Hugues Bedouelle

List of Publications by Year
in descending order

52	2,561	236833 25	189801 50
papers	citations	h-index	g-index

52	52	52	1928
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Principles and equations for measuring and interpreting protein stability: From monomer to tetramer. Biochimie, 2016, 121, 29-37.	1.3	13
2	Direct and indirect interactions in the recognition between a crossâ€neutralizing antibody and the four serotypes of dengue virus. Journal of Molecular Recognition, 2014, 27, 205-214.	1.1	12
3	Cross-reactivities between human IgMs and the four serotypes of dengue virus as probed with artificial homodimers of domain-III from the envelope proteins. BMC Infectious Diseases, 2013, 13, 302.	1.3	13
4	Thermodynamic stability of domain III from the envelope protein of flaviviruses and its improvement by molecular design. Protein Engineering, Design and Selection, 2013, 26, 389-399.	1.0	13
5	The folded and disordered domains of human ribosomal protein SA have both idiosyncratic and shared functions as membrane receptors. Bioscience Reports, 2013, 33, 113-24.	1.1	21
6	Multiple Folding States and Disorder of Ribosomal Protein SA, a Membrane Receptor for Laminin, Anticarcinogens, and Pathogens. Biochemistry, 2012, 51, 4807-4821.	1.2	15
7	Mechanism of Dengue Virus Broad Cross-Neutralization by a Monoclonal Antibody. Structure, 2012, 20, 303-314.	1.6	121
8	Reagentless fluorescent biosensors from artificial families of antigen binding proteins. Biosensors and Bioelectronics, 2011, 26, 4184-4190.	5.3	29
9	Knowledge-based design of reagentless fluorescent biosensors from a designed ankyrin repeat protein. Protein Engineering, Design and Selection, 2010, 23, 229-241.	1.0	16
10	Recombinant antibodies specific for thePlasmodium falciparumhistidine-rich protein 2. MAbs, 2010, 2, 416-427.	2.6	7
11	NKp44 Receptor Mediates Interaction of the Envelope Glycoproteins from the West Nile and Dengue Viruses with NK Cells. Journal of Immunology, 2009, 183, 2610-2621.	0.4	124
12	Improvement of an Antibody Neutralizing the Anthrax Toxin by Simultaneous Mutagenesis of Its Six Hypervariable Loops. Journal of Molecular Biology, 2008, 378, 1094-1103.	2.0	26
13	Germline Humanization of a Non-human Primate Antibody that Neutralizes the Anthrax Toxin, by in Vitro and in Silico Engineering. Journal of Molecular Biology, 2008, 384, 1400-1407.	2.0	104
14	Mapping to completeness and transplantation of a group-specific, discontinuous, neutralizing epitope in the envelope protein of dengue virus. Journal of General Virology, 2007, 88, 2387-2397.	1.3	56
15	Pediatric Measles Vaccine Expressing a Dengue Antigen Induces Durable Serotype-specific Neutralizing Antibodies to Dengue Virus. PLoS Neglected Tropical Diseases, 2007, 1, e96.	1.3	75
16	Improving the Stability of an Antibody Variable Fragment by a Combination of Knowledge-based Approaches: Validation and Mechanisms. Journal of Molecular Biology, 2006, 362, 580-593.	2.0	48
17	Diversity and junction residues as hotspots of binding energy in an antibody neutralizing the dengue virus. FEBS Journal, 2006, 273, 34-46.	2.2	19
18	Quantitative measurement of protein stability from unfolding equilibria monitored with the fluorescence maximum wavelength. Protein Engineering, Design and Selection, 2005, 18, 445-456.	1.0	48

