

Ross T. Barnard

List of Publications by Citations

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104
papers

3,703
citations

29
h-index

59
g-index

112
ext. papers

4,023
ext. citations

4.5
avg, IF

4.8
L-index

#	Paper	IF	Citations
104	Growth hormone receptor and serum binding protein: purification, cloning and expression. <i>Nature</i> , 1987 , 330, 537-43	50.4	1378
103	Localization and ontogeny of growth hormone receptor gene expression in the central nervous system. <i>Developmental Brain Research</i> , 1993 , 74, 225-33		171
102	Antimicrobial Silver in Medicinal and Consumer Applications: A Patent Review of the Past Decade (2007-2017). <i>Antibiotics</i> , 2018 , 7,	4.9	124
101	Placental Growth Hormone (GH), GH-Binding Protein, and Insulin-Like Growth Factor Axis in Normal, Growth-Retarded, and Diabetic Pregnancies: Correlations with Fetal Growth. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 1143-1150	5.6	109
100	The ontogeny of growth hormone receptors in the rabbit tibia. <i>Endocrinology</i> , 1988 , 122, 2562-9	4.8	107
99	Functional growth hormone (GH) receptors and GH are expressed by preimplantation mouse embryos: a role for GH in early embryogenesis?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 5125-30	11.5	98
98	Serum and liver cytosolic growth-hormone-binding proteins are antigenically identical with liver membrane Receptor Types 1 and 2. <i>Biochemical Journal</i> , 1986 , 237, 885-92	3.8	75
97	Characterization of the growth hormone-binding protein of human serum using a panel of monoclonal antibodies. <i>Journal of Endocrinology</i> , 1989 , 123, 327-32	4.7	72
96	Monoclonal antibodies to the rabbit liver growth hormone receptor: production and characterization. <i>Endocrinology</i> , 1984 , 115, 1805-13	4.8	71
95	PCR bias toward the wild-type k-ras and p53 sequences: implications for PCR detection of mutations and cancer diagnosis. <i>BioTechniques</i> , 1998 , 25, 684-91	2.5	60
94	The serum growth hormone binding protein: pregnant with possibilities. <i>Journal of Endocrinology</i> , 1997 , 153, 1-14	4.7	56
93	Commensal Viruses of Mosquitoes: Host Restriction, Transmission, and Interaction with Arboviral Pathogens. <i>Evolutionary Bioinformatics</i> , 2016 , 12, 35-44	1.9	50
92	Universal primers that amplify RNA from all three flavivirus subgroups. <i>Virology Journal</i> , 2008 , 5, 16	6.1	49
91	Arsenic inhibits the repair of DNA damage induced by benzo(a)pyrene. <i>Toxicology Letters</i> , 2002 , 133, 59-67	4.4	49
90	Human Blood CD1c Dendritic Cells Promote Th1 and Th17 Effector Function in Memory CD4 T Cells. <i>Frontiers in Immunology</i> , 2017 , 8, 971	8.4	48
89	A New Clade of Insect-Specific Flaviviruses from Australian Mosquitoes Displays Species-Specific Host Restriction. <i>MSphere</i> , 2017 , 2,	5	47
88	Visual demonstration of growth hormone receptors on human growth plate chondrocytes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1990 , 70, 1725-31	5.6	47

