammation via the P2Y14 receptor. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121419	3-7	53
55	Tetanus toxin-mediated cleavage of cellubrevin inhibits proton secretion in the male reproductive tract. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 278, F717-25	4-3	53
54	Role of V-ATPase-rich cells in acidification of the male reproductive tract. <i>Journal of Experimental Biology</i> , <b>1997</b> , 200, 257-62	3	53
53	Depletion of intercalated cells from collecting ducts of carbonic anhydrase II-deficient (CAR2 null) mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>1995</b> , 269, F761-74	4-3	51
52	Epithelial basal cells are distinct from dendritic cells and macrophages in the mouse epididymis. <i>Biology of Reproduction</i> , <b>2014</b> , 90, 90	3-9	50
51	Distribution of the vacuolar H <sup>+</sup> atpase along the rat and human male reproductive tract. <i>Biology of Reproduction</i> , <b>2001</b> , 64, 1699-707	3-9	50
50	Segmental and cellular expression of aquaporins in the male excurrent duct. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2006</b> , 1758, 1025-33	3-8	49
49	New insights into the dynamic regulation of water and acid-base balance by renal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 302, C1421-33	5-4	48
48	Role of purinergic signaling pathways in V-ATPase recruitment to apical membrane of acidifying epididymal clear cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 298, C817-30	5-4	46
47	Postnatal development of H <sup>+</sup> ATPase (proton-pump)-rich cells in rat epididymis. <i>Histochemistry and Cell Biology</i> , <b>1999</b> , 111, 97-105	2-4	45
46	Na <sup>+</sup> /H <sup>+</sup> -exchange activity and immunolocalization of NHE3 in rat epididymis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2001</b> , 280, F426-36	4-3	43
45	Immunolocalization of AE2 anion exchanger in rat and mouse epididymis. <i>Biology of Reproduction</i> , <b>1999</b> , 61, 973-80	3-9	43
44	Increased luminal pH in the epididymis of infertile c-ros knockout mice and the expression of sodium-hydrogen exchangers and vacuolar proton pump H <sup>+</sup> -ATPase. <i>Molecular Reproduction and Development</i> , <b>2004</b> , 68, 159-68	2-6	40
43	The MAPK/ERK-Signaling Pathway Regulates the Expression and Distribution of Tight Junction Proteins in the Mouse Proximal Epididymis. <i>Biology of Reproduction</i> , <b>2016</b> , 94, 22	3-9	38
42	Aquaporin 9 expression in the developing rat epididymis is modulated by steroid hormones. <i>Reproduction</i> , <b>2010</b> , 139, 613-21	3-8	37
41	ATP secretion in the male reproductive tract: essential role of CFTR. <i>Journal of Physiology</i> , <b>2012</b> , 590, 4209-22	3-9	36
40	Proteomic analysis of V-ATPase-rich cells harvested from the kidney and epididymis by fluorescence-activated cell sorting. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 298, C1326-42	5-4	36
39	Cadmium inhibits vacuolar H(+)ATPase-mediated acidification in the rat epididymis. <i>Biology of Reproduction</i> , <b>2000</b> , 63, 599-606	3-9	33

38	The cellular physiology of carbonic anhydrases. <i>JOP: Journal of the Pancreas</i> , <b>2001</b> , 2, 159-64	1.2	33
37	Plasticity of basal cells during postnatal development in the rat epididymis. <i>Reproduction</i> , <b>2013</b> , 146, 455-69	3.8	31
36	Regulation of vacuolar proton pumping ATPase-dependent luminal acidification in the epididymis. <i>Asian Journal of Andrology</i> , <b>2007</b> , 9, 476-82	2.8	31
35	Detection of CLC-3 and CLC-5 in epididymal epithelium: immunofluorescence and RT-PCR after LCM. <i>American Journal of Physiology - Cell Physiology</i> , <b>2003</b> , 284, C220-32	5.4	30
34	High-resolution helium ion microscopy of epididymal epithelial cells and their interaction with spermatozoa. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 929-37	4.4	29
33	Altered V-ATPase expression in renal intercalated cells isolated from B1 subunit-deficient mice by fluorescence-activated cell sorting. <i>American Journal of Physiology - Renal Physiology</i> , <b>2013</b> , 304, F522-32	4.3	26
32	Regulation of V-ATPase recycling via a RhoA- and ROCKII-dependent pathway in epididymal clear cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 301, C31-43	5.4	26
31	Potassium depletion increases proton pump (H(+)-ATPase) activity in intercalated cells of cortical collecting duct. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 279, F195-202	4.3	26
30	Role of testicular luminal factors on Basal cell elongation and proliferation in the mouse epididymis. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 9	3.9	25
29	Proinflammatory P2Y14 receptor inhibition protects against ischemic acute kidney injury in mice. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 3734-3749	15.9	25
28	Effect of cell swelling on membrane and cytoplasmic distribution of pICln. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C1545-51	5.4	22
27	Revisiting structure/functions of the human epididymis. <i>Andrology</i> , <b>2019</b> , 7, 748-757	4.2	19
26	Tyrosine kinase-mediated axial motility of basal cells revealed by intravital imaging. <i>Nature Communications</i> , <b>2016</b> , 7, 10666	17.4	18
25	Impaired male fertility and abnormal epididymal epithelium differentiation in mice lacking CRISP1 and CRISP4. <i>Scientific Reports</i> , <b>2018</b> , 8, 17531	4.9	18
24	Relative contribution of clear cells and principal cells to luminal pH in the mouse epididymis. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 366-375	3.9	17
23	Epithelial dynamics in the epididymis: role in the maturation, protection, and storage of spermatozoa. <i>Andrology</i> , <b>2019</b> , 7, 631-643	4.2	16
22	Extracellular Adenosine Stimulates Vacuolar ATPase-Dependent Proton Secretion in Medullary Intercalated Cells. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2018</b> , 29, 545-556	12.7	16
21	ROS1 signaling regulates epithelial differentiation in the epididymis. <i>Endocrinology</i> , <b>2014</b> , 155, 3661-73	4.8	14

