

Greg Winter

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145
papers

27,386
citations

76
h-index

147
g-index

147
ext. papers

28,972
ext. citations

16.1
avg, IF

6.5
L-index

#	Paper	IF	Citations
145	Phage antibodies: filamentous phage displaying antibody variable domains. <i>Nature</i> , 1990 , 348, 552-4	50.4	1954
144	By-passing immunization. Human antibodies from V-gene libraries displayed on phage. <i>Journal of Molecular Biology</i> , 1991 , 222, 581-97	6.5	1440
143	Reshaping human antibodies for therapy. <i>Nature</i> , 1988 , 332, 323-7	50.4	1390
142	Making antibodies by phage display technology. <i>Annual Review of Immunology</i> , 1994 , 12, 433-55	34.7	1355
141	Replacing the complementarity-determining regions in a human antibody with those from a mouse. <i>Nature</i> , 1986 , 321, 522-5	50.4	1120
140	Making antibody fragments using phage display libraries. <i>Nature</i> , 1991 , 352, 624-8	50.4	1028
139	Hydrogen bonding and biological specificity analysed by protein engineering. <i>Nature</i> , 1985 , 314, 235-8	50.4	1023
138	Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> . <i>Nature</i> , 1989 , 341, 544-6	50.4	921
137	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, 4133-7	20.1	918
136	Man-made antibodies. <i>Nature</i> , 1991 , 349, 293-9	50.4	830
135	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, 776-98	6.5	592
134	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, 835-40	56.2	538
133	Improved oligonucleotide site-directed mutagenesis using M13 vectors. <i>Nucleic Acids Research</i> , 1985 , 13, 4431-43	20.1	520
132	The binding site for C1q on IgG. <i>Nature</i> , 1988 , 332, 738-40	50.4	506
131	Selection of phage antibodies by binding affinity. Mimicking affinity maturation. <i>Journal of Molecular Biology</i> , 1992 , 226, 889-96	6.5	479
130	Phage-encoded combinatorial chemical libraries based on bicyclic peptides. <i>Nature Chemical Biology</i> , 2009 , 5, 502-7	11.7	471
129	Antibody framework residues affecting the conformation of the hypervariable loops. <i>Journal of Molecular Biology</i> , 1992 , 224, 487-99	6.5	457

128	By-passing immunisation. Human antibodies from synthetic repertoires of germline VH gene segments rearranged in vitro. <i>Journal of Molecular Biology</i> , 1992 , 227, 381-8	6.5	391
127	Structural repertoire of the human VH segments. <i>Journal of Molecular Biology</i> , 1992 , 227, 799-817	6.5	377
126	Redesigning enzyme structure by site-directed mutagenesis: tyrosyl tRNA synthetase and ATP binding. <i>Nature</i> , 1982 , 299, 756-8	50.4	306
125	By-passing immunization: building high affinity human antibodies by chain shuffling. <i>Nature Biotechnology</i> , 1992 , 10, 779-83	44.5	270
124	Sequence of the human immunoglobulin diversity (D) segment locus: a systematic analysis provides no evidence for the use of DIR segments, inverted D segments, "minor" D segments or D-D recombination. <i>Journal of Molecular Biology</i> , 1997 , 270, 587-97	6.5	265
123	Site-directed mutagenesis as a probe of enzyme structure and catalysis: tyrosyl-tRNA synthetase cysteine-35 to glycine-35 mutation. <i>Biochemistry</i> , 1983 , 22, 3581-6	3.2	264
122	Localization of the binding site for the human high-affinity Fc receptor on IgG. <i>Nature</i> , 1988 , 332, 563-4	50.4	260
121	Targeting by affinity-matured recombinant antibody fragments of an angiogenesis associated fibronectin isoform. <i>Nature Biotechnology</i> , 1997 , 15, 1271-5	44.5	250
120	A map of the human immunoglobulin VH locus completed by analysis of the telomeric region of chromosome 14q. <i>Nature Genetics</i> , 1994 , 7, 162-8	36.3	229
119	Cloning of influenza cDNA into M13: the sequence of the RNA segment encoding the A/PR/8/34 matrix protein. <i>Nucleic Acids Research</i> , 1980 , 8, 1965-74	20.1	229
118	Aggregation-resistant domain antibodies selected on phage by heat denaturation. <i>Nature Biotechnology</i> , 2004 , 22, 1161-5	44.5	228
117	Proteolytic selection for protein folding using filamentous bacteriophages. <i>Folding & Design</i> , 1998 , 3, 321-8		217
116	Nucleotide sequence of the haemagglutinin gene of a human influenza virus H1 subtype. <i>Nature</i> , 1981 , 292, 72-5	50.4	211
115	A directory of human germ-line V kappa segments reveals a strong bias in their usage. <i>European Journal of Immunology</i> , 1994 , 24, 827-36	6.1	206
114	Oligonucleotide primers for polymerase chain reaction amplification of human immunoglobulin variable genes and design of family-specific oligonucleotide probes. <i>European Journal of Immunology</i> , 1991 , 21, 985-91	6.1	205
113	Structure of the neuraminidase gene in human influenza virus A/PR/8/34. <i>Nature</i> , 1981 , 290, 213-7	50.4	204
112	Analysis of heavy and light chain pairings indicates that receptor editing shapes the human antibody repertoire. <i>Journal of Molecular Biology</i> , 1999 , 285, 895-901	6.5	196
111	Sequence and evolution of the human germline V lambda repertoire. <i>Journal of Molecular Biology</i> , 1996 , 264, 220-32	6.5	193

