

K Dane Wittrup

List of Publications by Citations

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187
papers

13,262
citations

62
h-index

111
g-index

195
ext. papers

15,119
ext. citations

9.1
avg. IF

6.51
L-index

#	Paper	IF	Citations
187	Yeast surface display for screening combinatorial polypeptide libraries. <i>Nature Biotechnology</i> , 1997 , 15, 553-7	44.5	1292
186	Isolating and engineering human antibodies using yeast surface display. <i>Nature Protocols</i> , 2006 , 1, 755-688.8	688.8	598
185	A modeling analysis of the effects of molecular size and binding affinity on tumor targeting. <i>Molecular Cancer Therapeutics</i> , 2009 , 8, 2861-71	6.1	411
184	Flow-cytometric isolation of human antibodies from a nonimmune <i>Saccharomyces cerevisiae</i> surface display library. <i>Nature Biotechnology</i> , 2003 , 21, 163-70	44.5	403
183	Antibody tumor penetration: transport opposed by systemic and antigen-mediated clearance. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1421-34	18.5	375
182	Monovalent, reduced-size quantum dots for imaging receptors on living cells. <i>Nature Methods</i> , 2008 , 5, 397-9	21.6	365
181	Eradication of large established tumors in mice by combination immunotherapy that engages innate and adaptive immune responses. <i>Nature Medicine</i> , 2016 , 22, 1402-1410	50.5	302
180	Yeast surface display for protein engineering and characterization. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 467-73	8.1	296
179	Biophysical properties of the clinical-stage antibody landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 944-949	11.5	259
178	Computational design of antibody-affinity improvement beyond in vivo maturation. <i>Nature Biotechnology</i> , 2007 , 25, 1171-6	44.5	253
177	Yeast surface display for directed evolution of protein expression, affinity, and stability. <i>Methods in Enzymology</i> , 2000 , 328, 430-44	1.7	242
176	Increasing the secretory capacity of <i>Saccharomyces cerevisiae</i> for production of single-chain antibody fragments. <i>Nature Biotechnology</i> , 1998 , 16, 773-7	44.5	209
175	Design criteria for engineering inorganic material-specific peptides. <i>Langmuir</i> , 2005 , 21, 6929-33	4	177
174	Biopolymers codelivering engineered T cells and STING agonists can eliminate heterogeneous tumors. <i>Journal of Clinical Investigation</i> , 2017 , 127, 2176-2191	15.9	171
173	Protein engineering by cell-surface display. <i>Current Opinion in Biotechnology</i> , 2001 , 12, 395-9	11.4	167
172	Potent inhibition of huntingtin aggregation and cytotoxicity by a disulfide bond-free single-domain intracellular antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17616-21	11.5	162
171	Protein disulfide isomerase overexpression increases secretion of foreign proteins in <i>Saccharomyces cerevisiae</i> . <i>Bio/technology</i> , 1994 , 12, 381-4		159

