

M Leigh Ackland

List of Publications by Year in descending order

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107
papers

4,930
citations

101543

36
h-index

98798

67
g-index

111
all docs

111
docs citations

111
times ranked

6939
citing authors

#	ARTICLE	IF	CITATIONS
1	Epithelialâ€”mesenchymal and mesenchymalâ€”epithelial transitions in carcinoma progression. <i>Journal of Cellular Physiology</i> , 2007, 213, 374-383.	4.1	957
2	Multicellular spheroids in ovarian cancer metastases: Biology and pathology. <i>Gynecologic Oncology</i> , 2009, 113, 143-148.	1.4	336
3	Cross talk of signals between EGFR and IL-6R through JAK2/STAT3 mediate epithelialâ€”mesenchymal transition in ovarian carcinomas. <i>British Journal of Cancer</i> , 2009, 100, 134-144.	6.4	272
4	Strategies for enhancing the phytoremediation of cadmium-contaminated agricultural soils by <i>Solanum nigrum</i> L. <i>Environmental Pollution</i> , 2011, 159, 762-768.	7.5	141
5	Epidermal Growth Factor-Induced Epithelio-Mesenchymal Transition in Human Breast Carcinoma Cells. <i>Laboratory Investigation</i> , 2003, 83, 435-448.	3.7	126
6	Altered copper metabolism in cultured cells from human Menkes' syndrome and mottled mouse mutants. <i>Biochemical Genetics</i> , 1980, 18, 117-131.	1.7	120
7	β 2 β 1 integrin affects metastatic potential of ovarian carcinoma spheroids by supporting disaggregation and proteolysis. <i>Journal of Carcinogenesis</i> , 2007, 6, 11.	2.5	103
8	A mechanism for epithelialâ€”mesenchymal transition and anoikis resistance in breast cancer triggered by zinc channel ZIP6 and STAT3 (signal transducer and activator of transcription 3). <i>Biochemical Journal</i> , 2013, 455, 229-237.	3.7	102
9	Intracellular zinc homeostasis in leukocyte subsets is regulated by different expression of zinc exporters ZnT-1 to ZnT-9. <i>Journal of Leukocyte Biology</i> , 2008, 83, 368-380.	3.3	101
10	Zinc deficiency and its inherited disorders -a review. <i>Genes and Nutrition</i> , 2006, 1, 41-49.	2.5	97
11	Zinc and infant nutrition. <i>Archives of Biochemistry and Biophysics</i> , 2016, 611, 51-57.	3.0	87
12	Copper is taken up efficiently from albumin and β 2-macroglobulin by cultured human cells by more than one mechanism. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C708-C721.	4.6	86
13	Lubricin: A versatile, biological anti-adhesive with properties comparable to polyethylene glycol. <i>Biomaterials</i> , 2015, 53, 127-136.	11.4	81
14	Induction of epithelial to mesenchymal transition in PMC42-LA human breast carcinoma cells by carcinoma-associated fibroblast secreted factors. <i>Breast Cancer Research</i> , 2007, 9, R19.	5.0	80
15	Microbial nanowires: an electrifying tale. <i>Microbiology (United Kingdom)</i> , 2016, 162, 2017-2028.	1.8	78
16	Defining the E-Cadherin Repressor Interactome in Epithelial-Mesenchymal Transition: The PMC42 Model as a Case Study. <i>Cells Tissues Organs</i> , 2011, 193, 23-40.	2.3	72
17	Synergistic antiproliferative action of the flavonols quercetin and kaempferol in cultured human cancer cell lines. <i>In Vivo</i> , 2005, 19, 69-76.	1.3	71
18	Constitutive expression of hZnT4 zinc transporter in human breast epithelial cells. <i>Biochemical Journal</i> , 2002, 364, 105-113.	3.7	67

