

Markus Ritter

List of Publications by Year in descending order

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130
papers

7,959
citations

147726

31
h-index

56687

83
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135
all docs

135
docs citations

135
times ranked

10394
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for the Formation of Symmetric and Asymmetric DLPC-DAPC Lipid Bilayer Domains. Cellular Physiology and Biochemistry, 2013, 32, 46-52.	1.1	2,686
2	Functional Significance of Cell Volume Regulatory Mechanisms. Physiological Reviews, 1998, 78, 247-306.	13.1	1,706
3	Ion Channels in Cell Proliferation and Apoptotic Cell Death. Journal of Membrane Biology, 2005, 205, 147-157.	1.0	286
4	Cell Volume in the Regulation of Cell Proliferation and Apoptotic Cell Death. Cellular Physiology and Biochemistry, 2000, 10, 417-428.	1.1	222
5	Cell Volume Regulatory Ion Channels in Cell Proliferation and Cell Death. Methods in Enzymology, 2007, 428, 209-225.	0.4	174
6	Ca ²⁺ channel blockers reverse iron overload by a new mechanism via divalent metal transporter-1. Nature Medicine, 2007, 13, 448-454.	15.2	145
7	Mechanisms Sensing and Modulating Signals Arising From Cell Swelling. Cellular Physiology and Biochemistry, 2002, 12, 235-258.	1.1	126
8	Hepatorenal reflex regulating kidney function. Hepatology, 1991, 14, 590-594.	3.6	117
9	Molecular and functional aspects of anionic channels activated during regulatory volume decrease in mammalian cells*. Pflügers Archiv European Journal of Physiology, 2002, 444, 1-25.	1.3	103
10	Ion Channels and Cell Volume in Regulation of Cell Proliferation and Apoptotic Cell Death. , 2006, 152, 142-160.		86
11	Antisense oligonucleotides suppress cell-volume-induced activation of chloride channels. Pflügers Archiv European Journal of Physiology, 1995, 430, 464-470.	1.3	84
12	Effect of inhibitors of Na ⁺ /H ⁺ -exchange and gastric H ⁺ /K ⁺ ATPase on cell volume, intracellular pH and migration of human polymorphonuclear leucocytes. British Journal of Pharmacology, 1998, 124, 627-638.	2.7	74
13	Na ⁺ /H ⁺ Exchangers: Linking Osmotic Dysequilibrium to Modified Cell Function. Cellular Physiology and Biochemistry, 2001, 11, 1-18.	1.1	68
14	Quercetin Stimulates Insulin Secretion and Reduces the Viability of Rat INS-1 Beta-Cells. Cellular Physiology and Biochemistry, 2016, 39, 278-293.	1.1	65
15	Altered cell volume regulation in ras oncogene expressing NIH fibroblasts. Pflügers Archiv European Journal of Physiology, 1992, 420, 424-427.	1.3	55
16	Cell Swelling Stimulates Cytosol to Membrane Transposition of ICln. Journal of Biological Chemistry, 2003, 278, 50163-50174.	1.6	55
17	Hydroperoxide metabolism in rat liver. K ⁺ channel activation, cell volume changes and eicosanoid formation. FEBS Journal, 1993, 211, 449-458.	0.2	51
18	The Biological Significance of Cell Volume. Kidney and Blood Pressure Research, 1993, 16, 48-65.	0.9	48

