

Craig Murdoch

List of Publications by Year in descending order

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112
papers

9,690
citations

61857

43
h-index

37111

96
g-index

113
all docs

113
docs citations

113
times ranked

13729
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of myeloid cells in the promotion of tumour angiogenesis. <i>Nature Reviews Cancer</i> , 2008, 8, 618-631.	12.8	1,404
2	Mechanisms regulating the recruitment of macrophages into hypoxic areas of tumors and other ischemic tissues. <i>Blood</i> , 2004, 104, 2224-2234.	0.6	772
3	Chemokine receptors and their role in inflammation and infectious diseases. <i>Blood</i> , 2000, 95, 3032-3043.	0.6	678
4	Hypoxia Regulates Macrophage Functions in Inflammation. <i>Journal of Immunology</i> , 2005, 175, 6257-6263.	0.4	404
5	Macrophage Responses to Hypoxia. <i>American Journal of Pathology</i> , 2005, 167, 627-635.	1.9	381
6	Angiopoietin-2 Regulates Gene Expression in TIE2-Expressing Monocytes and Augments Their Inherent Proangiogenic Functions. <i>Cancer Research</i> , 2010, 70, 5270-5280.	0.4	299
7	Expression of Tie-2 by Human Monocytes and Their Responses to Angiopoietin-2. <i>Journal of Immunology</i> , 2007, 178, 7405-7411.	0.4	283
8	Hypoxia-inducible factors 1 and 2 are important transcriptional effectors in primary macrophages experiencing hypoxia. <i>Blood</i> , 2009, 114, 844-859.	0.6	271
9	CXCR4: chemokine receptor extraordinaire. <i>Immunological Reviews</i> , 2000, 177, 175-184.	2.8	260
10	CXC CHEMOKINE RECEPTOR EXPRESSION ON HUMAN ENDOTHELIAL CELLS. <i>Cytokine</i> , 1999, 11, 704-712.	1.4	258
11	Neutrophils: key mediators of tumour angiogenesis. <i>International Journal of Experimental Pathology</i> , 2009, 90, 222-231.	0.6	257
12	Tie2-expressing monocytes: regulation of tumor angiogenesis and therapeutic implications. <i>Trends in Immunology</i> , 2007, 28, 519-524.	2.9	255
13	Chemokine receptors and their role in inflammation and infectious diseases. <i>Blood</i> , 2000, 95, 3032-43.	0.6	253
14	Angiopoietin 2 Stimulates TIE2-Expressing Monocytes To Suppress T Cell Activation and To Promote Regulatory T Cell Expansion. <i>Journal of Immunology</i> , 2011, 186, 4183-4190.	0.4	185
15	Plasticity in Tumor-Promoting Inflammation: Impairment of Macrophage Recruitment Evokes a Compensatory Neutrophil Response. <i>Neoplasia</i> , 2008, 10, 329-IN2.	2.3	183
16	Macrophage migration and gene expression in response to tumor hypoxia. <i>International Journal of Cancer</i> , 2005, 117, 701-708.	2.3	176
17	Directing cell therapy to anatomic target sites in vivo with magnetic resonance targeting. <i>Nature Communications</i> , 2015, 6, 8009.	5.8	126
18	Polysome-Mediated Delivery of Combination Anticancer Therapy to Head and Neck Cancer Cells: 2D and 3D <i>in Vitro</i> Evaluation. <i>Molecular Pharmaceutics</i> , 2014, 11, 1176-1188.	2.3	122