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19	Mammalian copper-transporting P-type ATPases, ATP7A and ATP7B: Emerging roles. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 206-209.	2.8	67
20	Tissue Nonspecific Alkaline Phosphatase Is Activated via a Two-step Mechanism by Zinc Transport Complexes in the Early Secretory Pathway. <i>Journal of Biological Chemistry</i> , 2011, 286, 16363-16373.	3.4	60
21	Contribution of Fibroblast and Mast Cell (Afferent) and Tumor (Efferent) IL-6 Effects within the Tumor Microenvironment. <i>Cancer Microenvironment</i> , 2012, 5, 83-93.	3.1	59
22	Hormonal regulation of the Menkes and Wilson copper-transporting ATPases in human placental Jeg-3 cells. <i>Biochemical Journal</i> , 2007, 402, 241-250.	3.7	56
23	Zinc and Zinc Transporters in Macrophages and Their Roles in Efferocytosis in COPD. <i>PLoS ONE</i> , 2014, 9, e110056.	2.5	54
24	Defective localization of the Wilson disease protein (ATP7B) in the mammary gland of the toxic milk mouse and the effects of copper supplementation. <i>Biochemical Journal</i> , 2000, 352, 565-571.	3.7	52
25	Analysis of zinc transporter, hZnT4 (Slc30A4), gene expression in a mammary gland disorder leading to reduced zinc secretion into milk. <i>Human Genetics</i> , 2003, 113, 202-210.	3.8	51
26	Annetocin and TCTP expressions in the earthworm <i>Eisenia fetida</i> exposed to PAHs in artificial soil. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 566-573.	6.0	48
27	Epidermal growth factor-induced ovarian carcinoma cell migration is associated with JAK2/STAT3 signals and changes in the abundance and localization of β 1 integrin. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1034-1045.	2.8	47
28	Distinct Functional Roles for the Menkes and Wilson Copper Translocating P-type ATPases in Human Placental Cells. <i>Cellular Physiology and Biochemistry</i> , 2007, 20, 1073-1084.	1.6	45
29	Effects of Zinc and DHA on the Epigenetic Regulation of Human Neuronal Cells. <i>Cellular Physiology and Biochemistry</i> , 2012, 29, 87-98.	1.6	45
30	The Murine Mutation, Lethal Milk, Results in Production of Zinc-Deficient Milk. <i>Journal of Nutrition</i> , 1992, 122, 1214-1218.	2.9	44
31	Zinc intake and status in Australian vegetarians. <i>British Journal of Nutrition</i> , 2000, 83, 27-33.	2.3	42
32	Peanut Allergens Alter Intestinal Barrier Permeability and Tight Junction Localisation in Caco-2 Cell Cultures. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 1758-1777.	1.6	42
33	Expression and Localization of Menkes and Wilson Copper Transporting ATPases in Human Placenta. <i>Placenta</i> , 2004, 25, 512-517.	1.5	41
34	ATP7B Expression in Human Breast Epithelial Cells Is Mediated by Lactational Hormones. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 389-399.	2.5	41
35	PMC42, A Novel Model for the Differentiated Human Breast. <i>Experimental Cell Research</i> , 2001, 263, 14-22.	2.6	38
36	Expression of Menkes disease gene in mammary carcinoma cells. <i>Biochemical Journal</i> , 1997, 328, 237-243.	3.7	37