87	Bcl-2 genes and growth factors in the pathology of ischaemic acute renal failure. <i>Immunology and Cell Biology</i> , 1999 , 77, 279-86	5	46
86	Control of growth hormone (GH) binding protein release from human hepatoma cells expressing full-length GH receptor. <i>Endocrinology</i> , 1995 , 136, 651-9	4.8	43
85	A novel insect-specific flavivirus replicates only in Aedes-derived cells and persists at high prevalence in wild Aedes vigilax populations in Sydney, Australia. <i>Virology</i> , 2015 , 486, 272-83	3.6	42
84	Administration of growth hormone or IGF-I to pregnant rats on a reduced diet throughout pregnancy does not prevent fetal intrauterine growth retardation and elevated blood pressure in adult offspring. <i>Journal of Endocrinology</i> , 1999 , 163, 69-77	4.7	39
83	Chronic exposure to anabolic steroids induces the muscle expression of oxytocin and a more than fiftyfold increase in circulating oxytocin in cattle. <i>Physiological Genomics</i> , 2011 , 43, 467-78	3.6	38
82	Gene expression phenotypes for lipid metabolism and intramuscular fat in skeletal muscle of cattle. <i>Journal of Animal Science</i> , 2013 , 91, 1112-28	0.7	35
81	A method for rapid, ligation-independent reformatting of recombinant monoclonal antibodies. <i>Journal of Immunological Methods</i> , 2010 , 354, 85-90	2.5	35
80	Genomic characterisation of Wongabel virus reveals novel genes within the Rhabdoviridae. <i>Virology</i> , 2008 , 376, 13-23	3.6	34
79	A growth hormone agonist produced by targeted mutagenesis at binding site 1. Evidence that site 1 regulates bioactivity. <i>Journal of Biological Chemistry</i> , 1995 , 270, 16833-9	5.4	34
78	A broad spectrum, one-step reverse-transcription PCR amplification of the neuraminidase gene from multiple subtypes of influenza A virus. <i>Virology Journal</i> , 2008 , 5, 77	6.1	33
77	Growth hormone receptors--their structure, location and role. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 1990 , 366, 60-72	3.1	33
76	Expression of the growth hormone receptor and growth hormone-binding protein during pregnancy in the mouse. <i>Endocrinology</i> , 1992 , 131, 876-82	4.8	29
75	Tyrosinase inhibitors as potential antibacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2020 , 187, 111892	6.8	29
74	A New Orbivirus Isolated from Mosquitoes in North-Western Australia Shows Antigenic and Genetic Similarity to Corriparta Virus but Does Not Replicate in Vertebrate Cells. <i>Viruses</i> , 2016 , 8,	6.2	28
73	Valuing of firmsPprior knowledge: a measure of knowledge distance. <i>Knowledge and Process Management</i> , 2003 , 10, 85-98	1.8	25
72	Immunosuppressive human anti-CD83 monoclonal antibody depletion of activated dendritic cells in transplantation. <i>Leukemia</i> , 2016 , 30, 692-700	10.7	24
71	Hydroxyl substituted benzoic acid/cinnamic acid derivatives: Tyrosinase inhibitory kinetics, anti-melanogenic activity and molecular docking studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 126722	2.9	24
70	Discovery and characterisation of a new insect-specific bunyavirus from Culex mosquitoes captured in northern Australia. <i>Virology</i> , 2016 , 489, 269-81	3.6	23

69	The first disulphide loop of the rabbit growth hormone receptor is required for binding to the hormone. <i>Journal of Molecular Endocrinology</i> , 1992 , 9, 213-20	4.5	22
68	Growth hormone-binding protein in normal and pathologic gestation: correlations with maternal diabetes and fetal growth. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1997 , 82, 1879-84	5.6	21
67	Neither the New Zealand genetically hypertensive strain nor Dahl salt-sensitive strain has an A1079T transversion in the alpha1 isoform of the Na(+),K(+)-ATPase gene. <i>Hypertension</i> , 2001 , 38, 786-92	8.5	21
66	Megaprimer mutagenesis using very long primers. <i>BioTechniques</i> , 2003 , 34, 52-4, 56	2.5	20
65	Molecular phylogeny of edge hill virus supports its position in the yellow Fever virus group and identifies a new genetic variant. <i>Evolutionary Bioinformatics</i> , 2010 , 6, 91-6	1.9	19
64	Signal transduction by the growth hormone receptor. <i>Experimental Biology and Medicine</i> , 1994 , 206, 216-20	3.7	19
63	Precision Medicines Have Faster Approvals Based On Fewer And Smaller Trials Than Other Medicines. <i>Health Affairs</i> , 2018 , 37, 724-731	7	16
62	Use of serum copper/zinc ratio in patients with large bowel cancer. <i>Journal of Surgical Oncology</i> , 1982 , 21, 230-2	2.8	16
61	Chimerization of multiple antibody classes using splice overlap extension PCR. <i>BioTechniques</i> , 2005 , 38, 181-2	2.5	15
60	Soluble forms of the rabbit adipose tissue and liver growth hormone receptors are antigenically identical, but the integral membrane forms differ. <i>Biochemical Journal</i> , 1990 , 267, 471-7	3.8	15
59	Permeation of topically applied Magnesium ions through human skin is facilitated by hair follicles. <i>Magnesium Research</i> , 2016 , 29, 35-42	1.7	15
58	CMRF-56(+) blood dendritic cells loaded with mRNA induce effective antigen-specific cytotoxic T-lymphocyte responses. <i>Oncolimmunology</i> , 2016 , 5, e1168555	7.2	14
57	A mouse growth hormone-binding protein RIA: concentrations in maternal serum during pregnancy. <i>Endocrinology</i> , 1992 , 130, 1074-6	4.8	14
56	Use of calcium dependence as a means to study the interaction between growth hormones and their binding proteins in rabbit liver. <i>Biochemical Journal</i> , 1988 , 250, 533-8	3.8	14
55	Evidence for differential binding of growth hormones to membrane and cytosolic GH binding proteins of rabbit liver. <i>Journal of Receptors and Signal Transduction</i> , 1986 , 6, 209-25		14
54	Evolution of the magic bullet: Single chain antibody fragments for the targeted delivery of immunomodulatory proteins. <i>Experimental Biology and Medicine</i> , 2018 , 243, 166-183	3.7	13
53	The Tortoise and the Hare: Evolving Regulatory Landscapes for Biosimilars. <i>Trends in Biotechnology</i> , 2016 , 34, 70-83	15.1	13
52	Placental growth hormone is not suppressed by oral glucose loading in normal human pregnancy. <i>Hormone and Metabolic Research</i> , 2002 , 34, 250-3	3.1	13