110	Retroviral vectors displaying functional antibody fragments. <i>Nucleic Acids Research</i> , 1993 , 21, 1081-5	20.1	192
109	Expression of an antibody fragment at high levels in the bacterial cytoplasm. <i>Journal of Molecular Biology</i> , 1998 , 280, 117-27	6.5	189
108	Mimicking somatic hypermutation: affinity maturation of antibodies displayed on bacteriophage using a bacterial mutator strain. <i>Journal of Molecular Biology</i> , 1996 , 260, 359-68	6.5	188
107	The imprint of somatic hypermutation on the repertoire of human germline V genes. <i>Journal of Molecular Biology</i> , 1996 , 256, 813-17	6.5	178
106	Crystal structure of a diabody, a bivalent antibody fragment. <i>Structure</i> , 1994 , 2, 1217-26	5.2	174
105	Does the higher order structure of the influenza virus ribonucleoprotein guide sequence rearrangements in influenza viral RNA?. <i>Cell</i> , 1983 , 34, 619-27	56.2	169
104	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. <i>Biochemistry</i> , 1988 , 27, 1581-7	3.2	160
103	Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires. <i>Nucleic Acids Research</i> , 1993 , 21, 2265-6	20.1	152
102	Human antibody fragments specific for human blood group antigens from a phage display library. <i>Nature Biotechnology</i> , 1993 , 11, 1145-9	44.5	151
101	Nucleotide sequences of influenza virus segments 1 and 3 reveal mosaic structure of a small viral RNA segment. <i>Cell</i> , 1982 , 28, 303-13	56.2	142
100	Phage antibodies with pan-species recognition of the oncofoetal angiogenesis marker fibronectin ED-B domain. <i>International Journal of Cancer</i> , 1996 , 68, 397-405	7.5	141
99	Humanized antibodies. <i>Trends in Immunology</i> , 1993 , 14, 243-6		138
98	Cloning and sequencing of human immunoglobulin V lambda gene segments. <i>European Journal of Immunology</i> , 1993 , 23, 1456-61	6.1	137
97	A large increase in enzyme-substrate affinity by protein engineering. <i>Nature</i> , 1984 , 307, 187-8	50.4	137
96	Open sandwich ELISA: a novel immunoassay based on the interchain interaction of antibody variable region. <i>Nature Biotechnology</i> , 1996 , 14, 1714-8	44.5	135
95	Bicyclic peptide inhibitor reveals large contact interface with a protease target. <i>ACS Chemical Biology</i> , 2012 , 7, 817-21	4.9	133
94	Building antibodies from their genes. <i>Immunological Reviews</i> , 1992 , 130, 41-68	11.3	131
93	Guiding the selection of human antibodies from phage display repertoires to a single epitope of an antigen. <i>Nature Biotechnology</i> , 1994 , 12, 899-903	44.5	130