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37	Perinatal $\hat{\text{A}}\text{-}3$ polyunsaturated fatty acid supply modifies brain zinc homeostasis during adulthood. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7133-7138.	7.1	37
38	Apoptosis may underlie the pathology of zinc-deficient skin. Immunology and Cell Biology, 2006, 84, 28-37.	2.3	36
39	Comparative analyses of cadmium and zinc uptake correlated with changes in natural resistance-associated macrophage protein (NRAMP) expression in <i>Solanum nigrum</i> L. and <i>Brassica rapa</i> . Environmental Chemistry, 2014, 11, 653.	1.5	34
40	Expression of Menkes Copper-transporting ATPase, MNK, in the Lactating Human Breast: Possible Role in Copper Transport into Milk. Journal of Histochemistry and Cytochemistry, 1999, 47, 1553-1561.	2.5	33
41	Inquisition of <i>Microcystis aeruginosa</i> and <i>Synechocystis</i> nanowires: characterization and modelling. Antonie Van Leeuwenhoek, 2015, 108, 1213-1225.	1.7	32
42	Significance of extracellular zinc-binding ligands in the uptake of zinc by human fibroblasts. Journal of Cellular Physiology, 1990, 145, 409-413.	4.1	31
43	Bioinformatic and Expression Analyses of Genes Mediating Zinc Homeostasis in <i>Nostoc punctiforme</i> . Applied and Environmental Microbiology, 2009, 75, 784-791.	3.1	31
44	Multivitamin supplementation improves nutritional status and bone quality in aged care residents. European Journal of Clinical Nutrition, 2009, 63, 558-565.	2.9	31
45	Studies on the mechanism of zinc uptake by human fibroblasts. Journal of Cellular Physiology, 1988, 135, 521-526.	4.1	30
46	Expression, Localisation and Hormone Regulation of the Human Copper Transporter hCTR1 in Placenta and Choriocarcinoma Jeg-3 Cells. Placenta, 2006, 27, 968-977.	1.5	29
47	Diesel exhaust particulate matter induces multinucleate cells and zinc transporter-dependent apoptosis in human airway cells. Immunology and Cell Biology, 2007, 85, 617-622.	2.3	28
48	Anthropometric and biochemical markers for nutritional risk among residents within an Australian residential care facility. Asia Pacific Journal of Clinical Nutrition, 2007, 16, 178-86.	0.4	28
49	The omega-3 fatty acid, DHA, decreases neuronal cell death in association with altered zinc transport. FEBS Letters, 2010, 584, 612-618.	2.8	27
50	Fresh and cultured buccal cells as a source of mRNA and protein for molecular analysis. BioTechniques, 2004, 37, 262-269.	1.8	25
51	Albumin has no role in the uptake of copper by human fibroblasts. Journal of Inorganic Biochemistry, 1987, 31, 123-131.	3.5	24
52	Toxoplasma gondii antibody in domestic cats in Melbourne. Australian Veterinary Journal, 1999, 77, 447-449.	1.1	24
53	Physiological metal uptake by <i>Nostoc punctiforme</i> . BioMetals, 2012, 25, 893-903.	4.1	24
54	Epigenetic Markers to Predict Conversion From Gestational Diabetes to Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 2396-2404.	3.6	24

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55	Metallothionein isoform expression by breast cancer cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2000, 32, 895-903.	2.8	23
56	Nutritional and Functional Status Indicators in Residents of a Long-Term Care Facility. <i>Journal of Nutrition in Gerontology and Geriatrics</i> , 2009, 28, 47-60.	1.0	23
57	Nuts &™&™ guts: transport of food allergens across the intestinal epithelium. <i>Asia Pacific Allergy</i> , 2013, 3, 257-265.	1.3	23
58	Studies of Developing Human Hair Shaft Cells In Vitro. <i>Journal of Investigative Dermatology</i> , 1988, 90, 58-64.	0.7	22
59	Defective localization of the Wilson disease protein (ATP7B) in the mammary gland of the toxic milk mouse and the effects of copper supplementation. <i>Biochemical Journal</i> , 2000, 352, 565.	3.7	22
60	Biochemical Responses of Earthworm <i>Eisenia fetida</i> Exposed to Cadmium-Contaminated Soil with Long Duration. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012, 89, 1148-1153.	2.7	22
61	Cation-dependent uptake of zinc in human fibroblasts. <i>BioMetals</i> , 1996, 9, 29-37.	4.1	20
62	Apical Localization of Zinc Transporter ZnT4 in Human Airway Epithelial Cells and Its Loss in a Murine Model of Allergic Airway Inflammation. <i>Nutrients</i> , 2011, 3, 910-928.	4.1	20
63	Composition, sources, and potential toxicology of polycyclic aromatic hydrocarbons (PAHs) in agricultural soils in Liaoning, People's Republic of China. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 2231-2241.	2.7	20
64	Copper transport during lactation in transgenic mice expressing the human ATP7A protein. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 613-617.	2.1	19
65	Dietary zinc mediates inflammation and protects against wasting and metabolic derangement caused by sustained cigarette smoke exposure in mice. <i>BioMetals</i> , 2011, 24, 23-39.	4.1	18
66	hZip1 (hSLC39A1) regulates zinc homeostasis in gut epithelial cells. <i>Genes and Nutrition</i> , 2013, 8, 475-486.	2.5	18
67	Real-Time Quartz Crystal Microbalance Monitoring of Free Docosahexaenoic Acid Interactions with Supported Lipid Bilayers. <i>Langmuir</i> , 2016, 32, 11717-11727.	3.5	18
68	Lack of ceruloplasmin expression alters aspects of copper transport to the fetus and newborn, as determined in mice. <i>BioMetals</i> , 2012, 25, 373-382.	4.1	17
69	Zinc and DHA have opposing effects on the expression levels of histones H3 and H4 in human neuronal cells. <i>British Journal of Nutrition</i> , 2010, 103, 344-351.	2.3	16
70	Probing Synechocystis-Arsenic Interactions through Extracellular Nanowires. <i>Frontiers in Microbiology</i> , 2016, 7, 1134.	3.5	16
71	Genotoxicity assessment of soils from wastewater irrigation areas and bioremediation sites using the <i>Vicia faba</i> root tip micronucleus assay. <i>Journal of Environmental Monitoring</i> , 2007, 9, 182-186.	2.1	15
72	Differential intracellular localisation of the Menkes and Wilson copper transporting ATPases in the third trimester human placenta. <i>Placenta</i> , 2011, 32, 79-85.	1.5	15