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19	Antracene-9-carboxylic acid inhibits renal chloride reabsorption. Pflugers Archiv European Journal of Physiology, 1983, 398, 172-174.	1.3	46
20	Cell Volume Regulatory Ion Transport in the Regulation of Cell Migration. , 2006, 152, 161-180.		46
21	Hepatorenal reflex regulating kidney function. Hepatology, 1991, 14, 590-594.	3.6	45
22	Thiazide-sensitive NaCl-cotransporter in the Intestine. Journal of Biological Chemistry, 2005, 280, 19902-19910.	1.6	39
23	Fast Fluorometric Method for Measuring Pendrin (SLC26A4) Cl ⁻ /I ⁻ Transport Activity. Cellular Physiology and Biochemistry, 2006, 18, 67-74.	1.1	38
24	Characterization of ions at Alpine waterfalls. Atmospheric Chemistry and Physics, 2012, 12, 3687-3697.	1.9	38
25	Functional Characterization of Wild-Type and a Mutated Form of SLC26A4 Identified in a Patient with Pendred Syndrome. Cellular Physiology and Biochemistry, 2006, 17, 245-256.	1.1	37
26	Modification of Cellular Ion Transport by the Ha-ras Oncogene: Steps towards Malignant Transformation. Cellular Physiology and Biochemistry, 1996, 6, 245-270.	1.1	36
27	Insight into the Structure-Function Relation of Chloride Channels. Cellular Physiology and Biochemistry, 1993, 3, 374-387.	1.1	35
28	ICln159 Folds into a Pleckstrin Homology Domain-like Structure. Journal of Biological Chemistry, 2005, 280, 31276-31282.	1.6	34
29	Antiviral Drugs from the Nucleoside Analog Family Block Volume-Activated Chloride Channels. Molecular Medicine, 1995, 1, 407-417.	1.9	33
30	Functional reconstitution of ICln in lipid bilayers. Pflugers Archiv European Journal of Physiology, 2000, 440, 100-115.	1.3	33
31	Resveratrol Inhibits Electrical Activity and Insulin Release from Insulinoma Cells by Block of Voltage-Gated Ca ²⁺ Channels and Swelling-Dependent Cl ⁻ Currents. Cellular Physiology and Biochemistry, 2008, 22, 567-578.	1.1	33
32	Glucose Induces Anion Conductance and Cytosol-To-Membrane Transposition of ICln in INS-1E Rat Insulinoma Cells. Cellular Physiology and Biochemistry, 2006, 18, 21-34.	1.1	32
33	Extracts from Leonurus sibiricus L. increase insulin secretion and proliferation of rat INS-1E insulinoma cells. Journal of Ethnopharmacology, 2013, 150, 85-94.	2.0	32
34	Intrinsically Active and Pacemaker Neurons in Pluripotent Stem Cell-Derived Neuronal Populations. Stem Cell Reports, 2014, 2, 323-336.	2.3	32
35	Effect of the AMP-Kinase Modulators AICAR, Metformin and Compound C on Insulin Secretion of INS-1E Rat Insulinoma Cells under Standard Cell Culture Conditions. Cellular Physiology and Biochemistry, 2012, 29, 75-86.	1.1	31
36	H ₂ O ₂ -dependent translocation of TCTP into the nucleus enables its interaction with VDR in human keratinocytes: TCTP as a further module in calcitriol signalling. Journal of Steroid Biochemistry and Molecular Biology, 2010, 118, 29-40.	1.2	30

