

Briony E Forbes

List of Publications by Year in descending order

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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	Vortex Fluidic Mediated Oxidative Sulfitolysis of Oxytocin. <i>Molecules</i> , 2022, 27, 1109.	1.7	1
2	Determinants of IGF-II influencing stability, receptor binding and activation. <i>Scientific Reports</i> , 2022, 12, 4695.	1.6	5
3	Symmetric and asymmetric receptor conformation continuum induced by a new insulin. <i>Nature Chemical Biology</i> , 2022, 18, 511-519.	3.9	20
4	IGF- α -dependent dynamic modulation of a protease cleavage site in the intrinsically disordered linker domain of human IGFBP2. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 1732-1743.	1.5	3
5	How insulin-like growth factor I binds to a hybrid insulin receptor type 1 insulin-like growth factor receptor. <i>Structure</i> , 2022, 30, 1098-1108.e6.	1.6	16
6	Insulin-like growth factors: Ligands, binding proteins, and receptors. <i>Molecular Metabolism</i> , 2021, 52, 101245.	3.0	90
7	Chemical Synthesis and Characterization of a Nonfibrillating Glycoglucagon. <i>Bioconjugate Chemistry</i> , 2021, 32, 2148-2153.	1.8	2
8	Identification, Synthesis, Conformation and Activity of an Insulin-like Peptide from a Sea Anemone. <i>Biomolecules</i> , 2021, 11, 1785.	1.8	9
9	Engineering of a Biologically Active Insulin Dimer. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17448-17454.	2.9	9
10	Total Chemical Synthesis of a Nonfibrillating Human Glycoinsulin. <i>Journal of the American Chemical Society</i> , 2020, 142, 1164-1169.	6.6	41
11	Understanding IGF-II Action through Insights into Receptor Binding and Activation. <i>Cells</i> , 2020, 9, 2276.	1.8	34
12	Disorders of IGFs and IGF-1R signaling pathways. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 111035.	1.6	66
13	A structurally minimized yet fully active insulin based on cone-snail venom insulin principles. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 615-624.	3.6	36
14	How IGF-II Binds to the Human Type 1 Insulin-like Growth Factor Receptor. <i>Structure</i> , 2020, 28, 786-798.e6.	1.6	36
15	The ability to utilise ammonia as nitrogen source is cell type specific and intricately linked to GDH, AMPK and mTORC1. <i>Scientific Reports</i> , 2019, 9, 1461.	1.6	24
16	Fish-hunting cone snail venoms are a rich source of minimized ligands of the vertebrate insulin receptor. <i>ELife</i> , 2019, 8, .	2.8	49
17	How ligand binds to the type 1 insulin-like growth factor receptor. <i>Nature Communications</i> , 2018, 9, 821.	5.8	99
18	Editorial: Current Perspectives on Insulin-Like Growth Factor Binding Protein (IGFBP) Research. <i>Frontiers in Endocrinology</i> , 2018, 9, 667.	1.5	4

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19	Probing the correlation between insulin activity and structural stability through introduction of the rigid A6-A11 bond. <i>Journal of Biological Chemistry</i> , 2018, 293, 11928-11943.	1.6	8
20	Insulin in motion: The A6-A11 disulfide bond allosterically modulates structural transitions required for insulin activity. <i>Scientific Reports</i> , 2017, 7, 17239.	1.6	35
21	Monotreme glucagon-like peptide-1 in venom and gut: one gene – two very different functions. <i>Scientific Reports</i> , 2016, 6, 37744.	1.6	12
22	Two years in IGF research. <i>Growth Hormone and IGF Research</i> , 2016, 30-31, 70-74.	0.5	12
23	A minimized human insulin-receptor-binding motif revealed in a <i>Conus geographus</i> venom insulin. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 916-920.	3.6	70
24	Total Chemical Synthesis of an Intra-chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14743-14747.	7.2	45
25	Total Chemical Synthesis of an Intra-chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. <i>Angewandte Chemie</i> , 2016, 128, 14963-14967.	1.6	18
26	Fluorescent IGF-II analogues for FRET-based investigations into the binding of IGF-II to the IGF-1R. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2698-2705.	1.5	6
27	Ligand-Binding Affinity at the Insulin Receptor Isoform-A and Subsequent IR-A Tyrosine Phosphorylation Kinetics are Important Determinants of Mitogenic Biological Outcomes. <i>Frontiers in Endocrinology</i> , 2015, 6, 107.	1.5	25
28	Delineation of the IGF-II C domain elements involved in binding and activation of the IR-A, IR-B and IGF-1R. <i>Growth Hormone and IGF Research</i> , 2015, 25, 20-27.	0.5	15
29	Immunohistochemical analysis of pancreatic islets of platypus (<i>Ornithorhynchus anatinus</i>) and echidna (<i>Tachyglossus aculeatus</i> ssp.). <i>Journal of Anatomy</i> , 2015, 226, 373-380.	0.9	3
30	Insulin-like Growth Factor-II (IGF-II) and IGF-II Analogs with Enhanced Insulin Receptor- α Binding Affinity Promote Neural Stem Cell Expansion. <i>Journal of Biological Chemistry</i> , 2014, 289, 4626-4633.	1.6	46
31	2-Nitroveratryl as a Photocleavable Thiol-Protecting Group for Directed Disulfide Bond Formation in the Chemical Synthesis of Insulin. <i>Chemistry - A European Journal</i> , 2014, 20, 9549-9552.	1.7	48
32	Exogenous administration of protease-resistant, non-matrix-binding IGF1BP2 inhibits tumour growth in a murine model of breast cancer. <i>British Journal of Cancer</i> , 2014, 110, 2855-2864.	2.9	22
33	Comparative proteomic analysis implicates eEF2 as a novel target of PI3K ³ in the MDA-MB-231 metastatic breast cancer cell line. <i>Proteome Science</i> , 2013, 11, 4.	0.7	6
34	Chemical Synthesis of a Fluorescent IGF-II Analogue. <i>International Journal of Peptide Research and Therapeutics</i> , 2013, 19, 61-69.	0.9	5
35	Changes in the ghrelin hormone pathway maybe part of an unusual gastric system in monotremes. <i>General and Comparative Endocrinology</i> , 2013, 191, 74-82.	0.8	9
36	An Exon Splice Enhancer Primes IGF2:IGF2R Binding Site Structure and Function Evolution. <i>Science</i> , 2012, 338, 1209-1213.	6.0	40

