Briony E Forbes

List of Publications by Year
in descending order

79 papers	3,341 citations	117453 34 h-index	155451 55 g-index
88 all docs	88 docs citations	88 times ranked	3165 citing authors

#	Article	IF	Citations
1	Molecular interactions of the IGF system. Cytokine and Growth Factor Reviews, 2005, 16, 421-439.	3.2	346
2	Homozygous and Heterozygous Expression of a Novel Insulin-Like Growth Factor-I Mutation. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 2855-2864.	1.8	285
3	Structural Determinants for High-Affinity Binding of Insulin-Like Growth Factor II to Insulin Receptor (IR)-A, the Exon 11 Minus Isoform of the IR. Molecular Endocrinology, 2004, 18, 2502-2512.	3.7	177
4	Insulin-Like Growth Factor Binding Proteins: A Structural Perspective. Frontiers in Endocrinology, 2012, 3, 38.	1.5	159
5	Structure and functional analysis of the IGF-II/IGF2R interaction. EMBO Journal, 2008, 27, 265-276.	3.5	101
6	How ligand binds to the type 1 insulin-like growth factor receptor. Nature Communications, 2018, 9, 821.	5.8	99
7	Insulin-like growth factors: Ligands, binding proteins, and receptors. Molecular Metabolism, 2021, 52, 101245.	3.0	90
8	Keeping IGF-II under control: Lessons from the IGF-IIâ€“IGF2R crystal structure. Trends in Biochemical Sciences, 2009, 34, 612-619.	3.7	88
9	Differential Activation of Insulin Receptor Substrates 1 and 2 by Insulin-Like Growth Factor-Activated Insulin Receptors. Molecular and Cellular Biology, 2007, 27, 3569-3577.	1.1	86
10	Classification of the insulin-like growth factor binding proteins into three distinct categories according to their binding specificities. Biochemical and Biophysical Research Communications, 1988, 157, 196-202.	1.0	79
11	Localization of an Insulin-like Growth Factor (IGF) Binding Site of Bovine IGF Binding Protein-2 Using Disulfide Mapping and Deletion Mutation Analysis of the C-terminal Domain. Journal of Biological Chemistry, 1998, 273, 4647-4652.	1.6	74
12	A minimized human insulin-receptor-binding motif revealed in a Conus geographus venom insulin. Nature Structural and Molecular Biology, 2016, 23, 916-920.	3.6	70
13	Disorders of IGFs and IGF-1R signaling pathways. Molecular and Cellular Endocrinology, 2020, 518, 111035.	1.6	66
14	Structural and Functional Characteristics of the Val44Met Insulin-Like Growth Factor I Missense Mutation: Correlation with Effects on Growth and Development. Molecular Endocrinology, 2005, 19, 711-721.	3.7	62
15	Alanine Scanning of a Putative Receptor Binding Surface of Insulin-like Growth Factor-I. Journal of Biological Chemistry, 2008, 283, 20821-20829.	1.6	59
16	Structural Basis for the Lower Affinity of the Insulin-like Growth Factors for the Insulin Receptor. Journal of Biological Chemistry, 2008, 283, 2604-2613.	1.6	58
17	Understanding the Mechanism of Insulin and Insulin-Like Growth Factor (IGF) Receptor Activation by IGF-II. PLoS ONE, 2011, 6, e27488.	1.1	55
18	BIAcore Analysis of Bovine Insulin-like Growth Factor (IGF)-binding Protein-2 Identifies Major IGF Binding Site Determinants in Both the Amino- and Carboxyl-terminal Domains. Journal of Biological Chemistry, 2001, 276, 27120-27128.	1.6	53

