

Greg Winter

List of Publications by Year in descending order

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145
papers

30,942
citations

6613

79
h-index

10158

140
g-index

147
all docs

147
docs citations

147
times ranked

12313
citing authors

#	ARTICLE	IF	CITATIONS
1	Phage antibodies: filamentous phage displaying antibody variable domains. <i>Nature</i> , 1990, 348, 552-554.	27.8	2,251
2	By-passing immunization. <i>Journal of Molecular Biology</i> , 1991, 222, 581-597.	4.2	1,621
3	Reshaping human antibodies for therapy. <i>Nature</i> , 1988, 332, 323-327.	27.8	1,543
4	Making Antibodies by Phage Display Technology. <i>Annual Review of Immunology</i> , 1994, 12, 433-455.	21.8	1,533
5	Replacing the complementarity-determining regions in a human antibody with those from a mouse. <i>Nature</i> , 1986, 321, 522-525.	27.8	1,304
6	Making antibody fragments using phage display libraries. <i>Nature</i> , 1991, 352, 624-628.	27.8	1,176
7	Hydrogen bonding and biological specificity analysed by protein engineering. <i>Nature</i> , 1985, 314, 235-238.	27.8	1,143
8	Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> . <i>Nature</i> , 1989, 341, 544-546.	27.8	1,038
9	Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains. <i>Nucleic Acids Research</i> , 1991, 19, 4133-4137.	14.5	1,028
10	Man-made antibodies. <i>Nature</i> , 1991, 349, 293-299.	27.8	972
11	The repertoire of human germline VH sequences reveals about fifty groups of VH segments with different hypervariable loops. <i>Journal of Molecular Biology</i> , 1992, 227, 776-798.	4.2	655
12	The use of double mutants to detect structural changes in the active site of the tyrosyl-tRNA synthetase (<i>Bacillus stearothermophilus</i>). <i>Cell</i> , 1984, 38, 835-840.	28.9	604
13	Phage-encoded combinatorial chemical libraries based on bicyclic peptides. <i>Nature Chemical Biology</i> , 2009, 5, 502-507.	8.0	595
14	The binding site for C1q on IgG. <i>Nature</i> , 1988, 332, 738-740.	27.8	567
15	Improved oligonucleotide site-directed mutagenesis using M13 vectors. <i>Nucleic Acids Research</i> , 1985, 13, 4431-4443.	14.5	566
16	Selection of phage antibodies by binding affinity. <i>Journal of Molecular Biology</i> , 1992, 226, 889-896.	4.2	538
17	Antibody framework residues affecting the conformation of the hypervariable loops. <i>Journal of Molecular Biology</i> , 1992, 224, 487-499.	4.2	522
18	By-passing immunisation. <i>Journal of Molecular Biology</i> , 1992, 227, 381-388.	4.2	441