170	Factors determining antibody distribution in tumors. <i>Trends in Pharmacological Sciences</i> , 2008 , 29, 57-61	13.2	156
169	Enhanced CAR-T cell activity against solid tumors by vaccine boosting through the chimeric receptor. <i>Science</i> , 2019 , 365, 162-168	33.3	148
168	Localized immunotherapy via liposome-anchored Anti-CD137 + IL-2 prevents lethal toxicity and elicits local and systemic antitumor immunity. <i>Cancer Research</i> , 2013 , 73, 1547-58	10.1	146
167	Directed evolution of a secretory leader for the improved expression of heterologous proteins and full-length antibodies in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1192-2019	4.9	144
166	Aglycosylated immunoglobulin G1 variants productively engage activating Fc receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20167-72	11.5	144
165	Picomolar affinity fibronectin domains engineered utilizing loop length diversity, recursive mutagenesis, and loop shuffling. <i>Journal of Molecular Biology</i> , 2008 , 381, 1238-52	6.5	139
164	Theoretical analysis of antibody targeting of tumor spheroids: importance of dosage for penetration, and affinity for retention. <i>Cancer Research</i> , 2003 , 63, 1288-96	10.1	130
163	Manipulating the selection forces during affinity maturation to generate cross-reactive HIV antibodies. <i>Cell</i> , 2015 , 160, 785-797	56.2	125
162	Practical theoretic guidance for the design of tumor-targeting agents. <i>Methods in Enzymology</i> , 2012 , 503, 255-68	1.7	125
161	Fine affinity discrimination by yeast surface display and flow cytometry. <i>Biotechnology Progress</i> , 2000 , 16, 31-7	2.8	124
160	Combination antibody treatment down-regulates epidermal growth factor receptor by inhibiting endosomal recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13252-7	11.5	118
159	Synergistic innate and adaptive immune response to combination immunotherapy with anti-tumor antigen antibodies and extended serum half-life IL-2. <i>Cancer Cell</i> , 2015 , 27, 489-501	24.3	114
158	Soluble IL-2RA levels in multiple sclerosis subjects and the effect of soluble IL-2RA on immune responses. <i>Journal of Immunology</i> , 2009 , 182, 1541-7	5.3	113
157	Directed evolution of an anti-carcinoembryonic antigen scFv with a 4-day monovalent dissociation half-time at 37 degrees C. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 293-304	1.9	113
156	Fine epitope mapping of anti-epidermal growth factor receptor antibodies through random mutagenesis and yeast surface display. <i>Journal of Molecular Biology</i> , 2004 , 342, 539-50	6.5	113
155	Optimal screening of surface-displayed polypeptide libraries. <i>Biotechnology Progress</i> , 1998 , 14, 55-62	2.8	108
154	Engineering antibody affinity by yeast surface display. <i>Methods in Enzymology</i> , 2004 , 388, 348-58	1.7	107
153	Five birds, one stone: neutralization of Hemolysin and 4 bi-component leukocidins of <i>Staphylococcus aureus</i> with a single human monoclonal antibody. <i>MAbs</i> , 2015 , 7, 243-54	6.6	103

152	Protein folding stability can determine the efficiency of escape from endoplasmic reticulum quality control. <i>Journal of Biological Chemistry</i> , 1998 , 273, 19453-8	5.4	103
151	Identification of the epitope for the epidermal growth factor receptor-specific monoclonal antibody 806 reveals that it preferentially recognizes an untethered form of the receptor. <i>Journal of Biological Chemistry</i> , 2004 , 279, 30375-84	5.4	102
150	High-affinity lamprey VLRA and VLRB monoclonal antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12891-6	11.5	96
149	Addressing polyspecificity of antibodies selected from an in vitro yeast presentation system: a FACS-based, high-throughput selection and analytical tool. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 663-70	1.9	95
148	Theoretic criteria for antibody penetration into solid tumors and micrometastases. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 995-9	8.9	95
147	Development of a human light chain variable domain (V(L)) intracellular antibody specific for the amino terminus of huntingtin via yeast surface display. <i>Journal of Molecular Biology</i> , 2004 , 342, 901-12	6.5	89
146	An integrating vector for tunable, high copy, stable integration into the dispersed Ty delta sites of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 1996 , 12, 16-21	2.8	86
145	Quantitative spatiotemporal analysis of antibody fragment diffusion and endocytic consumption in tumor spheroids. <i>Cancer Research</i> , 2008 , 68, 3334-41	10.1	85
144	Effect of antigen turnover rate and expression level on antibody penetration into tumor spheroids. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 2233-40	6.1	85
143	Evolution of an interloop disulfide bond in high-affinity antibody mimics based on fibronectin type III domain and selected by yeast surface display: molecular convergence with single-domain camelid and shark antibodies. <i>Journal of Molecular Biology</i> , 2007 , 368, 1024-41	6.5	84
142	Selection of horseradish peroxidase variants with enhanced enantioselectivity by yeast surface display. <i>Chemistry and Biology</i> , 2007 , 14, 1176-85		81
141	Shuffled antibody libraries created by in vivo homologous recombination and yeast surface display. <i>Nucleic Acids Research</i> , 2004 , 32, e36	20.1	80
140	Anchoring of intratumorally administered cytokines to collagen safely potentiates systemic cancer immunotherapy. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	79
139	Domain-level antibody epitope mapping through yeast surface display of epidermal growth factor receptor fragments. <i>Journal of Immunological Methods</i> , 2004 , 287, 147-58	2.5	79
138	A modular IgG-scFv bispecific antibody topology. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 221-8	1.9	78
137	Crystal structure of an HSA/FcRn complex reveals recycling by competitive mimicry of HSA ligands at a pH-dependent hydrophobic interface. <i>Structure</i> , 2013 , 21, 1966-78	5.2	76
136	Bispecific designed ankyrin repeat proteins (DARPs) targeting epidermal growth factor receptor inhibit A431 cell proliferation and receptor recycling. <i>Journal of Biological Chemistry</i> , 2011 , 286, 41273-41285	5.1	75
135	Secretion efficiency in <i>Saccharomyces cerevisiae</i> of bovine pancreatic trypsin inhibitor mutants lacking disulfide bonds is correlated with thermodynamic stability. <i>Biochemistry</i> , 1998 , 37, 1264-73	3.2	75