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19	Neutrophil-mediated tumour angiogenesis: Subversion of immune responses to promote tumour growth. <i>Seminars in Cancer Biology</i> , 2013, 23, 149-158.	4.3	119
20	Use of Macrophages to Target Therapeutic Adenovirus to Human Prostate Tumors. <i>Cancer Research</i> , 2011, 71, 1805-1815.	0.4	111
21	A novel magnetic approach to enhance the efficacy of cell-based gene therapies. <i>Gene Therapy</i> , 2008, 15, 902-910.	2.3	98
22	Characterization of a functional C3A liver spheroid model. <i>Toxicology Research</i> , 2016, 5, 1053-1065.	0.9	96
23	Tissue-engineered Oral Mucosa. <i>Journal of Dental Research</i> , 2012, 91, 642-650.	2.5	90
24	Interobserver agreement in dysplasia grading: toward an enhanced gold standard for clinical pathology trials. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2015, 120, 474-482.e2.	0.2	86
25	Inhibition of neutrophil infiltration into A549 lung tumors <i>in vitro</i> and <i>in vivo</i> using a CXCR2-specific antagonist is associated with reduced tumor growth. <i>International Journal of Cancer</i> , 2011, 129, 847-858.	2.3	81
26	Development of tissue-engineered models of oral dysplasia and early invasive oral squamous cell carcinoma. <i>British Journal of Cancer</i> , 2011, 105, 1582-1592.	2.9	81
27	<i>Candida albicans</i> -Endothelial Cell Interactions: a Key Step in the Pathogenesis of Systemic Candidiasis. <i>Infection and Immunity</i> , 2008, 76, 4370-4377.	1.0	77
28	HUMAN TOLL-LIKE RECEPTOR 4 MUTATIONS ARE ASSOCIATED WITH SUSCEPTIBILITY TO INVASIVE MENINGOCOCCAL DISEASE IN INFANCY. <i>Pediatric Infectious Disease Journal</i> , 2006, 25, 80-81.	1.1	76
29	Pre-clinical evaluation of novel mucoadhesive bilayer patches for local delivery of clobetasol-17-propionate to the oral mucosa. <i>Biomaterials</i> , 2018, 178, 134-146.	5.7	73
30	Candidalysin Is Required for Neutrophil Recruitment and Virulence During Systemic <i>Candida albicans</i> Infection. <i>Journal of Infectious Diseases</i> , 2019, 220, 1477-1488.	1.9	72
31	Polymersome-mediated intracellular delivery of antibiotics to treat <i>Porphyromonas gingivalis</i> infected oral epithelial cells. <i>FASEB Journal</i> , 2013, 27, 4455-4465.	0.2	70
32	Functional expression of chemokine receptor CXCR4 on human epithelial cells. <i>Immunology</i> , 1999, 98, 36-41.	2.0	69
33	Effects of hypoxia on transcription factor expression in human monocytes and macrophages. <i>Immunobiology</i> , 2008, 213, 899-908.	0.8	66
34	Diffusion Studies of Nanometer Polymersomes Across Tissue Engineered Human Oral Mucosa. <i>Pharmaceutical Research</i> , 2009, 26, 1718-1728.	1.7	66
35	Adhesion of <i>Candida albicans</i> to Endothelial Cells under Physiological Conditions of Flow. <i>Infection and Immunity</i> , 2009, 77, 3872-3878.	1.0	58
36	Differential Virulence of <i>Candida glabrata</i> Glycosylation Mutants*. <i>Journal of Biological Chemistry</i> , 2013, 288, 22006-22018.	1.6	57