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19	Structural repertoire of the human VH segments. Journal of Molecular Biology, 1992, 227, 799-817.	4.2	412
20	Redesigning enzyme structure by site-directed mutagenesis: tyrosyl tRNA synthetase and ATP binding. Nature, 1982, 299, 756-758.	27.8	342
21	Byâ€œPassing Immunization: Building High Affinity Human Antibodies by Chain Shuffling. Nature Biotechnology, 1992, 10, 779-783.	17.5	317
22	Site-directed mutagenesis as a probe of enzyme structure and catalysis: tyrosyl-tRNA synthetase cysteine-35 to glycine-35 mutation. Biochemistry, 1983, 22, 3581-3586.	2.5	296
23	Localization of the binding site for the human high-affinity Fc receptor on IgG. Nature, 1988, 332, 563-564.	27.8	284
24	Sequence of the human immunoglobulin diversity (D) segment locus: a systematic analysis provides no evidence for the use of DIR segments, inverted D segments, â€œminorâ€•D segments or D-D recombination 1 Edited By J. Karn. Journal of Molecular Biology, 1997, 270, 587-597.	4.2	283
25	Targeting by affinityâ€œmatured recombinant antibody fragments of an angiogenesis associated fibronectin isoform. Nature Biotechnology, 1997, 15, 1271-1275.	17.5	280
26	Cloning of influenza cDNA into M13: the sequence of the RNA segment encoding the A/PR/8/34 matrix protein. Nucleic Acids Research, 1980, 8, 1965-1974.	14.5	269
27	A map of the human immunoglobulin VH locus completed by analysis of the telomeric region of chromosome 14q. Nature Genetics, 1994, 7, 162-168.	21.4	247
28	Aggregation-resistant domain antibodies selected on phage by heat denaturation. Nature Biotechnology, 2004, 22, 1161-1165.	17.5	247
29	Proteolytic selection for protein folding using filamentous bacteriophages. Folding & Design, 1998, 3, 321-328.	4.5	241
30	Nucleotide sequence of the haemagglutinin gene of a human influenza virus H1 subtype. Nature, 1981, 292, 72-75.	27.8	239
31	Structure of the neuraminidase gene in human influenza virus A/PR/8/34. Nature, 1981, 290, 213-217.	27.8	230
32	Oligonucleotide primers for polymerase chain reaction amplification of human immunoglobulin variable genes and design of family-specific oligonucleotide probes. European Journal of Immunology, 1991, 21, 985-991.	2.9	229
33	A directory of human germ-line VĤ segments reveals a strong bias in their usage. European Journal of Immunology, 1994, 24, 827-836.	2.9	227
34	Retroviral vectors displaying functional antibody fragments. Nucleic Acids Research, 1993, 21, 1081-1085.	14.5	225
35	Analysis of Heavy and Light Chain Pairings Indicates that Receptor Editing Shapes the Human Antibody Repertoire. Journal of Molecular Biology, 1999, 285, 895-901.	4.2	216
36	Mimicking Somatic Hypermutation: Affinity Maturation of Antibodies Displayed on Bacteriophage Using a Bacterial Mutator Strain. Journal of Molecular Biology, 1996, 260, 359-368.	4.2	211

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37	The Imprint of Somatic Hypermutation on the Repertoire of Human Germline V Genes. Journal of Molecular Biology, 1996, 256, 813-817.	4.2	209
38	Sequence and Evolution of the Human Germline V α Repertoire. Journal of Molecular Biology, 1996, 264, 220-232.	4.2	204
39	Expression of an antibody fragment at high levels in the bacterial cytoplasm. Journal of Molecular Biology, 1998, 280, 117-127.	4.2	204
40	Does the higher order structure of the influenza virus ribonucleoprotein guide sequence rearrangements in influenza viral RNA?. Cell, 1983, 34, 619-627.	28.9	201
41	Crystal structure of a diabody, a bivalent antibody fragment. Structure, 1994, 2, 1217-1226.	3.3	185
42	Guiding the Selection of Human Antibodies from Phage Display Repertoires to a Single Epitope of an Antigen. Nature Biotechnology, 1994, 12, 899-903.	17.5	173
43	Human Antibody Fragments Specific for Human Blood Group Antigens from a Phage Display Library. Nature Biotechnology, 1993, 11, 1145-1149.	17.5	172
44	Reconstruction by site-directed mutagenesis of the transition state for the activation of tyrosine by the tyrosyl-tRNA synthetase: a mobile loop envelopes the transition state in an induced-fit mechanism. Biochemistry, 1988, 27, 1581-1587.	2.5	171
45	Nucleotide sequences of influenza virus segments 1 and 3 reveal mosaic structure of a small viral RNA segment. Cell, 1982, 28, 303-313.	28.9	170
46	Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires. Nucleic Acids Research, 1993, 21, 2265-2266.	14.5	168
47	Open sandwich ELISA: A novel immunoassay based on the interchain interaction of antibody variable region. Nature Biotechnology, 1996, 14, 1714-1718.	17.5	159
48	Bicyclic Peptide Inhibitor Reveals Large Contact Interface with a Protease Target. ACS Chemical Biology, 2012, 7, 817-821.	3.4	156
49	A large increase in enzyme's substrate affinity by protein engineering. Nature, 1984, 307, 187-188.	27.8	154
50	Cloning and sequencing of human immunoglobulin's gene segments. European Journal of Immunology, 1993, 23, 1456-1461.	2.9	154
51	In-cell PCR from mRNA: amplifying and linking the rearranged immunoglobulin heavy and light chain V-genes within single cells. Nucleic Acids Research, 1992, 20, 3831-3837.	14.5	150
52	The Contribution of Contact and Non-contact Residues of Antibody in the Affinity of Binding to Antigen. Journal of Molecular Biology, 1993, 234, 958-964.	4.2	147
53	Building Antibodies from their Genes. Immunological Reviews, 1992, 130, 41-68.	6.0	146
54	Phage antibodies with pan-species recognition of the oncofoetal angiogenesis marker fibronectin ED-B domain. International Journal of Cancer, 1996, 68, 397-405.	5.1	145