134	Immunotherapy: The path to win the war on cancer?. <i>Cell</i> , 2015 , 161, 185-6	56.2	73
133	A small-molecule catalyst of protein folding in vitro and in vivo. <i>Chemistry and Biology</i> , 1999 , 6, 871-9		72
132	Reduction of BiP levels decreases heterologous protein secretion in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1996 , 271, 10017-22	5.4	72
131	Antigen specificity can be irrelevant to immunocytokine efficacy and biodistribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3320-5	11.5	71
130	Stability and CDR composition biases enrich binder functionality landscapes. <i>Journal of Molecular Biology</i> , 2010 , 401, 84-96	6.5	67
129	A mechanistic compartmental model for total antibody uptake in tumors. <i>Journal of Theoretical Biology</i> , 2012 , 314, 57-68	2.3	65
128	Rapid tolerization of virus-activated tumor-specific CD8+ T cells in prostate tumors of TRAMP mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13003-8	11.5	63
127	Protein Engineering and Selection Using Yeast Surface Display. <i>Methods in Molecular Biology</i> , 2015 , 1319, 3-36	1.4	62
126	Highly avid magnetic bead capture: an efficient selection method for de novo protein engineering utilizing yeast surface display. <i>Biotechnology Progress</i> , 2009 , 25, 774-83	2.8	62
125	Quantitative screening of yeast surface-displayed polypeptide libraries by magnetic bead capture. <i>Biotechnology Progress</i> , 2002 , 18, 212-20	2.8	60
124	Kinetics of anti-carcinoembryonic antigen antibody internalization: effects of affinity, bivalency, and stability. <i>Cancer Immunology, Immunotherapy</i> , 2008 , 57, 1879-90	7.4	59
123	Convergent potency of internalized gelonin immunotoxins across varied cell lines, antigens, and targeting moieties. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4165-72	5.4	58
122	Peptide tags for enhanced cellular and protein adhesion to single-crystalline sapphire. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 1009-20	4.9	56
121	Directed evolution of the epidermal growth factor receptor extracellular domain for expression in yeast. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 62, 1026-35	4.2	56
120	Antibodies specifically targeting a locally misfolded region of tumor associated EGFR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5082-7	11.5	55
119	Stochastic kinetics of intracellular huntingtin aggregate formation. <i>Nature Chemical Biology</i> , 2006 , 2, 319-23	11.7	55
118	Degradation of mutated bovine pancreatic trypsin inhibitor in the yeast vacuole suggests post-endoplasmic reticulum protein quality control. <i>Journal of Biological Chemistry</i> , 2004 , 279, 15289-97	5.4	55
117	A33 antigen displays persistent surface expression. <i>Cancer Immunology, Immunotherapy</i> , 2008 , 57, 1017-24	7.4	53