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73	Molecular and cellular characterisation of the zinc uptake (Znu) system of <i>Nostoc punctiforme</i> . FEMS Microbiology Ecology, 2013, 86, 149-171.	2.7	14
74	Copper and lactational hormones influence the CTR1 copper transporter in PMC42-LA mammary epithelial cell culture models. Journal of Nutritional Biochemistry, 2014, 25, 377-387.	4.2	14
75	Altered expression of two zinc transporters, SLC30A5 and SLC30A6, underlies a mammary gland disorder of reduced zinc secretion into milk. Genes and Nutrition, 2015, 10, 487.	2.5	14
76	Abnormal copper metabolism in cultured fibroblasts from patients with Wilson's disease. Journal of Inherited Metabolic Disease, 1980, 3, 155-157.	3.6	13
77	Identifying Epithelial Endocytotic Mechanisms of the Peanut Allergens Ara h 1 and Ara h 2. International Archives of Allergy and Immunology, 2017, 172, 106-115.	2.1	13
78	Functional characterization of the twin ZIP/SLC39 metal transporters, NpunF3111 and NpunF2202 in <i>Nostoc punctiforme</i> . Applied Microbiology and Biotechnology, 2013, 97, 8649-8662.	3.6	12
79	Lactation affects expression of intermediate filaments in human breast epithelium. Differentiation, 2001, 67, 41-49.	1.9	11
80	EXTRACELLULAR MATRIX INDUCES FORMATION OF ORGANOID AND CHANGES IN CELL SURFACE MORPHOLOGY IN CULTURED HUMAN BREAST CARCINOMA CELLS PMC42-LA. In Vitro Cellular and Developmental Biology - Animal, 2003, 39, 428.	1.5	11
81	Chromium tolerance and accumulation in <i>Aspergillus flavus</i> isolated from tannery effluent. Journal of Basic Microbiology, 2020, 60, 58-71.	3.3	11
82	Identification and topographical characterisation of microbial nanowires in <i>Nostoc punctiforme</i> . Antonie Van Leeuwenhoek, 2016, 109, 475-480.	1.7	10
83	Effects of ATP7A overexpression in mice on copper transport and metabolism in lactation and gestation. Physiological Reports, 2014, 2, e00195.	1.7	9
84	Copper Levels in Buccal Cells of Vineyard Workers Engaged in Various Activities. Annals of Occupational Hygiene, 2012, 56, 305-14.	1.9	8
85	Critical effects of polar fluorescent probes on the interaction of DHA with POPC supported lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1135-1142.	2.6	8
86	Zinc transport by fibroblasts from patients with acrodermatitis enteropathica. Biological Trace Element Research, 1989, 22, 257-263.	3.5	7
87	MYOEPITHELIAL MOLECULAR MARKERS IN HUMAN BREAST CARCINOMA PMC42-LA CELLS ARE INDUCED BY EXTRACELLULAR MATRIX AND STROMAL CELLS. In Vitro Cellular and Developmental Biology - Animal, 2006, 42, 298-307.	1.5	7
88	Transient epigenomic changes during pregnancy and early postpartum in women with and without type 2 diabetes. Epigenomics, 2018, 10, 419-431.	2.1	7
89	Peroxide reduction by a metal-dependent catalase in <i>Nostoc punctiforme</i> (cyanobacteria). Applied Microbiology and Biotechnology, 2017, 101, 3781-3800.	3.6	6
90	The effect of tetrathiomolybdate on the metabolism of copper by hepatocytes and fibroblasts. Biological Trace Element Research, 1989, 22, 179-188.	3.5	5