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37	Green exercise and mg-ca-SO ₄ thermal balneotherapy for the treatment of non-specific chronic low back pain: a randomized controlled clinical trial. BMC Musculoskeletal Disorders, 2019, 20, 221.	0.8	29
38	Further characterization of volume regulatory decrease in cultured renal epitheloid (MDCK) cells. Pflugers Archiv European Journal of Physiology, 1991, 418, 35-39.	1.3	27
39	Caffeine Inhibits Suicidal Erythrocyte Death. Cellular Physiology and Biochemistry, 2008, 22, 253-260.	1.1	26
40	Ethanol Inhibits Gastric Acid Secretion in Rats Through Increased AMP-Kinase Activity. Cellular Physiology and Biochemistry, 2010, 25, 195-202.	1.1	26
41	Structure and Function of the Ion Channel ICl _n . Cellular Physiology and Biochemistry, 2000, 10, 329-334.	1.1	25
42	ICl _n Ion Channel Splice Variants in Caenorhabditis elegans. Journal of Biological Chemistry, 2002, 277, 4435-4445.	1.6	25
43	Expression of the Non-gastric H ⁺ /K ⁺ ATPase ATP12A in Normal and Pathological Human Prostate Tissue. Cellular Physiology and Biochemistry, 2011, 28, 1287-1294.	1.1	25
44	Effects of Ionized Waterfall Aerosol on Pediatric Allergic Asthma. Journal of Asthma, 2012, 49, 830-838.	0.9	25
45	Ion Channels in Madin-Darby Canine Kidney Cells. Kidney and Blood Pressure Research, 1990, 13, 82-93.	0.9	24
46	Cell shrinkage stimulates bradykinin-induced cell membrane potential oscillations in NIH 3T3 fibroblasts expressing the ras-oncogene. Pflugers Archiv European Journal of Physiology, 1993, 423, 221-224.	1.3	24
47	Effects of urea on K ⁺ fluxes and cell volume in perfused rat liver. Pflugers Archiv European Journal of Physiology, 1994, 428, 552-560.	1.3	24
48	The role of calcium in cell shrinkage and intracellular alkalinization by bradykinin in Ha-ras oncogene expressing cells. FEBS Letters, 1993, 322, 261-265.	1.3	23
49	Fixation, Mounting and Sealing with Nail Polish of Cell Specimens Lead to Incorrect FRET Measurements using Acceptor Photobleaching. Cellular Physiology and Biochemistry, 2008, 21, 489-498.	1.1	23
50	Does waterfall aerosol influence mucosal immunity and chronic stress? A randomized controlled clinical trial. Journal of Physiological Anthropology, 2017, 36, 10.	1.0	23
51	Ferroptosis in Hepatocellular Carcinoma: Mechanisms, Drug Targets and Approaches to Clinical Translation. Cancers, 2022, 14, 1826.	1.7	23
52	The ICl _n interactome. Acta Physiologica, 2006, 187, 43-49.	1.8	22
53	Effect of combined Low-Dose Radon- and Hyperthermia Treatment (LDRnHT) of patients with ankylosing spondylitis on serum levels of cytokines and bone metabolism markers: a pilot study. International Journal of Low Radiation, 2010, 7, 423.	0.1	22
54	Radon balneotherapy and physical activity for osteoporosis prevention: a randomized, placebo-controlled intervention study. Radiation and Environmental Biophysics, 2015, 54, 123-136.	0.6	22

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55	The Cancer Stem Cell Inhibitor Napabucasin (BBI608) Shows General Cytotoxicity in Biliary Tract Cancer Cells and Reduces Cancer Stem Cell Characteristics. <i>Cancers</i> , 2019, 11, 276.	1.7	22
56	Activation of cell membrane potassium conductance by mercury in cultured renal epitheloid (MDCK) cells. <i>Journal of Cellular Physiology</i> , 1991, 146, 25-33.	2.0	21
57	Effects of bradykinin on cell volume and intracellular pH in NIH 3T3 fibroblasts expressing the ras oncogene. <i>FEBS Letters</i> , 1992, 307, 367-370.	1.3	21
58	From Pinocytosis to Methuosisâ€”Fluid Consumption as a Risk Factor for Cell Death. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 651982.	1.8	21
59	Blockade of swellingâ€”induced chloride channels by phenol derivatives. <i>British Journal of Pharmacology</i> , 1996, 118, 41-48.	2.7	20
60	Membrane Thickness Changes Ion-Selectivity of Channel-Proteins. <i>Cellular Physiology and Biochemistry</i> , 2004, 14, 231-240.	1.1	20
61	Hypotonicity and ethanol modulate BK channel activity and chloride currents in GH4/C1 pituitary tumour cells. <i>Acta Physiologica</i> , 2006, 187, 51-59.	1.8	20
62	In Vitro Cell Death Discrimination and Screening Method by Simple and Cost-Effective Viability Analysis. <i>Cellular Physiology and Biochemistry</i> , 2017, 41, 1011-1019.	1.1	20
63	Doseâ€”Dependent Cannabidiolâ€”Induced Elevation of Intracellular Calcium and Apoptosis in Human Articular Chondrocytes. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2540-2549.	1.2	20
64	Cellular mechanisms of bradykinin-induced hyperpolarization in renal epitheloid MDCK-cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1073, 600-608.	1.1	19
65	The histone methyltransferase G9a: a new therapeutic target in biliary tract cancer. <i>Human Pathology</i> , 2018, 72, 117-126.	1.1	19
66	ICln channels reconstituted in heart-lipid bilayer are selective to chloride. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 443, 748-753.	1.3	18
67	The expression of wild-type pendrin (SLC26A4) in human embryonic kidney (HEK 293 Phoenix) cells leads to the activation of cationic currents. <i>European Journal of Endocrinology</i> , 2005, 153, 693-699.	1.9	18
68	Acid- and Volume-Sensitive Chloride Currents in Human Chondrocytes. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 583131.	1.8	18
69	LSm4 Associates with the Plasma Membrane and Acts as a Co-factor in Cell Volume Regulation. <i>Cellular Physiology and Biochemistry</i> , 2008, 22, 579-590.	1.1	17
70	The Phytostilbene Resveratrol Induces Apoptosis in INS-1E Rat Insulinoma Cells. <i>Cellular Physiology and Biochemistry</i> , 2009, 23, 245-254.	1.1	17
71	HDAC Screening Identifies the HDAC Class I Inhibitor Romidepsin as a Promising Epigenetic Drug for Biliary Tract Cancer. <i>Cancers</i> , 2021, 13, 3862.	1.7	17
72	Effects of inhibitors and ion substitutions on oscillations of cell membrane potential in cells expressing the RAS oncogene. <i>Pflugers Archiv European Journal of Physiology</i> , 1992, 421, 416-424.	1.3	16