116	Improved mutants from directed evolution are biased to orthologous substitutions. <i>Protein Engineering, Design and Selection</i> , 2006 , 19, 245-53	1.9	53
115	High throughput cross-interaction measures for human IgG1 antibodies correlate with clearance rates in mice. <i>MABs</i> , 2015 , 7, 770-7	6.6	52
114	Rapid conformational epitope mapping of anti-gp120 antibodies with a designed mutant panel displayed on yeast. <i>Journal of Molecular Biology</i> , 2013 , 425, 444-56	6.5	52
113	High-affinity CD25-binding IL-2 mutants potently stimulate persistent T cell growth. <i>Biochemistry</i> , 2005 , 44, 10696-701	3.2	52
112	Probing the interface between biomolecules and inorganic materials using yeast surface display and genetic engineering. <i>Acta Biomaterialia</i> , 2005 , 1, 145-54	10.8	51
111	Rapid method for measuring ScFv thermal stability by yeast surface display. <i>Biotechnology Progress</i> , 2003 , 19, 631-8	2.8	50
110	Determination of Cellular Processing Rates for a Trastuzumab-Maytansinoid Antibody-Drug Conjugate (ADC) Highlights Key Parameters for ADC Design. <i>AAPS Journal</i> , 2016 , 18, 635-46	3.7	48
109	Structural model of the mAb 806-EGFR complex using computational docking followed by computational and experimental mutagenesis. <i>Structure</i> , 2006 , 14, 401-14	5.2	48
108	Yeast surface display for antibody isolation: library construction, library screening, and affinity maturation. <i>Methods in Molecular Biology</i> , 2014 , 1131, 151-81	1.4	48
107	Expression of the 180-kD ribosome receptor induces membrane proliferation and increased secretory activity in yeast. <i>Journal of Cell Biology</i> , 1999 , 146, 273-84	7.3	47
106	An engineered protein antagonist of K-Ras/B-Raf interaction. <i>Scientific Reports</i> , 2017 , 7, 5831	4.9	44
105	Engineering an antibody with picomolar affinity to DOTA chelates of multiple radionuclides for pretargeted radioimmunotherapy and imaging. <i>Nuclear Medicine and Biology</i> , 2011 , 38, 223-33	2.1	44
104	Functional analysis of single cells identifies a rare subset of circulating tumor cells with malignant traits. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 388-98	3.7	43
103	Expression level tuning for optimal heterologous protein secretion in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 1997 , 13, 117-22	2.8	43
102	Interleukin-2 mutants with enhanced alpha-receptor subunit binding affinity. <i>Protein Engineering, Design and Selection</i> , 2003 , 16, 1081-7	1.9	43
101	Integrating cell-level kinetic modeling into the design of engineered protein therapeutics. <i>Nature Biotechnology</i> , 2005 , 23, 191-4	44.5	43
100	Highly L and D enantioselective variants of horseradish peroxidase discovered by an ultrahigh-throughput selection method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17694-9	11.5	42
99	Constitutive overexpression of secreted heterologous proteins decreases extractable BiP and protein disulfide isomerase levels in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 1995 , 11, 171-7	2.8	41