92	In-cell PCR from mRNA: amplifying and linking the rearranged immunoglobulin heavy and light chain V-genes within single cells. <i>Nucleic Acids Research</i> , 1992 , 20, 3831-7	20.1	129
91	The contribution of contact and non-contact residues of antibody in the affinity of binding to antigen. The interaction of mutant D1.3 antibodies with lysozyme. <i>Journal of Molecular Biology</i> , 1993 , 234, 958-64	6.5	128
90	The creation of diversity in the human immunoglobulin V(lambda) repertoire. <i>Journal of Molecular Biology</i> , 1997 , 268, 69-77	6.5	123
89	A model of synthetase/transfer RNA interaction as deduced by protein engineering. <i>Nature</i> , 1986 , 320, 371-3	50.4	121
88	High-affinity antigen binding by chelating recombinant antibodies (CRAbs). <i>Journal of Molecular Biology</i> , 1995 , 246, 367-73	6.5	120
87	Characterization of events during the late stages of HPV16 infection in vivo using high-affinity synthetic Fabs to E4. <i>Virology</i> , 1997 , 238, 40-52	3.6	119
86	Selection of beta-lactamase on filamentous bacteriophage by catalytic activity. <i>Journal of Molecular Biology</i> , 1994 , 237, 415-22	6.5	119
85	Selection of large diversities of antiidiotypic antibody fragments by phage display. <i>Journal of Molecular Biology</i> , 2002 , 315, 1087-97	6.5	117
84	Crystal structure of HEL4, a soluble, refoldable human V(H) single domain with a germ-line scaffold. <i>Journal of Molecular Biology</i> , 2004 , 337, 893-903	6.5	113
83	Organization of the human immunoglobulin lambda light-chain locus on chromosome 22q11.2. <i>Human Molecular Genetics</i> , 1995 , 4, 983-91	5.6	112
82	The use of synthetic oligodeoxynucleotide primers in cloning and sequencing segment of 8 influenza virus (A/PR/8/34). <i>Nucleic Acids Research</i> , 1981 , 9, 237-45	20.1	99
81	Thermodynamically stable aggregation-resistant antibody domains through directed evolution. <i>Journal of Molecular Biology</i> , 2008 , 376, 926-31	6.5	98
80	Identification of a glioblastoma-associated tenascin-C isoform by a high affinity recombinant antibody. <i>American Journal of Pathology</i> , 1999 , 154, 1345-52	5.8	97
79	A strategy for the isolation of catalytic activities from repertoires of enzymes displayed on phage. <i>Journal of Molecular Biology</i> , 1999 , 286, 617-33	6.5	96
78	The structure of the gene encoding the nucleoprotein of human influenza virus A/PR/8/34. <i>Virology</i> , 1981 , 114, 423-8	3.6	95
77	The amino acid sequence of the tyrosyl-tRNA synthetase from <i>Bacillus stearothermophilus</i> . <i>FEBS Journal</i> , 1983 , 132, 383-7		95
76	Screening of phage antibody libraries. <i>Methods in Enzymology</i> , 1996 , 267, 83-109	1.7	94
75	Expression of an antibody Fv fragment in myeloma cells. <i>Journal of Molecular Biology</i> , 1988 , 203, 825-8	6.5	94

74	Small binding proteins selected from a combinatorial repertoire of knottins displayed on phage. <i>Journal of Molecular Biology</i> , 1998 , 277, 317-32	6.5	91
73	Isolation of a peptide antagonist to the thrombin receptor using phage display. <i>Journal of Molecular Biology</i> , 1994 , 244, 361-9	6.5	88
72	Encoded libraries of chemically modified peptides. <i>Current Opinion in Chemical Biology</i> , 2015 , 26, 89-98	9.7	84
71	Probing histidine-substrate interactions in tyrosyl-tRNA synthetase using asparagine and glutamine replacements. <i>Biochemistry</i> , 1985 , 24, 5106-9	3.2	82
70	Nucleotide-sequence heterogeneity and sequence rearrangements in influenza virus cDNA. <i>Gene</i> , 1981 , 15, 207-14	3.8	77
69	A method for the selection of catalytic activity using phage display and proximity coupling. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1124-7	16.4	72
68	Engineering bispecific antibodies. <i>Current Opinion in Biotechnology</i> , 1993 , 4, 446-9	11.4	71
67	Human immunoglobulin VH and D segments on chromosomes 15q11.2 and 16p11.2. <i>Human Molecular Genetics</i> , 1994 , 3, 853-60	5.6	70
66	Somatic insertions and deletions shape the human antibody repertoire. <i>Journal of Molecular Biology</i> , 1999 , 294, 701-10	6.5	69
65	Specific killing of lymphoma cells by cytotoxic T-cells mediated by a bispecific diabody. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 299-305	1.9	69
64	In vitro assembly of repertoires of antibody chains on the surface of phage by renaturation. <i>Journal of Molecular Biology</i> , 1994 , 239, 68-78	6.5	67
63	Retargeting serum immunoglobulin with bispecific diabodies. <i>Nature Biotechnology</i> , 1997 , 15, 632-6	44.5	66
62	Repertoires of aggregation-resistant human antibody domains. <i>Protein Engineering, Design and Selection</i> , 2007 , 20, 413-6	1.9	65
61	Sticky feet directed mutagenesis and its application to swapping antibody domains. <i>Nucleic Acids Research</i> , 1989 , 17, 10163-70	20.1	64
60	Inhibition of papillomavirus protein function in cervical cancer cells by intrabody targeting. <i>Journal of Molecular Biology</i> , 2006 , 355, 360-78	6.5	59
59	Reversible dissociation of dimeric tyrosyl-tRNA synthetase by mutagenesis at the subunit interface. <i>Biochemistry</i> , 1985 , 24, 5852-7	3.2	59
58	Protein engineering. <i>Trends in Biochemical Sciences</i> , 1992 , 17, 292-5	10.3	58
57	Bicyclic peptides with optimized ring size inhibit human plasma kallikrein and its orthologues while sparing paralogous proteases. <i>ChemMedChem</i> , 2012 , 7, 1173-6	3.7	56