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55	The creation of diversity in the human immunoglobulin V λ repertoire. Journal of Molecular Biology, 1997, 268, 69-77.	4.2	141
56	Humanized antibodies. Trends in Immunology, 1993, 14, 243-246.	7.5	140
57	Organization of the human immunoglobulin lambda light-chain locus on chromosome 22q11.2. Human Molecular Genetics, 1995, 4, 983-991.	2.9	138
58	Selection of β -Lactamase on Filamentous Bacteriophage by Catalytic Activity. Journal of Molecular Biology, 1994, 237, 415-422.	4.2	134
59	Crystal Structure of HEL4, a Soluble, Refoldable Human VH Single Domain with a Germ-line Scaffold. Journal of Molecular Biology, 2004, 337, 893-903.	4.2	134
60	Selection of large diversities of antiidiotypic antibody fragments by phage display. Journal of Molecular Biology, 2002, 315, 1087-1097.	4.2	131
61	Characterization of Events during the Late Stages of HPV16 Infection in Vivo Using High-Affinity Synthetic Fabs to E4. Virology, 1997, 238, 40-52.	2.4	130
62	A model of synthetase/transfer RNA interaction as deduced by protein engineering. Nature, 1986, 320, 371-373.	27.8	127
63	High-affinity Antigen Binding by Chelating Recombinant Antibodies (CRAbs). Journal of Molecular Biology, 1995, 246, 367-373.	4.2	125
64	The structure of the gene encoding the nucleoprotein of human influenza virus A/PR/8/34. Virology, 1981, 114, 423-428.	2.4	115
65	Thermodynamically Stable Aggregation-Resistant Antibody Domains through Directed Evolution. Journal of Molecular Biology, 2008, 376, 926-931.	4.2	115
66	The use of synthetic oligodeoxynucleotide primers in cloning and sequencing segment 8 of influenza virus (A/PR/8/34). Nucleic Acids Research, 1981, 9, 237-246.	14.5	113
67	The Amino Acid Sequence of the Tyrosyl-tRNA Synthetase from Bacillus stearothermophilus. FEBS Journal, 1983, 132, 383-387.	0.2	113
68	[5] Screening of phage antibody libraries. Methods in Enzymology, 1996, 267, 83-109.	1.0	109
69	A strategy for the isolation of catalytic activities from repertoires of enzymes displayed on phage 1 Edited by J. Karn. Journal of Molecular Biology, 1999, 286, 617-633.	4.2	107
70	Expression of an antibody Fv fragment in myeloma cells. Journal of Molecular Biology, 1988, 203, 825-828.	4.2	104
71	Identification of a Glioblastoma-Associated Tenascin-C Isoform by a High Affinity Recombinant Antibody. American Journal of Pathology, 1999, 154, 1345-1352.	3.8	104
72	Encoded libraries of chemically modified peptides. Current Opinion in Chemical Biology, 2015, 26, 89-98.	6.1	99