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91	The ZntA-like NpunR4017 plays a key role in maintaining homeostatic levels of zinc in <i>Nostoc punctiforme</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10559-10574.	3.6	5
92	Ceruloplasmin is regulated by copper and lactational hormones in PMC42-LA mammary epithelial cell culture models. <i>Metallomics</i> , 2016, 8, 941-950.	2.4	5
93	Review of the structures and functions of algal photoreceptors to optimize bioproduct production with novel bioreactor designs for strain improvement. <i>Biotechnology and Bioengineering</i> , 2022, 119, 2031-2045.	3.3	5
94	Characterization of two cation diffusion facilitators NpunF0707 and NpunF1794 in <i>Nostoc punctiforme</i> . <i>Journal of Applied Microbiology</i> , 2015, 119, 1357-1370.	3.1	3
95	Mechanism of Docosahexaenoic Acid in the Enhancement of Neuronal Signalling. <i>Series in Bioengineering</i> , 2017, , 99-117.	0.6	2
96	Metals in Host-Microbe Interaction. , 2015, , 199-226.		2
97	Selective Metal Ion Homeostasis in Cyanobacteria. , 2017, , 219-232.		1
98	mRNA profiling of a well-differentiated G1 pancreatic NET correlates with immunohistochemistry profile: a case report. <i>BMC Gastroenterology</i> , 2021, 21, 194.	2.0	1
99	Genome Sequence of <i>Lelliottia</i> sp. Strain WAP21, Isolated from Soil in Canola Fields in Victoria, Australia. <i>Microbiology Resource Announcements</i> , 2022, 11, e0101821.	0.6	1
100	Effect Of Peanut Allergens On Intestinal Barrier Permeability and Tight Junction Localisation In Caco-2 Cell Cultures. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, AB224.	2.9	0
101	Copper is taken up efficiently from albumin and alpha ₂ -macroglobulin by cultured human cells by more than one mechanism. <i>FASEB Journal</i> , 2008, 22, 443.3.	0.5	0
102	Lactational hormones increase expression of milk proteins but do not enhance uptake of copper by mammary epithelial cells. <i>FASEB Journal</i> , 2008, 22, 1192.1.	0.5	0
103	Copper secretion from human breast epithelial cells is mediated by ATP7B and lactational hormones. <i>FASEB Journal</i> , 2008, 22, 443.6.	0.5	0
104	DMT1 is not involved in uptake of copper from the blood plasma by hepatic and mammary epithelial cells. <i>FASEB Journal</i> , 2008, 22, 692.9.	0.5	0
105	Abstract CN12-03: Epithelial-mesenchymal transition in human breast cancer progression: cancer stem cell attributes, dissemination, and dormancy. , 2008, ,		0
106	The 10-fold increase in basal copper uptake by mammary gland in lactation is not induced by lactational hormones. <i>FASEB Journal</i> , 2010, 24, 719.3.	0.5	0
107	Excess ATP7A reduces the copper content of the mammary gland in pregnancy and lactation but does not alter levels of plasma ceruloplasmin. <i>FASEB Journal</i> , 2010, 24, 719.4.	0.5	0