51	Growth hormone binding protein correlates strongly with leptin and percentage body fat in GH-deficient adults, is increased by GH replacement but does not predict IGF-I response. <i>Growth Hormone and IGF Research</i> , 1999 , 9, 35-40	2	13
50	<i>Syzygium cumini</i> (L.),Skeels fruit extracts: In vitro and in vivo anti-inflammatory properties. <i>Journal of Ethnopharmacology</i> , 2021 , 271, 113805	5	13
49	In vitro bioassay as a predictor of in vivo response. <i>Theoretical Biology and Medical Modelling</i> , 2005 , 2, 3	2.3	12
48	Interdisciplinary science research and education. <i>Higher Education Research and Development</i> , 2013 , 32, 407-419	1.9	11
47	Comparison of competitively primed and conventional allele-specific nucleic acid amplification. <i>Analytical Biochemistry</i> , 2001 , 292, 207-15	3.1	11
46	An electrostatic model for the interaction between growth hormone and its receptor involving chelation of Ca ²⁺ to the human growth hormone molecule. <i>Journal of Theoretical Biology</i> , 1989 , 140, 355-67	2.3	11
45	Multiplex-microsphere-quantitative polymerase chain reaction: nucleic acid amplification and detection on microspheres. <i>Analytical Biochemistry</i> , 2013 , 432, 23-30	3.1	10
44	Expression of growth hormone-binding protein with a hydrophilic carboxyl terminus by the mouse placenta: studies in vivo and in vitro. <i>Journal of Endocrinology</i> , 1994 , 140, 125-35	4.7	10
43	Evidence for involvement of the carboxy terminus of helix 1 of growth hormone in receptor binding: use of charge reversal mutagenesis to account for calcium dependence of binding and for design of higher affinity analogues. <i>Biochemistry</i> , 1994 , 33, 11724-33	3.2	9
42	Effects of magnesium deficiency--more than skin deep. <i>Experimental Biology and Medicine</i> , 2014 , 239, 1280-91	3.7	8
41	Expression of growth hormone receptors by lymphocyte subpopulations in the human tonsil. <i>Autoimmunity</i> , 1998 , 6, 295-304		8
40	PrimRglo: a multiplexable quantitative real-time polymerase chain reaction system for nucleic acid detection. <i>Analytical Biochemistry</i> , 2012 , 422, 89-95	3.1	6
39	Expecting the unexpected: nucleic acid-based diagnosis and discovery of emerging viruses. <i>Expert Review of Molecular Diagnostics</i> , 2011 , 11, 409-23	3.8	6
38	Use of chimeric antibodies as positive controls in an enzyme-linked immunosorbent assay for diagnosis of scrub typhus (infection by <i>Orientia tsutsugamushi</i>). <i>Vaccine Journal</i> , 2007 , 14, 1307-10		6
37	Characterization of the banana streak virus capsid protein and mapping of the immunodominant continuous B-cell epitopes to the surface-exposed N terminus. <i>Journal of General Virology</i> , 2016 , 97, 3446-3457	4.9	6
36	The Zone of Inhibition. <i>Clinical Chemistry</i> , 2019 , 65, 819	5.5	5
35	Recombinant vaccines. <i>Expert Review of Vaccines</i> , 2010 , 9, 461-3	5.2	5
34	Serum glycoproteins in diagnosis and monitoring of patients with large-bowel cancer. <i>Diseases of the Colon and Rectum</i> , 1981 , 24, 171-5	3.1	5