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73	Small binding proteins selected from a combinatorial repertoire of knottins displayed on phage. Journal of Molecular Biology, 1998, 277, 317-332.	4.2	98
74	Probing histidine-substrate interactions in tyrosyl-tRNA synthetase using asparagine and glutamine replacements. Biochemistry, 1985, 24, 5106-5109.	2.5	96
75	Isolation of a Peptide Antagonist to the Thrombin Receptor using Phage Display. Journal of Molecular Biology, 1994, 244, 361-369.	4.2	95
76	Nucleotide-sequence heterogeneity and sequence rearrangements in influenza virus cDNA. Gene, 1981, 15, 207-214.	2.2	84
77	A Method for the Selection of Catalytic Activity Using Phage Display and Proximity Coupling. Angewandte Chemie - International Edition, 1999, 38, 1124-1127.	13.8	83
78	Specific killing of lymphoma cells by cytotoxic T-cells mediated by a bispecific diabody. Protein Engineering, Design and Selection, 1996, 9, 299-305.	2.1	81
79	Repertoires of aggregation-resistant human antibody domains. Protein Engineering, Design and Selection, 2007, 20, 413-416.	2.1	79
80	Somatic insertions and deletions shape the human antibody repertoire 1 Edited by J. Karn. Journal of Molecular Biology, 1999, 294, 701-710.	4.2	78
81	Engineering bispecific antibodies. Current Opinion in Biotechnology, 1993, 4, 446-449.	6.6	77
82	Human immunoglobulin V _H and D segments on chromosomes 15q11.2 and 16p11.2. Human Molecular Genetics, 1994, 3, 853-860.	2.9	76
83	In Vitro Assembly of Repertoires of Antibody Chains on the Surface of Phage by Renaturation. Journal of Molecular Biology, 1994, 239, 68-78.	4.2	76
84	Retargeting serum immunoglobulin with bispecific diabodies. Nature Biotechnology, 1997, 15, 632-636.	17.5	74
85	Inhibition of Papillomavirus Protein Function in Cervical Cancer Cells by Intrabody Targeting. Journal of Molecular Biology, 2006, 355, 360-378.	4.2	70
86	“Sticky feet”-directed mutagenesis and its application to swapping antibody domains. Nucleic Acids Research, 1989, 17, 10163-10170.	14.5	68
87	Bicyclic Peptides with Optimized Ring Size Inhibit Human Plasma Kallikrein and its Orthologues While Sparing Paralogous Proteases. ChemMedChem, 2012, 7, 1173-1176.	3.2	66
88	Reversible dissociation of dimeric tyrosyl-tRNA synthetase by mutagenesis at the subunit interface. Biochemistry, 1985, 24, 5852-5857.	2.5	63
89	Protein engineering. Trends in Biochemical Sciences, 1992, 17, 292-294.	7.5	63
90	Humanized antibodies. Trends in Pharmacological Sciences, 1993, 14, 139-143.	8.7	63