20	Circulating aldosterone induces the apical accumulation of the proton pumping V-ATPase and increases proton secretion in clear cells in the caput epididymis. <i>American Journal of Physiology - Cell Physiology</i> , <b>2013</b> , 305, C436-46	5.4	14
19	Region-specific transcriptomic and functional signatures of mononuclear phagocytes in the epididymis. <i>Molecular Human Reproduction</i> , <b>2020</b> , 26, 14-29	4.4	14
18	Targeted deletion of the Ncoa7 gene results in incomplete distal renal tubular acidosis in mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, F173-F185	4.3	11
17	The expression patterns of aquaporin 9, vacuolar H-ATPase, and cytokeratin 5 in the epididymis of the common vampire bat. <i>Histochemistry and Cell Biology</i> , <b>2017</b> , 147, 39-48	2.4	11
16	Novel role of proton-secreting epithelial cells in sperm maturation and mucosal immunity. <i>Journal of Cell Science</i> , <b>2019</b> , 133,	5.3	10
15	Unravelling purinergic regulation in the epididymis: activation of V-ATPase-dependent acidification by luminal ATP and adenosine. <i>Journal of Physiology</i> , <b>2019</b> , 597, 1957-1973	3.9	9
14	Androgens are essential for epithelial cell recovery after efferent duct ligation in the initial segment of the mouse epididymis. <i>Biology of Reproduction</i> , <b>2020</b> , 102, 76-83	3.9	5
13	Pattern of protein expression in the epididymis of <i>Oligoryzomys nigripes</i> (Cricetidae, Sigmodontinae). <i>Cell and Tissue Research</i> , <b>2018</b> , 372, 135-147	4.2	5
12	From initial segment to cauda: a regional characterization of mouse epididymal CD11c mononuclear phagocytes based on immune phenotype and function. <i>American Journal of Physiology - Cell Physiology</i> , <b>2020</b> , 319, C997-C1010	5.4	3
11	Distribution pattern of ZO-1 and claudins in the epididymis of vampire bats. <i>Tissue Barriers</i> , <b>2020</b> , 8, 1779-1786	4.5	1
10	Reply to Edemir: Physiological regulation and single-cell RNA sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E351-E352	11.5	1
9	The MAPK/ERK signaling pathway regulates the expression and localization of Cx43 in mouse proximal epididymis. <i>Biology of Reproduction</i> , <b>2022</b> ,	3.9	1
8	Urinary UDP-Glucose as a Novel Actionable Biomarker of Dehydration-Induced Acute Kidney Injury. <i>Annals of Nutrition and Metabolism</i> , <b>2021</b> , 77 Suppl 4, 25-27	4.5	0
7	Localization of the gap junction protein, connexin 43, and E-cadherin/Cadherin-1 in the proximal mouse epididymis. <i>Molecular Reproduction and Development</i> , <b>2015</b> , 82, 723-723	2.6	
6	Protein Kinase A (PKA) Regulates Vacuolar H <sup>+</sup> -ATPase (V-ATPase) Recycling in Epididymal Clear Cells. <i>FASEB Journal</i> , <b>2007</b> , 21, A1337	0.9	
5	Expression and Functional Role of the Bradykinin Type 2 Receptor in Epididymal Principal Cells. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 124-124	3.9	
4	Regulation of vacuolar H <sup>+</sup> -ATPase (V-ATPase) recycling via a RhoA-dependent pathway in epididymal clear cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 796.16	0.9	
3	Purinergic receptors in mouse and rat epididymis : Role of luminal ATP and adenosine in V-ATPase activation. <i>FASEB Journal</i> , <b>2009</b> , 23, 998.37	0.9	

- 2 Actin cytoskeleton remodeling by RhoA and ROCKII regulates vacuolar H<sup>+</sup>-ATPase (V-ATPase) recycling in epididymal clear cells. *FASEB Journal*, **2010**, 24, 1002.10 0.9
- 1 Regulation of Vacuolar H<sup>+</sup>-ATPase (V-ATPase) Recycling Via a RhoA- and ROCKII-Dependent Pathway in Epididymal Clear Cells.. *Biology of Reproduction*, **2010**, 83, 87-87 3.9