

Xavier Soberon

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

3,274
citations

257450

24
h-index

161849

54
g-index

61
all docs

61
docs citations

61
times ranked

6576
citing authors

#	ARTICLE	IF	CITATIONS
1	The genomes of four tapeworm species reveal adaptations to parasitism. <i>Nature</i> , 2013, 496, 57-63.	27.8	603
2	The genetics of Mexico recapitulates Native American substructure and affects biomedical traits. <i>Science</i> , 2014, 344, 1280-1285.	12.6	420
3	Plasmid vector pBR322 and its special-purpose derivatives " a review. <i>Gene</i> , 1986, 50, 3-40.	2.2	321
4	Exome sequencing of 20,791 cases of type 2 diabetes and 24,440 controls. <i>Nature</i> , 2019, 570, 71-76.	27.8	248
5	Association of a Low-Frequency Variant in <i>HNF1A</i> With Type 2 Diabetes in a Latino Population. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 2305.	7.4	230
6	Combining metagenomics, metatranscriptomics and viromics to explore novel microbial interactions: towards a systems-level understanding of human microbiome. <i>Computational and Structural Biotechnology Journal</i> , 2015, 13, 390-401.	4.1	182
7	Construction and characterization of new cloning vehicles V. Mobilization and coding properties of pBR322 and several deletion derivatives including pBR327 and pBR328. <i>Gene</i> , 1981, 13, 25-35.	2.2	163
8	Type 2 Diabetes Variants Disrupt Function of SLC16A11 through Two Distinct Mechanisms. <i>Cell</i> , 2017, 170, 199-212.e20.	28.9	121
9	A proposed architecture for the central domain of the bacterial enhancer-binding proteins based on secondary structure prediction and fold recognition. <i>Protein Science</i> , 1997, 6, 543-555.	7.6	60
10	Genome analysis of Excretory/Secretory proteins in <i>Taenia solium</i> reveals their Abundance of Antigenic Regions (AAR). <i>Scientific Reports</i> , 2015, 5, 9683.	3.3	54
11	A Loss-of-Function Splice Acceptor Variant in <i>IGF2</i> Is Protective for Type 2 Diabetes. <i>Diabetes</i> , 2017, 66, 2903-2914.	0.6	52
12	Demographic history and biologically relevant genetic variation of Native Mexicans inferred from whole-genome sequencing. <i>Nature Communications</i> , 2017, 8, 1005.	12.8	44
13	In vivo studies on the positive control function of NifA: a conserved hydrophobic amino acid patch at the central domain involved in transcriptional activation. <i>Molecular Microbiology</i> , 2002, 28, 55-67.	2.5	40
14	$\hat{\text{A}}$ -Amylase from <i>Bacillus licheniformis</i> mutants near to the catalytic site: effects on hydrolytic and transglycosylation activity. <i>Protein Engineering, Design and Selection</i> , 2003, 16, 505-514.	2.1	40
15	Exploring the Structure"Function Loop Adaptability of a ($\hat{\text{I}}^2/\hat{\text{I}}^{\pm}$)-Barrel Enzyme through Loop Swapping and Hinge Variability. <i>Journal of Molecular Biology</i> , 2011, 411, 143-157.	4.2	37
16	Different strategies to recover the activity of monomeric triosephosphate isomerase by directed evolution. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 149-155.	2.1	30
17	Improving a circularly permuted TEM-1 $\hat{\text{I}}^2$ -lactamase by directed evolution. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 463-470.	2.1	30
18	Substitution of Asp for Asn at Position 132 in the Active Site of TEM $\hat{\text{I}}^2$ -Lactamase. <i>Journal of Biological Chemistry</i> , 1995, 270, 775-780.	3.4	29