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19	Characteristics of binding of insulin-like growth factor (IGF)-I and IGF-II analogues to the type 1 IGF receptor determined by BIAcore analysis. FEBS Journal, 2002, 269, 961-968.	0.2	53
20	Structure, Dynamics and Heparin Binding of the C-terminal Domain of Insulin-like Growth Factor-binding Protein-2 (IGFBP-2). Journal of Molecular Biology, 2006, 364, 690-704.	2.0	50
21	Fish-hunting cone snail venoms are a rich source of minimized ligands of the vertebrate insulin receptor. ELife, 2019, 8, .	2.8	49
22	2â€Nitroveratryl as a Photocleavable Thiolâ€Protecting Group for Directed Disulfide Bond Formation in the Chemical Synthesis of Insulin. Chemistry - A European Journal, 2014, 20, 9549-9552.	1.7	48
23	Precise mapping of an IGF-I-binding site on the IGF-1R. Biochemical Journal, 2007, 401, 269-277.	1.7	46
24	Insulin-like Growth Factor-II (IGF-II) and IGF-II Analogs with Enhanced Insulin Receptor-a Binding Affinity Promote Neural Stem Cell Expansion. Journal of Biological Chemistry, 2014, 289, 4626-4633.	1.6	46
25	Total Chemical Synthesis of an Intraâ€Aâ€Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. Angewandte Chemie - International Edition, 2016, 55, 14743-14747.	7.2	45
26	Solution structure of human insulin-like growthfactor II. Relationship to receptor and binding protein interactions. Journal of Molecular Biology, 1995, 248, 385-401.	2.0	44
27	Role of N- and C-terminal Residues of Insulin-like Growth Factor (IGF)-binding Protein-3 in Regulating IGF Complex Formation and Receptor Activation. Journal of Biological Chemistry, 2004, 279, 53232-53240.	1.6	42
28	Structural Insights into the Interaction of Insulin-like Growth Factor 2 with IGF2R Domain 11. Structure, 2007, 15, 1065-1078.	1.6	42
29	Total Chemical Synthesis of a Nonfibrillating Human Glycoinsulin. Journal of the American Chemical Society, 2020, 142, 1164-1169.	6.6	41
30	An Exon Splice Enhancer Primes IGF2:IGF2R Binding Site Structure and Function Evolution. Science, 2012, 338, 1209-1213.	6.0	40
31	Differential Activation of Insulin Receptor Isoforms by Insulin-Like Growth Factors Is Determined by the C Domain. Endocrinology, 2006, 147, 1029-1036.	1.4	38
32	An Investigation of the Ligand Binding Properties and Negative Cooperativity of Soluble Insulin-like Growth Factor Receptors. Journal of Biological Chemistry, 2008, 283, 5355-5363.	1.6	36
33	A structurally minimized yet fully active insulin based on cone-snail venom insulin principles. Nature Structural and Molecular Biology, 2020, 27, 615-624.	3.6	36
34	How IGF-II Binds to the Human Type 1 Insulin-like Growth Factor Receptor. Structure, 2020, 28, 786-798.e6.	1.6	36
35	A Novel Binding Site for the Human Insulin-like Growth Factor-II (IGF-II)/Mannose 6-Phosphate Receptor on IGF-II. Journal of Biological Chemistry, 2007, 282, 18886-18894.	1.6	35
36	Insulin in motion: The A6-A11 disulfide bond allosterically modulates structural transitions required for insulin activity. Scientific Reports, 2017, 7, 17239.	1.6	35

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37	Alanine Screening Mutagenesis Establishes Tyrosine 60 of Bovine Insulin-like Growth Factor Binding Protein-2 as a Determinant of Insulin-like Growth Factor Binding. Journal of Biological Chemistry, 1998, 273, 19691-19698.	1.6	34
38	Understanding IGF-II Action through Insights into Receptor Binding and Activation. Cells, 2020, 9, 2276.	1.8	34
39	A Novel Approach to Identify Two Distinct Receptor Binding Surfaces of Insulin-like Growth Factor II. Journal of Biological Chemistry, 2009, 284, 7656-7664.	1.6	33
40	The Insulin-like Growth Factor (IGF) Binding Site of Bovine Insulin-like Growth Factor Binding Protein-2 (bIGFBP-2) Probed by Iodination. Journal of Biological Chemistry, 1996, 271, 30529-30536.	1.6	29
41	Cooperativity of the N- and C-Terminal Domains of Insulin-like Growth Factor (IGF) Binding Protein 2 in IGF Binding. Biochemistry, 2007, 46, 13720-13732.	1.2	26
42	Covalent Modification of an Exposed Surface Turn Alters the Global Conformation of the Biotin Carrier Domain of Escherichia coli Acetyl-CoA Carboxylase. Journal of Biological Chemistry, 1997, 272, 26017-26022.	1.6	25
43	Interaction of insulin-like growth factor (IGF)-I and -II with IGF binding protein-2: mapping the binding surfaces by nuclear magnetic resonance. Journal of Molecular Endocrinology, 2005, 34, 685-698.	1.1	25
44	Ligand-Binding Affinity at the Insulin Receptor Isoform-A and Subsequent IR-A Tyrosine Phosphorylation Kinetics are Important Determinants of Mitogenic Biological Outcomes. Frontiers in Endocrinology, 2015, 6, 107.	1.5	25
45	The ability to utilise ammonia as nitrogen source is cell type specific and intricately linked to GDH, AMPK and mTORC1. Scientific Reports, 2019, 9, 1461.	1.6	24
46	Exogenous administration of protease-resistant, non-matrix-binding IGFBP-2 inhibits tumour growth in a murine model of breast cancer. British Journal of Cancer, 2014, 110, 2855-2864.	2.9	22
47	Secretion in Escherichia coli and phage-display of recombinant insulin-like growth factor binding protein-2. Journal of Biotechnology, 1998, 61, 95-108.	1.9	20
48	The N-Terminal Subdomain of Insulin-like Growth Factor (IGF) Binding Protein 6. Structure and Interaction with IGFsâ€. Biochemistry, 2007, 46, 3065-3074.	1.2	20
49	Symmetric and asymmetric receptor conformation continuum induced by a new insulin. Nature Chemical Biology, 2022, 18, 511-519.	3.9	20
50	Total Chemical Synthesis of an Intraâ€Aâ€Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. Angewandte Chemie, 2016, 128, 14963-14967.	1.6	18
51	How insulin-like growth factor I binds to a hybrid insulin receptor type 1 insulin-like growth factor receptor. Structure, 2022, 30, 1098-1108.e6.	1.6	16
52	Insulin-like growth factor binding protein-2: NMR analysis and structural characterization of the N-terminal domain. Biochimie, 2012, 94, 608-616.	1.3	15
53	Delineation of the IGF-II C domain elements involved in binding and activation of the IR-A, IR-B and IGF-IR. Growth Hormone and IGF Research, 2015, 25, 20-27.	0.5	15
54	Monotreme glucagon-like peptide-1 in venom and gut: one gene â€“ two very different functions. Scientific Reports, 2016, 6, 37744.	1.6	12