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73	Chloride Channel Blockers Suppress Formation of Engulfment Pseudopodia in Microglial Cells. Cellular Physiology and Biochemistry, 2013, 31, 319-337.	1.1	16
74	The gastric H,K-ATPase blocker lansoprazole is an inhibitor of chloride channels. British Journal of Pharmacology, 2000, 129, 598-604.	2.7	14
75	Relevance of MicroRNA200 Family and MicroRNA205 for Epithelial to Mesenchymal Transition and Clinical Outcome in Biliary Tract Cancer Patients. International Journal of Molecular Sciences, 2016, 17, 2053.	1.8	14
76	Acid- and Volume-Sensitive Chloride Currents in Microglial Cells. International Journal of Molecular Sciences, 2019, 20, 3475.	1.8	14
77	Long Non-Coding RNAs in Biliary Tract Cancer – An Up-to-Date Review. Journal of Clinical Medicine, 2020, 9, 1200.	1.0	14
78	Determination of cell membrane resistance in cultured renal epithelioid (MDCK) cells: effects of cadmium and mercury ions. Pflugers Archiv European Journal of Physiology, 1990, 417, 29-36.	1.3	13
79	Simvastatin Inhibits Malignant Transformation Following Expression of the <i>Ha-ras</i> Oncogene in NIH 3T3 Fibroblasts. Cellular Physiology and Biochemistry, 2002, 12, 19-30.	1.1	13
80	Biliary tract cancer stem cells - translational options and challenges. World Journal of Gastroenterology, 2017, 23, 2470.	1.4	13
81	Effects of HOE 694 – a novel inhibitor of Na ⁺ /H ⁺ exchange – on NIH 3T3 fibroblasts expressing the RAS oncogene. European Journal of Pharmacology, 1993, 246, 269-273.	2.7	12
82	The Putative Role of the Non-Gastric H ⁺ /K ⁺ -ATPase ATP12A (ATP1A1) as Anti-Apoptotic Ion Transporter: Effect of the H ⁺ /K ⁺ -ATPase Inhibitor SCH28080 on Butyrate-Stimulated Myelomonocytic HL-60 Cells. Cellular Physiology and Biochemistry, 2014, 34, 1507-1526.	1.1	12
83	Glycine Induces Migration of Microglial BV-2 Cells via SNAT-Mediated Cell Swelling. Cellular Physiology and Biochemistry, 2018, 50, 1460-1473.	1.1	12
84	Regulation of potassium conductance by prostaglandins in cultured renal epithelioid (Madin-Darby) Tj ETQqO O O rgBT /Overlock 10 Tf 50	1.3	11
85	Cell Volume Regulatory Ion Transport in Cell Migration. , 1998, 123, 135-157.		11
86	Effect of Glycine on BV-2 Microglial Cells Treated with Interferon- β and Lipopolysaccharide. International Journal of Molecular Sciences, 2020, 21, 804.	1.8	11
87	Calcium Entry Stimulated by Swelling of Madin-Darby Canine Kidney Cells. Nephron, 1996, 74, 150-157.	0.6	10
88	Involvement of Cyclic Adenosine Monophosphate-Dependent Protein Kinase A and Pertussis Toxin-Sensitive G Proteins in the Migratory Response of Human CD14 ⁺ Mononuclear Cells to Katalcain. Journal of Bone and Mineral Research, 2002, 17, 1872-1882.	3.1	10
89	A New Gene-finding Tool. Journal of Biological Chemistry, 2004, 279, 7136-7146.	1.6	10
90	Glycine modulates membrane potential, cell volume, and phagocytosis in murine microglia. Amino Acids, 2014, 46, 1907-1917.	1.2	10