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19	Saturation mutagenesis of His114 of EcoRI reveals relaxed-specificity mutants. <i>Gene</i> , 1995, 157, 295-301.	2.2	29
20	A New TEM \hat{I}^2 -Lactamase Double Mutant with Broadened Specificity Reveals Substrate-dependent Functional Interactions. <i>Journal of Biological Chemistry</i> , 1995, 270, 781-787.	3.4	28
21	Combinatorial codon-based amino acid substitutions. <i>Nucleic Acids Research</i> , 2004, 32, e158-e158.	14.5	28
22	Protein Design through Systematic Catalytic Loop Exchange in the $(\hat{I}^2/\hat{I}^\pm)_8$ Fold. <i>Journal of Molecular Biology</i> , 2009, 387, 949-964.	4.2	28
23	Combinatorial mutagenesis of three major groove-contacting residues of EcoRI: single and double amino acid replacements retaining methyltransferase-sensitive activities. <i>Gene</i> , 1991, 106, 7-12.	2.2	26
24	Did cyclodextrin glycosyltransferases evolve from \hat{I}^\pm -amylases?. <i>FEBS Letters</i> , 1997, 416, 221-224.	2.8	25
25	Introducing transglycosylation activity in a liquefying \hat{I}^\pm -amylase. <i>FEBS Letters</i> , 1999, 453, 100-106.	2.8	25
26	Combination of DMT-mononucleotide and Fmoc-trinucleotide phosphoramidites in oligonucleotide synthesis affords an automatable codon-level mutagenesis method. <i>Chemistry and Biology</i> , 1998, 5, 519-527.	6.0	24
27	The Plasmid, pBR322. , 1988, 10, 5-41.		21
28	Protein evolution by codon-based random deletions. <i>Nucleic Acids Research</i> , 2004, 32, e136-e136.	14.5	20
29	Identification and characterization of <i>Taenia solium</i> enolase as a plasminogen-binding protein. <i>Acta Tropica</i> , 2018, 182, 69-79.	2.0	19
30	In vivo fragment complementation of a $(\hat{I}^2/\hat{I}^\pm)_8$ barrel protein: generation of variability by recombination. <i>FEBS Letters</i> , 2004, 560, 167-172.	2.8	18
31	Production of a fully functional, permuted single-chain penicillin G acylase. <i>Protein Science</i> , 2004, 13, 1677-1683.	7.6	17
32	Evolutionary Walk between $(\hat{I}^2/\hat{I}^\pm)_8$ Barrels: Catalytic Migration from Triosephosphate Isomerase to Thiamin Phosphate Synthase. <i>Journal of Molecular Biology</i> , 2012, 416, 255-270.	4.2	17
33	Temperature-sensitive mutants of the EcoRI endonuclease. <i>Journal of Molecular Biology</i> , 1997, 274, 722-737.	4.2	16
34	Exploring Variation in Known Pharmacogenetic Variants and its Association with Drug Response in Different Mexican Populations. <i>Pharmaceutical Research</i> , 2016, 33, 2644-2652.	3.5	16
35	Prediction of atorvastatin plasmatic concentrations in healthy volunteers using integrated pharmacogenetics sequencing. <i>Pharmacogenomics</i> , 2017, 18, 121-131.	1.3	16
36	The effect of amino acid deletions and substitutions in the longest loop of GFP. <i>BMC Chemical Biology</i> , 2007, 7, 1.	1.6	15