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55	Two years in IGF research. Growth Hormone and IGF Research, 2016, 30-31, 70-74.	0.5	12
56	Computational model for the IGF-II/IGF2r complex that is predictive of mutational and surface plasmon resonance data. Proteins: Structure, Function and Bioinformatics, 2006, 64, 758-768.	1.5	11
57	The insulin-like growth factor mutation database (IGFmdb). Growth Hormone and IGF Research, 2012, 22, 158-166.	0.5	10
58	Detection of individual virus-infected cells by filter in situ hybridization. Molecular and Cellular Probes, 1988, 2, 245-253.	0.9	9
59	Assessing the potential usefulness of IGF-related peptides and adiponectin for predicting disease risk. Growth Hormone and IGF Research, 2008, 18, 198-204.	0.5	9
60	Changes in the ghrelin hormone pathway maybe part of an unusual gastric system in monotremes. General and Comparative Endocrinology, 2013, 191, 74-82.	0.8	9
61	Identification, Synthesis, Conformation and Activity of an Insulin-like Peptide from a Sea Anemone. Biomolecules, 2021, 11, 1785.	1.8	9
62	Engineering of a Biologically Active Insulin Dimer. Journal of Medicinal Chemistry, 2021, 64, 17448-17454.	2.9	9
63	Probing the correlation between insulin activity and structural stability through introduction of the rigid A6â€“A11 bond. Journal of Biological Chemistry, 2018, 293, 11928-11943.	1.6	8
64	Molecular mechanisms underlying insulin-like growth factor action: How mutations in the GH: IGF axis lead to short stature. Pediatric Endocrinology Reviews, 2011, 8, 374-81.	1.2	8
65	The interaction of Insulin-like Growth Factors (IGFs) with Insulin-like Growth Factor Binding Proteins (IGFBPs): a review. International Journal of Peptide Research and Therapeutics, 2001, 8, 147-153.	0.1	7
66	Comparative proteomic analysis implicates eEF2 as a novel target of PI3KÎ³ in the MDA-MB-231 metastatic breast cancer cell line. Proteome Science, 2013, 11, 4.	0.7	6
67	Fluorescent IGF-II analogues for FRET-based investigations into the binding of IGF-II to the IGF-1R. Organic and Biomolecular Chemistry, 2016, 14, 2698-2705.	1.5	6
68	Chemical Synthesis of a Fluorescent IGF-II Analogue. International Journal of Peptide Research and Therapeutics, 2013, 19, 61-69.	0.9	5
69	Determinants of IGF-II influencing stability, receptor binding and activation. Scientific Reports, 2022, 12, 4695.	1.6	5
70	Production and Characterization of Monoclonal Antibodies Against Insulin-Like Growth Factor Type 1 Receptor. Hybridoma, 2006, 25, 230-237.	0.5	4
71	Solid Phase Synthesis of an Analogue of Insulin, A0:R glargine, That Exhibits Decreased Mitogenic Activity. International Journal of Peptide Research and Therapeutics, 2010, 16, 153-158.	0.9	4
72	Editorial: Current Perspectives on Insulin-Like Growth Factor Binding Protein (IGFBP) Research. Frontiers in Endocrinology, 2018, 9, 667.	1.5	4

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73	Insulin-like growth factor-I (IGF-I): Solution properties and NMR chemical shift assignments near physiological pH. Growth Hormone and IGF Research, 2009, 19, 226-231.	0.5	3
74	Immunohistochemical analysis of pancreatic islets of platypus (Ornithorhynchus anatinus) and echidna (Tachyglossus aculeatus ssp.). Journal of Anatomy, 2015, 226, 373-380.	0.9	3
75	IGFâ€dependent dynamic modulation of a protease cleavage site in the intrinsically disordered linker domain of human <scp>IGFBP2</scp>. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1732-1743.	1.5	3
76	Title is missing!. International Journal of Peptide Research and Therapeutics, 2001, 8, 147-153.	0.1	2
77	Chemical Synthesis and Characterization of a Nonfibrillating Glycoglucagon. Bioconjugate Chemistry, 2021, 32, 2148-2153.	1.8	2
78	Minimizing Mitogenic Potency of Insulin Analogues Through Modification of a Disulfide Bond. Frontiers in Endocrinology, 0, 13, .	1.5	2
79	Vortex Fluidic Mediated Oxidative Sulfitolysis of Oxytocin. Molecules, 2022, 27, 1109.	1.7	1