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37	Pneumococcal nasopharyngeal carriage in children following heptavalent pneumococcal conjugate vaccination in infancy. <i>Archives of Disease in Childhood</i> , 2003, 88, 211-214.	1.0	56
38	Evaluation of tissue engineered models of the oral mucosa to investigate oral candidiasis. <i>Microbial Pathogenesis</i> , 2011, 50, 278-285.	1.3	51
39	Identification of Novel Bacteriophages with Therapeutic Potential That Target <i>Enterococcus faecalis</i> . <i>Infection and Immunity</i> , 2019, 87, .	1.0	50
40	Internalization and biodistribution of polymersomes into oral squamous cell carcinoma cells <i>in vitro</i> and <i>in vivo</i> . <i>Nanomedicine</i> , 2010, 5, 1025-1036.	1.7	49
41	The Role of HOXB9 and miR-196a in Head and Neck Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2015, 10, e0122285.	1.1	49
42	Age-Dependent Association of Human Mannose-Binding Lectin Mutations With Susceptibility to Invasive Meningococcal Disease in Childhood. <i>Pediatric Infectious Disease Journal</i> , 2007, 26, 243-246.	1.1	48
43	<i>Porphyromonas gingivalis</i> Outer Membrane Vesicles Increase Vascular Permeability. <i>Journal of Dental Research</i> , 2020, 99, 1494-1501.	2.5	48
44	Impact of cell types and culture methods on the functionality of <i>in vitro</i> liver systems – A review of cell systems for hepatotoxicity assessment. <i>Toxicology in Vitro</i> , 2018, 48, 262-275.	1.1	45
45	<i>Candida albicans</i> adhesin Als3p is dispensable for virulence in the mouse model of disseminated candidiasis. <i>Microbiology (United Kingdom)</i> , 2011, 157, 1806-1815.	0.7	43
46	Chemokine receptors and their role in inflammation and infectious diseases. <i>Blood</i> , 2000, 95, 3032-3043.	0.6	43
47	Choline-Binding Protein A of <i>Streptococcus pneumoniae</i> Elicits Chemokine Production and Expression of Intercellular Adhesion Molecule 1 (CD54) by Human Alveolar Epithelial Cells. <i>Journal of Infectious Diseases</i> , 2002, 186, 1253-1260.	1.9	40
48	Chemokines induce the cellular migration of MCF-7 human breast carcinoma cells: subpopulations of tumour cells display positive and negative chemotaxis and differential <i>in vivo</i> growth potentials. <i>Clinical and Experimental Metastasis</i> , 1999, 17, 389-396.	1.7	38
49	Hypoxia-induced secretion of macrophage migration-inhibitory factor from MCF-7 breast cancer cells is regulated in a hypoxia-inducible factor-independent manner. <i>Cancer Letters</i> , 2008, 265, 239-249.	3.2	38
50	Denture-associated biofilm infection in three-dimensional oral mucosal tissue models. <i>Journal of Medical Microbiology</i> , 2018, 67, 364-375.	0.7	38
51	Immune mechanisms in oral lichen planus. <i>Oral Diseases</i> , 2023, 29, 1400-1415.	1.5	38
52	Macrophage-Based Anti-Cancer Therapy: Modelling Different Modes of Tumour Targeting. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 1747-1776.	0.9	35
53	Characterisation and optimisation of organotypic oral mucosal models to study <i>Porphyromonas gingivalis</i> invasion. <i>Microbes and Infection</i> , 2014, 16, 310-319.	1.0	35
54	Fabrication of Electrospun Mucoadhesive Membranes for Therapeutic Applications in Oral Medicine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11557-11567.	4.0	35

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55	Incorporation of lysozyme into a mucoadhesive electrospun patch for rapid protein delivery to the oral mucosa. <i>Materials Science and Engineering C</i> , 2020, 112, 110917.	3.8	35
56	Chemokine Receptors and Their Role in Vascular Biology. <i>Journal of Vascular Research</i> , 2000, 37, 1-7.	0.6	34
57	Mechanisms of vascular damage by systemic dissemination of the oral pathogen <i>Porphyromonas gingivalis</i> . <i>FEBS Journal</i> , 2021, 288, 1479-1495.	2.2	34
58	Mucoadhesive Electrospun Fibre-Based Technologies for Oral Medicine. <i>Pharmaceutics</i> , 2020, 12, 504.	2.0	33
59	Characterisation of a functional rat hepatocyte spheroid model. <i>Toxicology in Vitro</i> , 2019, 55, 160-172.	1.1	32
60	Mucosal immune responses to capsular pneumococcal polysaccharides in immunized preschool children and controls with similar nasal pneumococcal colonization rates. <i>Pediatric Infectious Disease Journal</i> , 2004, 23, 307-313.	1.1	31
61	Use of electrical impedance spectroscopy to detect malignant and potentially malignant oral lesions. <i>International Journal of Nanomedicine</i> , 2014, 9, 4521.	3.3	31
62	“Cytology-on-a-chip” based sensors for monitoring of potentially malignant oral lesions. <i>Oral Oncology</i> , 2016, 60, 103-111.	0.8	30
63	Gingipain-dependent degradation of mammalian target of rapamycin pathway proteins by the periodontal pathogen <i>Porphyromonas gingivalis</i> during invasion. <i>Molecular Oral Microbiology</i> , 2013, 28, 366-378.	1.3	29
64	Multiscale modelling of drug transport and metabolism in liver spheroids. <i>Interface Focus</i> , 2020, 10, 20190041.	1.5	29
65	Functional expression of the chemokine receptor XCR1 on oral epithelial cells. <i>Journal of Pathology</i> , 2010, 221, 153-163.	2.1	28
66	Development and Characterization of <i>In Vitro</i> Human Oral Mucosal Equivalents Derived from Immortalized Oral Keratinocytes. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 1108-1117.	1.1	28
67	Mucoadhesive Electrospun Patch Delivery of Lidocaine to the Oral Mucosa and Investigation of Spatial Distribution in a Tissue Using MALDI-Mass Spectrometry Imaging. <i>Molecular Pharmaceutics</i> , 2019, 16, 3948-3956.	2.3	26
68	Mucoadhesive emulgel systems containing curcumin for oral squamous cell carcinoma treatment: From pre-formulation to cytotoxicity in tissue-engineering oral mucosa. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 151, 105372.	1.9	26
69	Zebrafish as a new model to study effects of periodontal pathogens on cardiovascular diseases. <i>Scientific Reports</i> , 2016, 6, 36023.	1.6	25
70	Pseudohyphal Regulation by the Transcription Factor Rfg1p in <i>Candida albicans</i> . <i>Eukaryotic Cell</i> , 2010, 9, 1363-1373.	3.4	24
71	Cigarette smoke condensate promotes pro-tumorigenic stromal-epithelial interactions by suppressing miR-145. <i>Journal of Oral Pathology and Medicine</i> , 2013, 42, 309-314.	1.4	23
72	Point-of-care oral cytology tool for the screening and assessment of potentially malignant oral lesions. <i>Cancer Cytopathology</i> , 2020, 128, 207-220.	1.4	23