98	Engineering fibronectin-based binding proteins by yeast surface display. <i>Methods in Enzymology</i> , 2013 , 523, 303-26	1.7	40
97	A single-cell assay of beta-galactosidase activity in <i>Saccharomyces cerevisiae</i> . <i>Cytometry</i> , 1988 , 9, 394-404		40
96	What, Why, Where, and When: Bringing Timing to Immuno-Oncology. <i>Trends in Immunology</i> , 2019 , 40, 12-21	14.4	40
95	Antigen release kinetics in the phagosome are critical to cross-presentation efficiency. <i>Journal of Immunology</i> , 2008 , 180, 1576-83	5.3	39
94	Emergent properties of nanosensor arrays: applications for monitoring IgG affinity distributions, weakly affined hypermannosylation, and colony selection for biomanufacturing. <i>ACS Nano</i> , 2013 , 7, 7472-82	16.7	38
93	Interleukin 2 (IL-2) Variants Engineered for Increased IL-2 Receptor β Subunit Affinity Exhibit Increased Potency Arising from a Cell Surface Ligand Reservoir Effect. <i>Molecular Pharmacology</i> , 2004 , 66, 864-869	4.3	38
92	Multifunctional oncolytic nanoparticles deliver self-replicating IL-12 RNA to eliminate established tumors and prime systemic immunity. <i>Nature Cancer</i> , 2020 , 1, 882-893	15.4	38
91	CD38-bispecific antibody pretargeted radioimmunotherapy for multiple myeloma and other B-cell malignancies. <i>Blood</i> , 2018 , 131, 611-620	2.2	37
90	Molecular Magnetic Resonance Imaging of Tumor Response to Therapy. <i>Scientific Reports</i> , 2015 , 5, 14752-9	5.9	36
89	Strong Enrichment of Aromatic Residues in Binding Sites from a Charge-neutralized Hyperthermostable Sso7d Scaffold Library. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22496-22508	5.4	34
88	Effect of small-molecule-binding affinity on tumor uptake in vivo: a systematic study using a pretargeted bispecific antibody. <i>Molecular Cancer Therapeutics</i> , 2012 , 11, 1365-72	6.1	33
87	Biosynthetic polypeptide libraries. <i>Current Opinion in Biotechnology</i> , 1999 , 10, 117-22	11.4	33
86	Disulfide bond formation and eukaryotic secretory productivity. <i>Current Opinion in Biotechnology</i> , 1995 , 6, 203-8	11.4	33
85	A switchable yeast display/secretion system. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 317-25	1.9	32
84	Dose dependence of intratumoral perivascular distribution of monoclonal antibodies. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 860-7	3.9	32
83	Temporally Programmed CD8 ⁺ DC Activation Enhances Combination Cancer Immunotherapy. <i>Cell Reports</i> , 2016 , 17, 2503-2511	10.6	32
82	Integrin-targeted cancer immunotherapy elicits protective adaptive immune responses. <i>Journal of Experimental Medicine</i> , 2017 , 214, 1679-1690	16.6	31
81	A disulfide-free single-domain V(L) intrabody with blocking activity towards huntingtin reveals a novel mode of epitope recognition. <i>Journal of Molecular Biology</i> , 2011 , 414, 337-55	6.5	31

80	Engineered interleukin-2 antagonists for the inhibition of regulatory T cells. <i>Journal of Immunotherapy</i> , 2009 , 32, 887-94	5	31
79	Directed evolution for improved secretion of cancer-testis antigen NY-ESO-1 from yeast. <i>Protein Expression and Purification</i> , 2006 , 48, 232-42	2	31
78	Evolution of Antibody-Drug Conjugate Tumor Disposition Model to Predict Preclinical Tumor Pharmacokinetics of Trastuzumab-Emtansine (T-DM1). <i>AAPS Journal</i> , 2016 , 18, 861-75	3.7	31
77	A graphene-based physiometer array for the analysis of single biological cells. <i>Scientific Reports</i> , 2014 , 4, 6865	4.9	29
76	Theranostic pretargeted radioimmunotherapy of colorectal cancer xenografts in mice using picomolar affinity α - or β -DOTA-Bn binding scFv C825/GPA33 IgG bispecific immunoconjugates. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 925-937	8.8	29
75	The full amino acid repertoire is superior to serine/tyrosine for selection of high affinity immunoglobulin G binders from the fibronectin scaffold. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 211-9	1.9	29
74	Differential requirement for CD70 and CD80/CD86 in dendritic cell-mediated activation of tumor-tolerized CD8 T cells. <i>Journal of Immunology</i> , 2012 , 189, 1708-16	5.3	29
73	Curative Multicycle Radioimmunotherapy Monitored by Quantitative SPECT/CT-Based Theranostics, Using Bispecific Antibody Pretargeting Strategy in Colorectal Cancer. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1735-1742	8.9	28
72	A flow cytometric assay for screening improved heterologous protein secretion in yeast. <i>Biotechnology Progress</i> , 2006 , 22, 1200-8	2.8	28
71	Triepitopic antibody fusions inhibit cetuximab-resistant BRAF and KRAS mutant tumors via EGFR signal repression. <i>Journal of Molecular Biology</i> , 2012 , 422, 532-44	6.5	27
70	Phage on display. <i>Trends in Biotechnology</i> , 1999 , 17, 423-4	15.1	27
69	Reduction of Nonspecificity Motifs in Synthetic Antibody Libraries. <i>Journal of Molecular Biology</i> , 2018 , 430, 119-130	6.5	27
68	A series of anti-CEA/anti-DOTA bispecific antibody formats evaluated for pre-targeting: comparison of tumor uptake and blood clearance. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 187-93	1.9	26
67	Target-independent variable region mediated effects on antibody clearance can be FcRn independent. <i>MAbs</i> , 2016 , 8, 1269-1275	6.6	24
66	Pharmacokinetic tuning of protein-antigen fusions enhances the immunogenicity of T-cell vaccines. <i>Nature Biomedical Engineering</i> , 2020 , 4, 636-648	19	23
65	Contrasting secretory processing of simultaneously expressed heterologous proteins in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2006 , 93, 896-905	4.9	23
64	Context-dependent mutations predominate in an engineered high-affinity single chain antibody fragment. <i>Protein Science</i> , 2006 , 15, 324-34	6.3	23
63	Epidermal growth factor receptor downregulation by small heterodimeric binding proteins. <i>Protein Engineering, Design and Selection</i> , 2012 , 25, 47-57	1.9	22