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37	Insulin-like growth factor binding protein-2: NMR analysis and structural characterization of the N-terminal domain. <i>Biochimie</i> , 2012, 94, 608-616.	1.3	15
38	The insulin-like growth factor mutation database (IGFmdb). <i>Growth Hormone and IGF Research</i> , 2012, 22, 158-166.	0.5	10
39	Insulin-Like Growth Factor Binding Proteins: A Structural Perspective. <i>Frontiers in Endocrinology</i> , 2012, 3, 38.	1.5	159
40	Understanding the Mechanism of Insulin and Insulin-Like Growth Factor (IGF) Receptor Activation by IGF-II. <i>PLoS ONE</i> , 2011, 6, e27488.	1.1	55
41	Molecular mechanisms underlying insulin-like growth factor action: How mutations in the GH: IGF axis lead to short stature. <i>Pediatric Endocrinology Reviews</i> , 2011, 8, 374-81.	1.2	8
42	Solid Phase Synthesis of an Analogue of Insulin, A0:R glargine, That Exhibits Decreased Mitogenic Activity. <i>International Journal of Peptide Research and Therapeutics</i> , 2010, 16, 153-158.	0.9	4
43	Keeping IGF-II under control: Lessons from the IGF-II-IGF2R crystal structure. <i>Trends in Biochemical Sciences</i> , 2009, 34, 612-619.	3.7	88
44	A Novel Approach to Identify Two Distinct Receptor Binding Surfaces of Insulin-like Growth Factor II. <i>Journal of Biological Chemistry</i> , 2009, 284, 7656-7664.	1.6	33
45	Insulin-like growth factor-I (IGF-I): Solution properties and NMR chemical shift assignments near physiological pH. <i>Growth Hormone and IGF Research</i> , 2009, 19, 226-231.	0.5	3
46	Structure and functional analysis of the IGF-II/IGF2R interaction. <i>EMBO Journal</i> , 2008, 27, 265-276.	3.5	101
47	Assessing the potential usefulness of IGF-related peptides and adiponectin for predicting disease risk. <i>Growth Hormone and IGF Research</i> , 2008, 18, 198-204.	0.5	9
48	Alanine Scanning of a Putative Receptor Binding Surface of Insulin-like Growth Factor-I. <i>Journal of Biological Chemistry</i> , 2008, 283, 20821-20829.	1.6	59
49	Structural Basis for the Lower Affinity of the Insulin-like Growth Factors for the Insulin Receptor. <i>Journal of Biological Chemistry</i> , 2008, 283, 2604-2613.	1.6	58
50	An Investigation of the Ligand Binding Properties and Negative Cooperativity of Soluble Insulin-like Growth Factor Receptors. <i>Journal of Biological Chemistry</i> , 2008, 283, 5355-5363.	1.6	36
51	Differential Activation of Insulin Receptor Substrates 1 and 2 by Insulin-Like Growth Factor-Activated Insulin Receptors. <i>Molecular and Cellular Biology</i> , 2007, 27, 3569-3577.	1.1	86
52	A Novel Binding Site for the Human Insulin-like Growth Factor-II (IGF-II)/Mannose 6-Phosphate Receptor on IGF-II. <i>Journal of Biological Chemistry</i> , 2007, 282, 18886-18894.	1.6	35
53	Precise mapping of an IGF-I-binding site on the IGF-1R. <i>Biochemical Journal</i> , 2007, 401, 269-277.	1.7	46
54	Cooperativity of the N- and C-Terminal Domains of Insulin-like Growth Factor (IGF) Binding Protein 2 in IGF Binding. <i>Biochemistry</i> , 2007, 46, 13720-13732.	1.2	26