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91	Effect of bradykinin, ATP and adrenaline on cell membrane resistances of Madin-Darby canine kidney cells.. Journal of Physiology, 1991, 443, 45-54.	1.3	9
92	Structure-Function Relation of a Cloned Epithelial Chloride Channel. Kidney and Blood Pressure Research, 1994, 17, 148-152.	0.9	9
93	Effects of bradykinin on NIH 3T3 fibroblasts pretreated with lithium. Biochimica Et Biophysica Acta - Molecular Cell Research, 1997, 1358, 23-30.	1.9	9
94	Determination of Protein-Protein Interactions of ICl _n by the Yeast Two-Hybrid System. Cellular Physiology and Biochemistry, 2001, 11, 55-60.	1.1	9
95	Hypoxia Inhibits Colonic Ion Transport via Activation of AMP Kinase. Annals of Surgery, 2011, 254, 957-963.	2.1	9
96	Vacuolar-type H ⁺ -ATPase-mediated proton transport in the rat parietal cell. Pflugers Archiv European Journal of Physiology, 2012, 463, 419-427.	1.3	9
97	Ion Transport in the Regulation of Cell Proliferation in ras Oncogene Expressing 3T3 NIH Fibroblasts. Cellular Physiology and Biochemistry, 1992, 2, 213-224.	1.1	8
98	Miniaturization of the Clonogenic Assay Using Confluence Measurement. International Journal of Molecular Sciences, 2018, 19, 724.	1.8	8
99	Differential expression of GHRH receptor and its splice variant 1 in human normal and malignant mucosa of the oesophagus and colon. International Journal of Oncology, 2008, ,	1.4	7
100	Endogenous anandamide and self-reported pain are significantly reduced after a 2-week multimodal treatment with and without radon therapy in patients with knee osteoarthritis: a pilot study. International Journal of Biometeorology, 2021, 65, 1151-1160.	1.3	7
101	A Swelling-Activated Chloride Current in Microglial Cells is Suppressed by Epac and Facilitated by PKA " Impact on Phagocytosis. Cellular Physiology and Biochemistry, 2019, 52, 951-969.	1.1	7
102	Vesicular pH Is Sensitive to Changes in Cell Volume. Cellular Physiology and Biochemistry, 1997, 7, 25-34.	1.1	5
103	Sequence-specific resonance assignments of ICl _n , an ion channel cloned from epithelial cells. Journal of Biomolecular NMR, 2003, 27, 399-400.	1.6	5
104	K16 is a further new candidate for homotypic intermediate filament protein interactions. Experimental Dermatology, 2010, 19, e241-50.	1.4	5
105	Ic _n , An Ion Channel-Forming Protein Associated with Cell Volume Regulation. Experimental Physiology, 1999, 84, 1023-1031.	0.9	4
106	Quaternary Structure Assessment of ICl _n by Fluorescence Resonance Energy Transfer (FRET) <i>in vivo</i> . Cellular Physiology and Biochemistry, 2009, 23, 397-406.	1.1	4
107	The H ⁺ /K ⁺ ATPase Inhibitor SCH-28080 Inhibits Insulin Secretion and Induces Cell Death in INS-1E Rat Insulinoma Cells. Cellular Physiology and Biochemistry, 2017, 43, 1037-1051.	1.1	4
108	Update on the role and therapeutic potential of polycomb repressive complexes in (biliary tract) cancer. Expert Opinion on Therapeutic Targets, 2018, 22, 1-3.	1.5	4