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91	Crystallization and preliminary X-ray diffraction study of the bacterially expressed Fv from the monoclonal anti-lysozyme antibody D1.3 and of its complex with the antigen, lysozyme. <i>Journal of Molecular Biology</i> , 1990, 213, 617-619.	4.2	60
92	Nucleotide sequence of human influenza A/PR/8/34 segment 2. <i>Nucleic Acids Research</i> , 1982, 10, 2135-2143.	14.5	59
93	Blood clearance in the rat of a recombinant mouse monoclonal antibody lacking the N-linked oligosaccharide side chains of the CH2 domains. <i>Molecular Immunology</i> , 1992, 29, 213-220.	2.2	56
94	Complement recruitment using bispecific diabodies. <i>Nature Biotechnology</i> , 1997, 15, 629-631.	17.5	56
95	Cell selection strategies for making antibodies from variable gene libraries: trapping the memory pool. <i>European Journal of Immunology</i> , 1992, 22, 867-870.	2.9	55
96	Filter screening of antibody Fab fragments secreted from individual bacterial colonies: Specific detection of antigen binding with a two-membrane system. <i>Analytical Biochemistry</i> , 1991, 196, 151-155.	2.4	53
97	EcoK selection vectors for shotgun cloning into M13 and deletion mutagenesis. <i>Nucleic Acids Research</i> , 1985, 13, 8561-8571.	14.5	52
98	Enzyme immunoassays using bispecific diabodies. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1997, 3, 137-144.	2.4	52
99	Fine structure-activity analysis of mutations at position 51 of tyrosyl-tRNA synthetase. <i>Biochemistry</i> , 1985, 24, 5858-5861.	2.5	43
100	Comparable heavy and light chain pairings in normal and systemic lupus erythematosus IgG+ B cells. <i>European Journal of Immunology</i> , 2000, 30, 254-261.	2.9	43
101	The "wildtype" conformation of p53: epitope mapping using hybrid proteins. <i>Oncogene</i> , 2001, 20, 2318-2324.	5.9	43
102	Improving the display of proteins on filamentous phage. <i>Research in Microbiology</i> , 2001, 152, 187-191.	2.1	42
103	Calmodulin as a Versatile Tag for Antibody Fragments. <i>Nature Biotechnology</i> , 1995, 13, 373-377.	17.5	41
104	Radioactive labeling of recombinant antibody fragments by phosphorylation using human casein kinase II and [³² P]-ATP. <i>Nature Biotechnology</i> , 1996, 14, 485-490.	17.5	41
105	Synthetic human antibodies and a strategy for protein engineering. <i>FEBS Letters</i> , 1998, 430, 92-94.	2.8	40
106	Diabodies: small bispecific antibody fragments. <i>Cancer Immunology, Immunotherapy</i> , 1997, 45, 128-130.	4.2	39
107	Early Protein Evolution: Building Domains from Ligand-binding Polypeptide Segments. <i>Journal of Molecular Biology</i> , 2006, 363, 460-468.	4.2	39
108	HAPPY mapping of a YAC reveals alternative haplotypes in the human immunoglobulin VH locus. <i>Nucleic Acids Research</i> , 1993, 21, 4524-4529.	14.5	36

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109	The structure of two subgenomic RNAs from human influenza virus A/PR/8/34. Nucleic Acids Research, 1981, 9, 6907-6915.	14.5	34
110	Selection of optical biosensors from chemisynthetic antibody libraries. Protein Engineering, Design and Selection, 2004, 17, 709-713.	2.1	32
111	Subunit disassembly and inhibition of TNF α by a semi-synthetic bicyclic peptide. Protein Engineering, Design and Selection, 2015, 28, 45-52.	2.1	32
112	Cell-growth control by monomeric antigen: the cell surface expression of lysozyme-specific Ig V-domains fused to truncated Epo receptor. Journal of Immunological Methods, 2000, 241, 159-170.	1.4	31
113	Immunoglobulin lambda light chain orphans on human chromosome 8q11.2. European Journal of Immunology, 1997, 27, 1260-1265.	2.9	29
114	Tapping diversity lost in transformationsâ€”in vitro amplification of ligation reactions. Nucleic Acids Research, 2006, 34, e108-e108.	14.5	28
115	An Antibody Fragment from a Phage Display Library Competes for Ligand Binding to the Low Density Lipoprotein Receptor Family and Inhibits Rhinovirus Infection. Journal of Biological Chemistry, 1995, 270, 24078-24085.	3.4	27
116	Structure-activity relationships in engineered proteins: characterization of disruptive deletions in the .alpha.-ammonium group binding site of tyrosyl-tRNA synthetase. Biochemistry, 1987, 26, 6038-6043.	2.5	26
117	Recombinant Human Single Chain Fv Antibodies Recognizing Human Interleukin-6. Journal of Biological Chemistry, 1998, 273, 2858-2865.	3.4	26
118	Recombinant mouse monoclonal antibodies with single amino acid substitutions affecting C1q and high affinity Fc receptor binding have identical serum half-lives in the BALB/c mouse. Molecular Immunology, 1992, 29, 221-227.	2.2	25
119	A Complete Map of the Human Immunoglobulin V _H Locus. Annals of the New York Academy of Sciences, 1995, 764, 43-46.	3.8	25
120	Towards the Design of an Antibody that Recognises a Given Protein Epitope. Journal of Molecular Biology, 1999, 285, 909-915.	4.2	22
121	Identification of Protein Domains by Shotgun Proteolysis. Journal of Molecular Biology, 2006, 358, 364-371.	4.2	22
122	Engineering enzymes. Trends in Biotechnology, 1984, 2, 115-119.	9.3	21
123	Dominance of intrinsic genetic factors in shaping the human immunoglobulin V λ repertoire. Journal of Molecular Biology, 1999, 294, 457-465.	4.2	18
124	Phage antibodies against an unstable hapten: Oxygen sensitive reduced flavin. FEBS Letters, 1996, 388, 242-244.	2.8	16
125	Interdomain interactions within the gene 3 protein of filamentous phage. FEBS Letters, 1999, 463, 371-374.	2.8	16
126	A native-like artificial protein from antisense DNA. Protein Engineering, Design and Selection, 2004, 17, 13-20.	2.1	16