33	A new, multiplex, quantitative real-time polymerase chain reaction system for nucleic acid detection and quantification. <i>Methods in Molecular Biology</i> , 2013 , 1039, 51-68	1.4	5
32	RNA and DNA Diagnostics on Microspheres: Current and Emerging Methods. <i>RNA Technologies</i> , 2015 , 205-224	0.2	4
31	Development of a Multiplexed Microsphere PCR for Culture-Free Detection and Gram-Typing of Bacteria in Human Blood Samples. <i>ACS Infectious Diseases</i> , 2018 , 4, 837-844	5.5	4
30	A strategy for optimizing charge reversal mutagenesis of ion pairs in hormone-receptor or enzyme-substrate complexes. <i>Protein Engineering, Design and Selection</i> , 1993 , 6, 455-9	1.9	4
29	The search for receptor-interactive regions in growth hormone: historical perspectives and novel strategies. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 1994 , 399, 33-41	3.1	4
28	Detection of influenza A virus neuraminidase and PB2 gene segments by one step reverse transcription polymerase chain reaction. <i>Methods in Molecular Biology</i> , 2010 , 630, 65-81	1.4	3
27	A1079T transversion in the gene for the alpha1 isophorm of the Na ⁺ /K ⁺ ATPase in the Dahl S rat. <i>Journal of Hypertension</i> , 2006 , 24, 1209-10; author reply 1210-3	1.9	3
26	Tennessee antigen: the predictive value of preoperative and postoperative assays in large-bowel cancer. <i>Diseases of the Colon and Rectum</i> , 1982 , 25, 539-41	3.1	3
25	Analysis and application of an equilibrium model for in vitro bioassay systems with three components: receptor, hormone and hormone-binding-protein. <i>Journal of Theoretical Biology</i> , 1998 , 190, 333-9	2.3	2
24	Towards definition of the global biotechnology value chain using cases from Australian biotechnology SMEs. <i>International Journal of Globalisation and Small Business</i> , 2004 , 1, 79	0.4	2
23	Development of an Oligonucleotide-Based SNP Detection Method on Lateral Flow Strips Using Hexapet Tags. <i>Point of Care</i> , 2005 , 4, 108-118	0.4	2
22	Upregulation of GH receptor and GH binding protein during pregnancy in the GH deficient rat. <i>Endocrine</i> , 1995 , 3, 813-7		2
21	Tennessee antigen: its value in the monitoring of patients with colorectal cancer. <i>Diseases of the Colon and Rectum</i> , 1982 , 25, 542-4	3.1	2
20	Application of the PrimRglo assay chemistry to multiplexed bead assays. <i>Current Protocols in Cytometry</i> , 2014 , 69, 13.13.1-13.13.10	3.6	1
19	Chapter 2 Complexity and mastery in shaping interdisciplinarity. <i>International Perspectives on Higher Education Research</i> , 2010 , 29-53		1
18	Reply to Herrera and Ruiz-Opazo's letter published in the June 2006 issue. <i>Journal of Hypertension</i> , 2006 , 24, 2312-3; author reply 2313-6	1.9	1
17	The Parallel bridge and its relevance to biotechnology new ventures. <i>International Journal of Biotechnology</i> , 2004 , 6, 202	0	1
16	The interaction between Glycophorin A (GPA) and Band 3 in the formation of the Wright b (Wr) antigen. <i>Vox Sanguinis</i> , 2021 , 116, 489-492	3.1	1

15	Serendipity in Science: The Unexpected Tie. <i>Clinical Chemistry</i> , 2019 , 65, 358-359	5.5	o
14	Antiinflammatory and Anticancer Properties of Crude Extracts and Fractions: A Bioassay-Guided Approach.. <i>BioMed Research International</i> , 2022 , 2022, 2277417	3	o
13	From Generation to Generation. <i>Clinical Chemistry</i> , 2019 , 65, 1186	5.5	
12	RegentB Canal Near Camden. <i>Clinical Chemistry</i> , 2020 , 66, 862	5.5	
11	A Shark-Human Chimera. <i>Clinical Chemistry</i> , 2018 , 64, 419-420	5.5	
10	Genotyping of <i>Campylobacter jejuni</i> using a novel Polymerase-Chain-Reaction-Microsphere approach. <i>New Biotechnology</i> , 2014 , 31, S104	6.4	
9	University biotechnology education in Australia in an international context. <i>Journal of Biotechnology</i> , 2008 , 136, S770	3.7	
8	Growth hormone binding protein in normal and aneuploid pregnancy: a paradoxical decrease in trisomy 18. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2001 , 108, 701-3	3.7	
7	The effect of growth hormone on growth hormone binding protein, leptin and body composition in hypopituitary adults. <i>International Journal of Obesity</i> , 2000 , 24 Suppl 2, S160-1	5.5	
6	Development of ligase-assisted spacer addition for the measurement of microsatellites. <i>BioTechniques</i> , 2001 , 31, 96-102, 104-6	2.5	
5	The Bay of Marseille, Viewed from L'Estaque, 2010. <i>Clinical Chemistry</i> , 2018 , 64, 1677-1678	5.5	
4	"Baby" Microscope. <i>Clinical Chemistry</i> , 2018 , 64, 1416	5.5	
3	, or the Letter "Aleph" with 22 Flowers. <i>Clinical Chemistry</i> , 2018 , 64, 1130	5.5	
2	Kookaburras on the Clothes Line, Backyard, Queensland. <i>Clinical Chemistry</i> , 2021 , 67, 1297-1298	5.5	
1	Correct estimates of hydrated ionic radius should be used when discussing the permeation of topically applied magnesium ions. <i>Magnesium Research</i> , 2019 , 32, 37-38	1.7	