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109	Radon-therapy in ankylosing spondylitis reduces auto-antibody titers. Open Journal of Molecular and Integrative Physiology, 2011, 01, 52-54.	0.6	4
110	Low pH Attenuates Apoptosis by Suppressing the Volume-Sensitive Outwardly Rectifying (VSOR) Chloride Current in Chondrocytes. Frontiers in Cell and Developmental Biology, 2021, 9, 804105.	1.8	4
111	Further Studies on the Nature of Cell Membrane Potential Oscillations in NIH 3T3 Fibroblasts Expressing the Ras Oncogene. Cellular Physiology and Biochemistry, 1993, 3, 89-96.	1.1	3
112	The Promoter for Constitutive Expression of the Human ICln Gene CLNS1A. Journal of Biological Chemistry, 2000, 275, 15613-15620.	1.6	3
113	Effects of Low-Dose Radon Therapy Applied Under Hyperthermic Conditions (RnHT) on Inflammatory and Non- Inflammatory Degenerative Disease Conditions. , 0, , .		3
114	A simple method for multiple fluid exchange. Pflugers Archiv European Journal of Physiology, 1989, 415, 241-243.	1.3	1
115	Continuous, label-free, 96-well-based determination of cell migration using confluence measurement. Cell Adhesion and Migration, 2019, 13, 76-82.	1.1	1
116	HDAC Screening identifies the HDAC Class I Inhibitor Romidepsin as a promising Epigenetic Drug for Biliary Tract Cancer. FASEB Journal, 2021, 35, .	0.2	1
117	Editorial: Ion and Water Transport in Cell Death. Frontiers in Cell and Developmental Biology, 2021, 9, 757033.	1.8	1
118	Functional reconstitution of ICln in lipid bilayers. Pflugers Archiv European Journal of Physiology, 2000, 440, 100.	1.3	1
119	Further Characterization of the Nematode IClnN2 Protein Reconstituted in Lipid Bilayers. , 2004, 559, 245-251.		0
120	Cell Volume-Induced Hormone Secretion: Signal Transduction and Specificity. Neurophysiology, 2005, 37, 159-162.	0.2	0
121	Probing of the ICln Channel Pore by Cysteine Mutagenesis and Cadmium-Block. , 2004, 559, 99-108.		0
122	W1541 Reduction of Dietary Zinc Leads to Hypersecretion of Acid via a Novel Pathway. Gastroenterology, 2009, 136, A-687-A-688.	0.6	0
123	Su1617 Dopamine Can Directly Inhibit Gastric Acid Secretion. Gastroenterology, 2012, 142, S-465.	0.6	0
124	391 The Role of Calcium-Activated Chloride Channels (CaCCs) in the Process of Gastric Acid Secretion. Gastroenterology, 2012, 142, S-86.	0.6	0
125	Cartilage marker plots for monitoring of osteoarthritis patients. a pilot study. Osteoarthritis and Cartilage, 2018, 26, S328.	0.6	0
126	OP0324 CANNABIDIOL ELEVATES INTRACELLULAR CALCIUM AND INDUCES APOPTOSIS IN HUMAN ARTICULAR CHONDROCYTES. , 2019, , .		0

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127	HDAC-targeting epigenetic drug screening for biliary tract cancer. Annals of Hepato-biliary-pancreatic Surgery, 2021, 25, S397-S397.	0.1	0
128	Die Nutzung natürlicher Gesundheitsressourcen. , 2011, , 185-218.		0
129	Physiologie und Pathophysiologie der Nieren und Harnleiter. , 2016, , 253-292.		0
130	Change in Metabolomic Profile Associated with an Average Increase in Plain Water Intake of >+1 L/day, Sustained over 4 Weeks, in Healthy Young Men with Initial Total Water Intake below 2 L/day. FASEB Journal, 2022, 36, .	0.2	0