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73	Combined mathematical modelling and experimentation to predict polymersome uptake by oral cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 339-348.	1.7	20
74	Cooling of the oral mucosa to prevent adverse effects of chemotherapeutic agents: An in vitro study. <i>Journal of Oral Pathology and Medicine</i> , 2018, 47, 477-483.	1.4	20
75	Medium-Chain Fatty Acids Released from Polymeric Electrospun Patches Inhibit <i>Candida albicans</i> Growth and Reduce the Biofilm Viability. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4087-4095.	2.6	20
76	Pneumolysin-induced CXCL8 production by nasopharyngeal epithelial cells is dependent on calcium flux and MAPK activation via Toll-like receptor 4. <i>Microbes and Infection</i> , 2011, 13, 65-75.	1.0	19
77	Tissue-engineered oral mucosa to study radiotherapy-induced oral mucositis. <i>International Journal of Radiation Biology</i> , 2013, 89, 907-914.	1.0	18
78	Design of a nanostructured mucoadhesive system containing curcumin for buccal application: from physicochemical to biological aspects. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2304-2328.	1.5	17
79	Attenuation of doxorubicin-induced cardiotoxicity in a human in vitro cardiac model by the induction of the NRF-2 pathway. <i>Biomedicine and Pharmacotherapy</i> , 2019, 112, 108637.	2.5	16
80	Oral human papillomavirus infection in England and associated risk factors: a case-control study. <i>BMJ Open</i> , 2018, 8, e022497.	0.8	15
81	Khat (<i>Catha edulis</i>) alters the phenotype and anti-microbial activity of peripheral blood mononuclear cells. <i>Journal of Ethnopharmacology</i> , 2011, 138, 780-787.	2.0	14
82	HPV-negative, but not HPV-positive, oropharyngeal carcinomas induce fibroblasts to support tumour invasion through micro-environmental release of HGF and IL-6. <i>Carcinogenesis</i> , 2018, 39, 170-179.	1.3	14
83	The IL-1/IL-1R axis induces greater fibroblast-derived chemokine release in human papillomavirus-negative compared to positive oropharyngeal cancer. <i>International Journal of Cancer</i> , 2019, 144, 334-344.	2.3	14
84	In silico prediction of skin metabolism and its implication in toxicity assessment. <i>Computational Toxicology</i> , 2017, 3, 44-57.	1.8	13
85	Evaluating the use of optical coherence tomography for the detection of epithelial cancers in vitro. <i>Journal of Biomedical Optics</i> , 2011, 16, 116015.	1.4	12
86	Macrophage-mediated response to hypoxia in disease. <i>Hypoxia (Auckland, N Z)</i> , 2014, 2, 185.	1.9	12
87	Role of OmpA2 surface regions of <i>Porphyromonas gingivalis</i> in host-pathogen interactions with oral epithelial cells. <i>MicrobiologyOpen</i> , 2017, 6, e00401.	1.2	12
88	A cellular automaton model examining the effects of oxygen, hydrogen ions and lactate on early tumour growth. <i>Journal of Mathematical Biology</i> , 2014, 69, 839-873.	0.8	11
89	IL-1/IL-1R Signaling in Head and Neck Cancer. <i>Frontiers in Oral Health</i> , 2021, 2, 722676.	1.2	11
90	The Role of Chemokines in Sepsis and Septic Shock. , 2002, 10, 38-57.		10