56	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, 617-9	6.5	55
55	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, 213-20	4.3	54
54	Cell selection strategies for making antibodies from variable gene libraries: trapping the memory pool. <i>European Journal of Immunology</i> , 1992 , 22, 867-70	6.1	52
53	Nucleotide sequence of human influenza A/PR/8/34 segment 2. <i>Nucleic Acids Research</i> , 1982 , 10, 2135-43	10.1	52
52	Complement recruitment using bispecific diabodies. <i>Nature Biotechnology</i> , 1997 , 15, 629-31	44.5	51
51	Humanized antibodies. <i>Trends in Pharmacological Sciences</i> , 1993 , 14, 139-43	13.2	51
50	Enzyme immunoassays using bispecific diabodies. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1997 , 3, 137-44		49
49	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, 151-5	3.1	49
48	EcoK selection vectors for shotgun cloning into M13 and deletion mutagenesis. <i>Nucleic Acids Research</i> , 1985 , 13, 8561-71	20.1	47
47	Comparable heavy and light chain pairings in normal and systemic lupus erythematosus IgG(+) B cells. <i>European Journal of Immunology</i> , 2000 , 30, 254-61	6.1	41
46	The wildtype conformation of p53: epitope mapping using hybrid proteins. <i>Oncogene</i> , 2001 , 20, 2318-24	4.2	39
45	Radioactive labeling of recombinant antibody fragments by phosphorylation using human casein kinase II and [γ - ³² P]-ATP. <i>Nature Biotechnology</i> , 1996 , 14, 485-90	44.5	39
44	Improving the display of proteins on filamentous phage. <i>Research in Microbiology</i> , 2001 , 152, 187-91	4	38
43	Fine structure-activity analysis of mutations at position 51 of tyrosyl-tRNA synthetase. <i>Biochemistry</i> , 1985 , 24, 5858-61	3.2	38
42	Diabodies: small bispecific antibody fragments. <i>Cancer Immunology, Immunotherapy</i> , 1997 , 45, 128-30	7.4	37
41	Early protein evolution: building domains from ligand-binding polypeptide segments. <i>Journal of Molecular Biology</i> , 2006 , 363, 460-8	6.5	36
40	Synthetic human antibodies and a strategy for protein engineering. <i>FEBS Letters</i> , 1998 , 430, 92-4	3.8	35
39	Calmodulin as a versatile tag for antibody fragments. <i>Nature Biotechnology</i> , 1995 , 13, 373-7	44.5	33