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37	Enhancement of the Alcoholic Activity of α -Amylase AmyA from <i>Thermotoga maritima</i> (MSB8 (DSM 3109) by Site-Directed Mutagenesis. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5168-5177.	3.1	15
38	Genotype frequencies of VKORC1 and CYP2C9 in Native and Mestizo populations from Mexico, potential impact for coumarin dosing. <i>Gene</i> , 2015, 558, 235-240.	2.2	15
39	Variation in Actionable Pharmacogenetic Markers in Natives and Mestizos From Mexico. <i>Frontiers in Pharmacology</i> , 2019, 10, 1169.	3.5	15
40	Mutant <i>Escherichia coli</i> penicillin acylase with enhanced stability at alkaline pH. <i>Biotechnology and Bioengineering</i> , 1995, 48, 141-148.	3.3	13
41	Novel ceftazidime-resistance beta-lactamases generated by a codon-based mutagenesis method and selection. <i>Nucleic Acids Research</i> , 2002, 30, 84e-84.	14.5	12
42	Quantitative multiplexed proteomics of <i>Taenia solium</i> cysts obtained from the skeletal muscle and central nervous system of pigs. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005962.	3.0	12
43	Fate of uptaken host proteins in <i>Taenia solium</i> and <i>Taenia crassiceps</i> cysticerci. <i>Bioscience Reports</i> , 2018, 38, .	2.4	11
44	Role of porcine serum haptoglobin in the host-parasite relationship of <i>Taenia solium</i> cysticercosis. <i>Molecular and Biochemical Parasitology</i> , 2016, 207, 61-67.	1.1	10
45	Microbial Systems and Directed Evolution of Protein Activities. <i>Critical Reviews in Microbiology</i> , 1994, 20, 107-116.	6.1	9
46	Microbial sensor for new-generation cephalosporins based in a protein-engineered β -lactamase. <i>Applied Biochemistry and Biotechnology</i> , 1998, 73, 243-256.	2.9	9
47	Identification and analysis of residues contained on β loops of the dual-substrate phosphoribosyl isomerase A specific for its phosphoribosyl anthranilate isomerase activity. <i>Protein Science</i> , 2010, 19, 535-543.	7.6	9
48	Whole genome variation in 27 Mexican indigenous populations, demographic and biomedical insights. <i>PLoS ONE</i> , 2021, 16, e0249773.	2.5	8
49	Experimental and Theoretical Approaches To Investigate the Immunogenicity of <i>Taenia solium</i> -Derived KE7 Antigen. <i>Infection and Immunity</i> , 2017, 85, .	2.2	7
50	Pharmacogenetic Variation in Over 100 Genes in Patients Receiving Acenocumarol. <i>Frontiers in Pharmacology</i> , 2017, 8, 863.	3.5	7
51	Alternative Splice Variants in TIM Barrel Proteins from Human Genome Correlate with the Structural and Evolutionary Modularity of this Versatile Protein Fold. <i>PLoS ONE</i> , 2013, 8, e70582.	2.5	7
52	A more Efficient Starch Degradation by the Combination of Hydrolase and Transferase Activities of α -Amylase and Cyclomaltodextrin Glucanotransferase. <i>Starch/Staerke</i> , 2004, 56, 63-68.	2.1	6
53	Improvement of an Unusual Twin-Arginine Transporter Leader Peptide by a Codon-Based Randomization Approach. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3797-3801.	3.1	4
54	Exploratory Analysis of Rare and Novel Variants in Mexican Patients Diagnosed with Schizophrenia and Dementia. <i>Revista De Investigacion Clinica</i> , 2019, 71, 246-254.	0.4	4

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55	An Engineered Penicillin Acylase with Altered Surface Charge Is More Stable in Alkaline pH. Annals of the New York Academy of Sciences, 1996, 799, 61-64.	3.8	2
56	Microbiome-MX 2018: microbiota and microbiome opportunities in Mexico, a megadiverse country. Research in Microbiology, 2019, 170, 235-241.	2.1	2
57	Association of FAAH p.Pro129Thr and COMT p.Ala72Ser with schizophrenia and comorbid substance use through next-generation sequencing: an exploratory analysis. Revista Brasileira De Psiquiatria, 2021, , .	1.7	2
58	Enzymes directly evolving toward commercial applications. Nature Biotechnology, 1999, 17, 539-540.	17.5	1
59	Generation of variability by in vivo recombination of halves of a (12/1±)8 barrel protein. New Biotechnology, 2005, 22, 113-120.	2.7	1