62	Antitumor Antibodies Can Drive Therapeutic T Cell Responses. <i>Trends in Cancer</i> , 2017 , 3, 615-620	12.5	21
61	Targeted cytolysins synergistically potentiate cytoplasmic delivery of gelonin immunotoxin. <i>Molecular Cancer Therapeutics</i> , 2013 , 12, 1774-82	6.1	21
60	Comparative Analysis of Bispecific Antibody and Streptavidin-Targeted Radioimmunotherapy for B-cell Cancers. <i>Cancer Research</i> , 2016 , 76, 6669-6679	10.1	21
59	Biodistribution and clearance of small molecule hapten chelates for pretargeted radioimmunotherapy. <i>Molecular Imaging and Biology</i> , 2011 , 13, 215-21	3.8	20
58	Tumor cells are dislodged into the pulmonary vein during lobectomy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 3224-31.e1-5	1.5	18
57	Chaperone proteins as single component reagents to assess antibody nonspecificity. <i>MAbs</i> , 2017 , 9, 1036-1040	6.0	17
56	Cutting edge: delay and reversal of T cell tolerance by intratumoral injection of antigen-loaded dendritic cells in an autochthonous tumor model. <i>Journal of Immunology</i> , 2010 , 184, 5954-8	5.3	17
55	Propagation of an amplifiable recombinant plasmid in <i>Saccharomyces cerevisiae</i> : flow cytometry studies and segregated modeling. <i>Biotechnology and Bioengineering</i> , 1990 , 35, 565-77	4.9	17
54	Generation of Fluorogen-Activating Designed Ankyrin Repeat Proteins (FADAs) as Versatile Sensor Tools. <i>Journal of Molecular Biology</i> , 2016 , 428, 1272-1289	6.5	16
53	Nonspecificity in a nonimmune human scFv repertoire. <i>MAbs</i> , 2017 , 9, 1029-1035	6.6	16
52	Type I interferon activates MHC class I-dressed CD11b conventional dendritic cells to promote protective anti-tumor CD8 T cell immunity. <i>Immunity</i> , 2021 ,	32.3	16
51	Detection of amyloid β oligomers toward early diagnosis of Alzheimer's disease. <i>Analytical Biochemistry</i> , 2019 , 566, 40-45	3.1	16
50	Synergistic antitumor activity from two-stage delivery of targeted toxins and endosome-disrupting nanoparticles. <i>Biomacromolecules</i> , 2013 , 14, 1093-102	6.9	15
49	Leader peptide efficiency correlates with signal recognition particle dependence in <i>Saccharomyces cerevisiae</i> 1998 , 59, 286-293		14
48	Single-chain antibody fragment-based adsorbent for the extracorporeal removal of beta2-microglobulin. <i>Kidney International</i> , 2004 , 65, 310-22	9.9	14
47	Directed evolution of broadly crossreactive chemokine-blocking antibodies efficacious in arthritis. <i>Nature Communications</i> , 2018 , 9, 1461	17.4	13
46	Determination of 35 cell surface antigen levels in malignant pleural effusions identifies CD24 as a marker of disseminated tumor cells. <i>International Journal of Cancer</i> , 2013 , 133, 2925-33	7.5	13
45	Inducing efficient cross-priming using antigen-coated yeast particles. <i>Journal of Immunotherapy</i> , 2008 , 31, 607-19	5	13