38	HAPPY mapping of a YAC reveals alternative haplotypes in the human immunoglobulin VH locus. <i>Nucleic Acids Research</i> , 1993 , 21, 4524-9	20.1	33
37	The structure of two subgenomic RNAs from human influenza virus A/PR/8/34. <i>Nucleic Acids Research</i> , 1981 , 9, 6907-15	20.1	31
36	Selection of optical biosensors from chemisynthetic antibody libraries. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 709-13	1.9	30
35	Cell-growth control by monomeric antigen: the cell surface expression of lysozyme-specific Ig V-domains fused to truncated Epo receptor. <i>Journal of Immunological Methods</i> , 2000 , 241, 159-70	2.5	29
34	Subunit disassembly and inhibition of TNF α by a semi-synthetic bicyclic peptide. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 45-52	1.9	27
33	Immunoglobulin lambda light chain orphans on human chromosome 8q11.2. <i>European Journal of Immunology</i> , 1997 , 27, 1260-5	6.1	27
32	Tapping diversity lost in transformations--in vitro amplification of ligation reactions. <i>Nucleic Acids Research</i> , 2006 , 34, e108	20.1	25
31	Structure-activity relationships in engineered proteins: characterization of disruptive deletions in the alpha-ammonium group binding site of tyrosyl-tRNA synthetase. <i>Biochemistry</i> , 1987 , 26, 6038-43	3.2	25
30	A complete map of the human immunoglobulin VH locus. <i>Annals of the New York Academy of Sciences</i> , 1995 , 764, 43-6	6.5	23
29	Recombinant mouse monoclonal antibodies with single amino acid substitutions affecting Clq and high affinity Fc receptor binding have identical serum half-lives in the BALB/c mouse. <i>Molecular Immunology</i> , 1992 , 29, 221-7	4.3	22
28	Engineering enzymes. <i>Trends in Biotechnology</i> , 1984 , 2, 115-119	15.1	21
27	Identification of protein domains by shotgun proteolysis. <i>Journal of Molecular Biology</i> , 2006 , 358, 364-716.5		20
26	Towards the design of an antibody that recognises a given protein epitope. <i>Journal of Molecular Biology</i> , 1999 , 285, 909-15	6.5	20
25	Recombinant human single chain Fv antibodies recognizing human interleukin-6. Specific targeting of cytokine-secreting cells. <i>Journal of Biological Chemistry</i> , 1998 , 273, 2858-65	5.4	19
24	An antibody fragment from a phage display library competes for ligand binding to the low density lipoprotein receptor family and inhibits rhinovirus infection. <i>Journal of Biological Chemistry</i> , 1995 , 270, 24078-85	5.4	19
23	Dominance of intrinsic genetic factors in shaping the human immunoglobulin Vlambda repertoire. <i>Journal of Molecular Biology</i> , 1999 , 294, 457-65	6.5	18
22	Interdomain interactions within the gene 3 protein of filamentous phage. <i>FEBS Letters</i> , 1999 , 463, 371-43.8		16
21	Phage antibodies against an unstable hapten: oxygen sensitive reduced flavin. <i>FEBS Letters</i> , 1996 , 388, 242-4	3.8	16

20	A native-like artificial protein from antisense DNA. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 13-20	1.9	13
19	A transcription terminator in the 5Rnon-coding region of the tyrosyl tRNA synthetase gene from <i>Bacillus stearothermophilus</i> . <i>FEBS Journal</i> , 1986 , 158, 505-10		12
18	Beta-edge interactions in a pentadecameric human antibody V kappa domain. <i>Journal of Molecular Biology</i> , 2007 , 367, 603-8	6.5	11
17	Eine Methode zur Selektion katalytischer Aktivit�, die Phagendisplay und Nachbarschaftseffekte nutzt. <i>Angewandte Chemie</i> , 1999 , 111, 1196-1200	3.6	11
16	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, 618-23	6.1	10
15	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, 13202-6	11.5	10
14	Stabilization of antibody VH-domains by proteolytic selection. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 28, 173-179		10
13	Generating molecular diversity by homologous recombination in <i>Escherichia coli</i> . <i>Protein Engineering, Design and Selection</i> , 2005 , 18, 397-404	1.9	9
12	Blood clearance in the mouse of an aglycosyl recombinant monoclonal antibody. <i>Biochemical Society Transactions</i> , 1989 , 17, 1061-2	5.1	6
11	Comparison of the human germline and rearranged VH repertoire reveals complementarity between germline variability and somatic mutation. <i>Annals of the New York Academy of Sciences</i> , 1995 , 764, 180-2	6.5	4
10	Molecular characterization of human monoclonal antibodies derived from fusions of tonsil lymphocytes with a human myeloma cell line. <i>Hybridoma</i> , 2001 , 20, 287-92		4
9	Making antibody and peptide ligands by repertoire selection technologies. <i>Journal of Molecular Recognition</i> , 1998 , 11, 126-7	2.6	3
8	Genetic dissection of tyrosyl-tRNA synthetase. <i>Biochemical Society Transactions</i> , 1984 , 12, 224-5	5.1	3
7	Engineering of tyrosyl tRNA synthetase. <i>Biochimie</i> , 1985 , 67, 737-43	4.6	2
6	INFLUENZA VIRUS A/PR/8/34 GENES: SEQUENCING BY A SHOTGUN APPROACH 1981 , 55-64		2
5	Sexist ads. <i>Nature</i> , 1986 , 321, 106-106	50.4	1
4	THE HAEMAGGLUTININ GENE OF INFLUENZA A/PR/8/34 1981 , 65-75		1
3	Studying Enzyme-Substrate Interactions by Site-Directed Mutagenesis 1984 , 123-132		

2 SEQUENCE REARRANGEMENTS IN INFLUENZA VIRUS RNA AND RIBONUCLEOPROTEIN STRUCTURE
1984, 65-72

1 Restructuring Enzymes and Antibodies **1985**, 139-140