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55	The N-Terminal Subdomain of Insulin-like Growth Factor (IGF) Binding Protein 6. Structure and Interaction with IGFs. <i>Biochemistry</i> , 2007, 46, 3065-3074.	1.2	20
56	Structural Insights into the Interaction of Insulin-like Growth Factor 2 with IGF2R Domain 11. <i>Structure</i> , 2007, 15, 1065-1078.	1.6	42
57	Structure, Dynamics and Heparin Binding of the C-terminal Domain of Insulin-like Growth Factor-binding Protein-2 (IGFBP-2). <i>Journal of Molecular Biology</i> , 2006, 364, 690-704.	2.0	50
58	Computational model for the IGF-II/IGF2r complex that is predictive of mutational and surface plasmon resonance data. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 758-768.	1.5	11
59	Differential Activation of Insulin Receptor Isoforms by Insulin-Like Growth Factors Is Determined by the C Domain. <i>Endocrinology</i> , 2006, 147, 1029-1036.	1.4	38
60	Production and Characterization of Monoclonal Antibodies Against Insulin-Like Growth Factor Type 1 Receptor. <i>Hybridoma</i> , 2006, 25, 230-237.	0.5	4
61	Interaction of insulin-like growth factor (IGF)-I and -II with IGF binding protein-2: mapping the binding surfaces by nuclear magnetic resonance. <i>Journal of Molecular Endocrinology</i> , 2005, 34, 685-698.	1.1	25
62	Structural and Functional Characteristics of the Val44Met Insulin-Like Growth Factor I Missense Mutation: Correlation with Effects on Growth and Development. <i>Molecular Endocrinology</i> , 2005, 19, 711-721.	3.7	62
63	Homozygous and Heterozygous Expression of a Novel Insulin-Like Growth Factor-I Mutation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 2855-2864.	1.8	285
64	Molecular interactions of the IGF system. <i>Cytokine and Growth Factor Reviews</i> , 2005, 16, 421-439.	3.2	346
65	Role of N- and C-terminal Residues of Insulin-like Growth Factor (IGF)-binding Protein-3 in Regulating IGF Complex Formation and Receptor Activation. <i>Journal of Biological Chemistry</i> , 2004, 279, 53232-53240.	1.6	42
66	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. <i>Molecular Endocrinology</i> , 2004, 18, 2502-2512.	3.7	177
67	Characteristics of binding of insulin-like growth factor (IGF)-I and IGF-II analogues to the type 1 IGF receptor determined by BIAcore analysis. <i>FEBS Journal</i> , 2002, 269, 961-968.	0.2	53
68	The interaction of Insulin-like Growth Factors (IGFs) with Insulin-like Growth Factor Binding Proteins (IGFBPs): a review. <i>International Journal of Peptide Research and Therapeutics</i> , 2001, 8, 147-153.	0.1	7
69	Title is missing!. <i>International Journal of Peptide Research and Therapeutics</i> , 2001, 8, 147-153.	0.1	2
70	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. <i>Journal of Biological Chemistry</i> , 2001, 276, 27120-27128.	1.6	53
71	Secretion in <i>Escherichia coli</i> and phage-display of recombinant insulin-like growth factor binding protein-2. <i>Journal of Biotechnology</i> , 1998, 61, 95-108.	1.9	20
72	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. <i>Journal of Biological Chemistry</i> , 1998, 273, 4647-4652.	1.6	74

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73	Alanine Screening Mutagenesis Establishes Tyrosine 60 of Bovine Insulin-like Growth Factor Binding Protein-2 as a Determinant of Insulin-like Growth Factor Binding. <i>Journal of Biological Chemistry</i> , 1998, 273, 19691-19698.	1.6	34
74	Covalent Modification of an Exposed Surface Turn Alters the Global Conformation of the Biotin Carrier Domain of Escherichia coli Acetyl-CoA Carboxylase. <i>Journal of Biological Chemistry</i> , 1997, 272, 26017-26022.	1.6	25
75	The Insulin-like Growth Factor (IGF) Binding Site of Bovine Insulin-like Growth Factor Binding Protein-2 (bIGFBP-2) Probed by Iodination. <i>Journal of Biological Chemistry</i> , 1996, 271, 30529-30536.	1.6	29
76	Solution structure of human insulin-like growthfactor II. Relationship to receptor and binding protein interactions. <i>Journal of Molecular Biology</i> , 1995, 248, 385-401.	2.0	44
77	Classification of the insulin-like growth factor binding proteins into three distinct categories according to their binding specificities. <i>Biochemical and Biophysical Research Communications</i> , 1988, 157, 196-202.	1.0	79
78	Detection of individual virus-infected cells by filter in situ hybridization. <i>Molecular and Cellular Probes</i> , 1988, 2, 245-253.	0.9	9
79	Minimizing Mitogenic Potency of Insulin Analogues Through Modification of a Disulfide Bond. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	2