44	Integrated mimicry of B cell antibody mutagenesis using yeast homologous recombination. <i>Molecular Biotechnology</i> , 2011 , 47, 57-69	3	12
43	Activation of tolerogenic dendritic cells in the tumor draining lymph nodes by CD8+ T cells engineered to express CD40 ligand. <i>Journal of Immunology</i> , 2010 , 184, 3394-400	5.3	12
42	Glutathione excretion in response to heterologous protein secretion in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2000 , 68, 389-95	4.9	12
41	Thermodynamic characterization of affinity maturation: the D1.3 antibody and a higher-affinity mutant. <i>Journal of Molecular Recognition</i> , 1998 , 11, 10-3	2.6	11
40	Purification of common light chain IgG-like bispecific antibodies using highly linear pH gradients. <i>MAbs</i> , 2017 , 9, 257-268	6.6	10
39	Antibody-mediated neutralization of perfringolysin o for intracellular protein delivery. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1992-2000	5.6	10
38	A Flow Cytometric Clonogenic Assay Reveals the Single-Cell Potency of Doxorubicin. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 4409-4416	3.9	10
37	High-throughput phenotypic screen and transcriptional analysis identify new compounds and targets for macrophage reprogramming. <i>Nature Communications</i> , 2021 , 12, 773	17.4	10
36	Engineering Aglycosylated IgG Variants with Wild-Type or Improved Binding Affinity to Human Fc Gamma RIIA and Fc Gamma RIIAs. <i>Journal of Molecular Biology</i> , 2017 , 429, 2528-2541	6.5	9
35	Mathematical modeling of a single-cell enzyme assay. <i>Biotechnology and Bioengineering</i> , 1990 , 35, 525-324.9	32.9	9
34	Design Principles for SuCESsFul Biosensors: Specific Fluorophore/Analyte Binding and Minimization of Fluorophore/Scaffold Interactions. <i>Journal of Molecular Biology</i> , 2016 , 428, 4228-4241	6.5	8
33	Combining the Specific Anti-MUC1 Antibody TAB004 and Lip-MSA-IL-2 Limits Pancreatic Cancer Progression in Immune Competent Murine Models of Pancreatic Ductal Adenocarcinoma. <i>Frontiers in Oncology</i> , 2019 , 9, 330	5.3	7
32	Order of administration of combination cytokine therapies can decouple toxicity from efficacy in syngeneic mouse tumor models. <i>Oncotmmunology</i> , 2019 , 8, e1558678	7.2	7
31	A Raf-Competitive K-Ras Binder Can Fail to Functionally Antagonize Signaling. <i>Molecular Cancer Therapeutics</i> , 2018 , 17, 1773-1780	6.1	7
30	Yeast Display and Selections 2010 , 207-233		7
29	Rolling adhesion kinematics of yeast engineered to express selectins. <i>Biotechnology Progress</i> , 2003 , 19, 1033-7	2.8	7
28	Artificial Anti-Tumor Opsonizing Proteins with Fibronectin Scaffolds Engineered for Specificity to Each of the Murine FcR Types. <i>Journal of Molecular Biology</i> , 2018 , 430, 1786-1798	6.5	6
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