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19	Improving the Sensitivity and Dynamic Range of Reagentless Fluorescent Immunosensors by Knowledge-Based Designâ€. Biochemistry, 2004, 43, 15453-15462.	1.2	19
20	Deriving Topological Constraints from Functional Data for the Design of Reagentless Fluorescent Immunosensors. Journal of Molecular Biology, 2003, 326, 167-175.	2.0	26
21	Knowledge-based Design of Reagentless Fluorescent Biosensors from Recombinant Antibodies. Journal of Molecular Biology, 2002, 318, 429-442.	2.0	71
22	Harnessing MalE for the study of antigen/antibody recognitions. Research in Microbiology, 2002, 153, 395-398.	1.0	1
23	Structure and Dynamics of the Anticodon Arm Binding Domain of Bacillus stearothermophilus Tyrosyl-tRNA Synthetase. Structure, 2002, 10, 311-317.	1.6	16
24	An Essential Residue in the Flexible Peptide Linking the Two Idiosynchratic Domains of Bacterial Tyrosyl-tRNA Synthetases. Biochemistry, 2001, 40, 7192-7199.	1.2	5
25	Mapping of a dengue virus neutralizing epitope critical for the infectivity of all serotypes: insight into the neutralization mechanism. Journal of General Virology, 2001, 82, 1885-1892.	1.3	114
26	Mutational Scanning of a Hairpin Loop in the Tryptophan Synthase Î²-Subunit Implicated in Allostery and Substrate Channeling. Biological Chemistry, 2000, 381, 1185-93.	1.2	2
27	The Anticodon-binding Domain of Tyrosyl-tRNA Synthetase:Â State of Folding and Origin of the Crystallographic Disorder. Biochemistry, 2000, 39, 1739-1747.	1.2	13
28	Disordered C-terminal domain of tyrosyl-tRNA synthetase: Secondary structure prediction. Biochimie, 1999, 81, 235-244.	1.3	3
29	Secondary structure of the C-terminal domain of the tyrosyl-transfer RNA synthetase from Bacillus stearothermophilus : a novel type of anticodon binding domain?. FEBS Letters, 1999, 446, 81-85.	1.3	7
30	Experimental evolution of a dense cluster of residues in tyrosyl-tRNA synthetase: quantitative effects on activity, stability and dimerization 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 286, 563-577.	2.0	4
31	Dimeric Tyrosyl-tRNA Synthetase from Bacillus stearothermophilus Unfolds through a Monomeric Intermediate. Journal of Biological Chemistry, 1998, 273, 18052-18059.	1.6	35
32	A Mutational Approach Shows Similar Mechanisms of Recognition for the Isolated and Integrated Versions of a Protein Epitope. Journal of Biological Chemistry, 1998, 273, 34753-34759.	1.6	6
33	Conformational and Functional Properties of an Undecapeptide Epitope Fused with the C-Terminal End of the Maltose Binding Protein. Biochemistry, 1997, 36, 8954-8961.	1.2	4
34	Mutational Analysis of an Antigenic Peptide Shows Recognition in a Loop Conformation. Biochemistry, 1997, 36, 8962-8968.	1.2	10
35	Energetic and Kinetic Contributions of Contact Residues of Antibody D1.3 in the Interaction with Lysozyme. Biochemistry, 1997, 36, 164-172.	1.2	58
36	Recognition ofE. coli tryptophan synthase by single-chain Fv fragments: comparison of PCR-cloning variants with the parental antibodies. , 1997, 10, 169-181.		12

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37	Disordered C-terminal Domain of Tyrosyl Transfer-RNA Synthetase: Evidence for a Folded State. Journal of Molecular Biology, 1996, 255, 110-120.	2.0	9
38	Destabilizing interactions between the partners of a bifunctional fusion protein. Protein Engineering, Design and Selection, 1996, 9, 231-238.	1.0	15
39	Mapping the Stability Determinants of Bacterial Tyrosyl Transfer RNA Synthetases by an Experimental Evolutionary Approach. Journal of Molecular Biology, 1993, 234, 209-221.	2.0	20
40	Role of residue Glu152 in the discrimination between transfer RNAs by Tyrosyl-tRNA synthetase from Bacillus stearothermophilus. Journal of Molecular Biology, 1992, 223, 801-810.	2.0	30
41	Engineering the quaternary structure of an exported protein with a leucine zipper. Protein Engineering, Design and Selection, 1991, 4, 457-461.	1.0	39
42	Export and purification of a cytoplasmic dimeric protein by fusion to the maltose-binding protein of Escherichia coli. FEBS Journal, 1990, 193, 325-330.	0.2	26
43	Structural and kinetic bases for the recognition of tRNAtyr by tyrosyl-tRNA synthetase. Journal of Molecular Biology, 1989, 205, 729-735.	2.0	45
44	Production in Escherichia coli and one-step purification of bifunctional hybrid proteins which bind maltose. Export of the Klenow polymerase into the periplasmic space. FEBS Journal, 1988, 171, 541-549.	0.2	124
45	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.	1.2	171
46	Silent and functional changes in the periplasmic maltose-binding protein of Escherichia coli K12. Journal of Molecular Biology, 1987, 194, 663-673.	2.0	104
47	A model of synthetase/transfer RNA interaction as deduced by protein engineering. Nature, 1986, 320, 371-373.	13.7	127
48	Improved oligonudeotide site-directed rautagenesis using M13 vectors. Nucleic Acids Research, 1985, 13, 4431-4443.	6.5	566
49	Engineering of tyrosyl tRNA synthetase. Biochimie, 1985, 67, 737-743.	1.3	2
50	Mutations in the promoter regions of the malEFG and malK-lamB operons of Escherichia coli K12. Journal of Molecular Biology, 1983, 170, 861-882.	2.0	38
51	Promoters of the malEFG and malK-lamB operons in Escherichia coli K12. Journal of Molecular Biology, 1982, 161, 519-531.	2.0	45
52	A DNA sequence containing the control regions of the malEFG and malK-lamB operons in Escherichia coli K12. Molecular Genetics and Genomics, 1982, 185, 82-87.	2.4	34