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127	A transcription terminator in the 5' non-coding region of the tyrosyl tRNA synthetase gene from <i>Bacillus stearothermophilus</i> . <i>FEBS Journal</i> , 1986, 158, 505-510.	0.2	15
128	$\hat{\Gamma}^2$ -Edge Interactions in a Pentadecameric Human Antibody \hat{V}_H Domain. <i>Journal of Molecular Biology</i> , 2007, 367, 603-608.	4.2	13
129	Identification of functional similarities between proteins using directed evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13202-13206.	7.1	11
130	Dimerization of Fab fragments enables ready screening of phage antibodies that affect hepatocyte growth factor/scatter factor activity on target cells. <i>European Journal of Immunology</i> , 1997, 27, 618-623.	2.9	10
131	Stabilization of antibody VH-domains by proteolytic selection. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 28, 173-179.	1.8	10
132	Generating molecular diversity by homologous recombination in <i>Escherichia coli</i> . <i>Protein Engineering, Design and Selection</i> , 2005, 18, 397-404.	2.1	10
133	Molecular Characterization of Human Monoclonal Antibodies Derived from Fusions of Tonsil Lymphocytes with a Human Myeloma Cell Line. <i>Hybridoma</i> , 2001, 20, 287-292.	0.4	7
134	Blood clearance in the mouse of an aglycosyl recombinant monoclonal antibody. <i>Biochemical Society Transactions</i> , 1989, 17, 1061-1062.	3.4	6
135	Making antibody and peptide ligands by repertoire selection technologies. , 1998, 11, 126-127.		6
136	Genetic dissection of tyrosyl-tRNA synthetase. <i>Biochemical Society Transactions</i> , 1984, 12, 224-225.	3.4	4
137	Comparison of the Human Germline and Rearranged V_H Repertoire Reveals Complementarity between Germline Variability and Somatic Mutation. <i>Annals of the New York Academy of Sciences</i> , 1995, 764, 180-182.	3.8	4
138	Engineering of tyrosyl tRNA synthetase. <i>Biochimie</i> , 1985, 67, 737-743.	2.6	2
139	INFLUENZA VIRUS A/PR/8/34 GENES: SEQUENCING BY A SHOTGUN APPROACH. , 1981, , 55-64.		2
140	Sexist ads. <i>Nature</i> , 1986, 321, 106-106.	27.8	1
141	Editorial overview. <i>Current Opinion in Immunology</i> , 1993, 5, 253-255.	5.5	1
142	THE HAEMAGGLUTININ GENE OF INFLUENZA A/PR/8/34. , 1981, , 65-75.		1
143	Studying Enzyme-Substrate Interactions by Site-Directed Mutagenesis. , 1984, , 123-132.		0
144	SEQUENCE REARRANGEMENTS IN INFLUENZA VIRUS RNA AND RIBONUCLEOPROTEIN STRUCTURE. , 1984, , 65-72.		0

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145	Restructuring Enzymes and Antibodies. , 1985, , 139-140.		0