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91	Expression and enzyme activity of cytochrome P450 enzymes <sc>CYP</sc>3A4 and <sc>CYP</sc>3A5 in human skin and tissue-engineered skin equivalents. <i>Experimental Dermatology</i> , 2018, 27, 473-475.	1.4	9
92	Increased Abundance of Tumour-Associated Neutrophils in HPV-Negative Compared to HPV-Positive Oropharyngeal Squamous Cell Carcinoma Is Mediated by IL-1R Signalling. <i>Frontiers in Oral Health</i> , 2021, 2, 604565.	1.2	9
93	Methyl-donor depletion of head and neck cancer cells in vitro establishes a less aggressive tumour cell phenotype. <i>European Journal of Nutrition</i> , 2018, 57, 1321-1332.	1.8	8
94	Corticosteroid delivery using oral mucosa equivalents for the treatment of inflammatory mucosal diseases. <i>European Journal of Oral Sciences</i> , 2021, 129, e12761.	0.7	8
95	Immunoresponsive Tissue-Engineered Oral Mucosal Equivalents Containing Macrophages. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 462-471.	1.1	8
96	Preparation of Primary Rat Hepatocyte Spheroids Utilizing the Liquid-Overlay Technique. <i>Current Protocols in Toxicology</i> / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2019, 81, e87.	1.1	7
97	In silico-guided optimisation of oxygen gradients in hepatic spheroids. <i>Computational Toxicology</i> , 2019, 12, 100093.	1.8	7
98	Haptoglobin expression in human colorectal cancer. <i>Histology and Histopathology</i> , 2019, 34, 953-963.	0.5	7
99	<i>Fusobacterium nucleatum</i> mediates endothelial damage and increased permeability following single species and polymicrobial infection. <i>Journal of Periodontology</i> , 2022, 93, 1421-1433.	1.7	7
100	Use of a Rho kinase inhibitor to increase human tonsil keratinocyte longevity for three-dimensional, tissue engineered tonsil epithelium equivalents. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1636-e1646.	1.3	6
101	A Combined In-Vitro/In Silico Approach to Identifying Off-Target Receptor Toxicity. <i>IScience</i> , 2018, 4, 84-96.	1.9	5
102	Nuclear F-actin Cytology in Oral Epithelial Dysplasia and Oral Squamous Cell Carcinoma. <i>Journal of Dental Research</i> , 2021, 100, 479-486.	2.5	5
103	Imaging of 3D Tissue-Engineered Models of Oral Cancer Using 890 and 1300 nm Optical Coherence Tomography. <i>Sovremennyye Tehnologii V Medicine</i> , 2015, 7, 60-68.	0.4	5
104	Oral candidal carriage correlates with CD4 + cell count but not with HIV and highly active antiretroviral therapy status. <i>Journal of Investigative and Clinical Dentistry</i> , 2019, 10, e12438.	1.8	4
105	Uropathogenic <i>Escherichia coli</i> -induced neutrophil adhesion to urinary epithelium is strain-specific and mediated by CD11b/CD18. <i>Urological Research</i> , 2001, 29, 102-107.	1.5	3
106	Determination of Chemical Irritation Potential Using a Defined Gene Signature Set on Tissue-Engineered Human Skin Equivalents. <i>JID Innovations</i> , 2021, 1, 100011.	1.2	3
107	Tissue-engineered models of oral soft tissue diseases. , 2017, , 245-255.		2
108	<i>In vitro Candida albicans</i> biofilm formation on different titanium surface topographies. <i>Biomaterial Investigations in Dentistry</i> , 2020, 7, 146-157.	3.0	2

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109	A mathematical investigation into the uptake kinetics of nanoparticles in vitro. PLoS ONE, 2021, 16, e0254208.	1.1	2
110	Synthesized Polymer Vesicles as Antibiotic Delivery Vehicles for Treating Intracellular Porphyromonas Gingivalis. , 2010, , .		1
111	Distribution of TAM relative to blood vessels in prostate carcinoma. Egyptian Journal of Pathology, 2012, 32, 217-226.	0.0	0
112	Gingipain-dependent degradation of mTOR pathway proteins by the periodontal pathogen Porphyromonas gingivalis during invasion. Molecular Oral Microbiology, 2013, , n/a-n/a.	1.3	0