

Luis Angel Fernandez

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72
papers

2,736
citations

33
h-index

51
g-index

79
ext. papers

3,103
ext. citations

7.8
avg, IF

5.1
L-index

#	Paper	IF	Citations
72	Engineering a mouse metallothionein on the cell surface of <i>Ralstonia eutropha</i> CH34 for immobilization of heavy metals in soil. <i>Nature Biotechnology</i> , 2000 , 18, 661-5	44.5	226
71	Extension of chromatin accessibility by nuclear matrix attachment regions. <i>Nature</i> , 1997 , 385, 269-72	50.4	213
70	Production of functional single-chain Fv antibodies in the cytoplasm of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2002 , 320, 1-10	6.5	134
69	Export of autotransported proteins proceeds through an oligomeric ring shaped by C-terminal domains. <i>EMBO Journal</i> , 2002 , 21, 2122-31	13	107
68	Programming controlled adhesion of <i>E. coli</i> to target surfaces, cells, and tumors with synthetic adhesins. <i>ACS Synthetic Biology</i> , 2015 , 4, 463-73	5.7	87
67	Matrix attachment region-dependent function of the immunoglobulin mu enhancer involves histone acetylation at a distance without changes in enhancer occupancy. <i>Molecular and Cellular Biology</i> , 2001 , 21, 196-208	4.8	85
66	Structural tolerance of bacterial autotransporters for folded passenger protein domains. <i>Molecular Microbiology</i> , 2004 , 52, 1069-80	4.1	78
65	Probing secretion and translocation of a beta-autotransporter using a reporter single-chain Fv as a cognate passenger domain. <i>Molecular Microbiology</i> , 1999 , 33, 1232-43	4.1	74
64	Insertional mutagenesis in the extreme thermophilic eubacteria <i>Thermus thermophilus</i> HB8. <i>Molecular Microbiology</i> , 1992 , 6, 1555-64	4.1	68
63	A nanobody targeting the F-actin capping protein CapG restrains breast cancer metastasis. <i>Breast Cancer Research</i> , 2013 , 15, R116	8.3	67
62	Thioredoxin fusions increase folding of single chain Fv antibodies in the cytoplasm of <i>Escherichia coli</i> : evidence that chaperone activity is the prime effect of thioredoxin. <i>Journal of Molecular Biology</i> , 2006 , 357, 49-61	6.5	67
61	Nuclear matrix attachment regions antagonize methylation-dependent repression of long-range enhancer-promoter interactions. <i>Genes and Development</i> , 1999 , 13, 3003-14	12.6	67
60	Immunoglobulin domains in <i>Escherichia coli</i> and other enterobacteria: from pathogenesis to applications in antibody technologies. <i>FEMS Microbiology Reviews</i> , 2013 , 37, 204-50	15.1	65
59	Role of periplasmic chaperones and BamA (YaeT/Omp85) in folding and secretion of intimin from enteropathogenic <i>Escherichia coli</i> strains. <i>Journal of Bacteriology</i> , 2009 , 191, 5169-79	3.5	65
58	Specific secretion of active single-chain Fv antibodies into the supernatants of <i>Escherichia coli</i> cultures by use of the hemolysin system. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 5024-9	4.8	65
57	Engineered bacteria as therapeutic agents. <i>Current Opinion in Biotechnology</i> , 2015 , 35, 94-102	11.4	63
56	A thermophilic nitrate reductase is responsible for the strain specific anaerobic growth of <i>Thermus thermophilus</i> HB8. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998 , 1396, 215-27		63

55	Secretion and assembly of regular surface structures in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2000 , 24, 21-44	15.1	59
54	Selection of single domain antibodies from immune libraries displayed on the surface of E. coli cells with two E domains of opposite topologies. <i>PLoS ONE</i> , 2013 , 8, e75126	3.7	54
53	Conjugative transfer can be inhibited by blocking relaxase activity within recipient cells with intrabodies. <i>Molecular Microbiology</i> , 2007 , 63, 404-16	4.1	54
52	Secretion and assembly of regular surface structures in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2000 , 24, 21-44	15.1	49
51	Prokaryotic expression of antibodies and affibodies. <i>Current Opinion in Biotechnology</i> , 2004 , 15, 364-73	11.4	43
50	Recognition of the N-terminal lectin domain of FimH adhesin by the usher FimD is required for type 1 pilus biogenesis. <i>Molecular Microbiology</i> , 2007 , 64, 333-46	4.1	42
49	Direct injection of functional single-domain antibodies from E. coli into human cells. <i>PLoS ONE</i> , 2010 , 5, e15227	3.7	39
48	Autotransporters as scaffolds for novel bacterial adhesins: surface properties of Escherichia coli cells displaying Jun/Fos dimerization domains. <i>Journal of Bacteriology</i> , 2003 , 185, 5585-90	3.5	38
47	High yield purification of nanobodies from the periplasm of E. coli as fusions with the maltose binding protein. <i>Protein Expression and Purification</i> , 2013 , 91, 42-8	2	37
46	Formation of disulphide bonds during secretion of proteins through the periplasmic-independent type I pathway. <i>Molecular Microbiology</i> , 2001 , 40, 332-46	4.1	36
45	Escherichia coli surface display for the selection of nanobodies. <i>Microbial Biotechnology</i> , 2017 , 10, 1468-1484	6.9	35
44	The fimbrial usher FimD follows the SurA-BamB pathway for its assembly in the outer membrane of Escherichia coli. <i>Journal of Bacteriology</i> , 2011 , 193, 5222-30	3.5	35
43	Disposable amperometric magnetoimmunosensors using nanobodies as biorecognition element. Determination of fibrinogen in plasma. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 255-60	11.8	34
42	Monitoring intracellular levels of XylR in Pseudomonas putida with a single-chain antibody specific for aromatic-responsive enhancer-binding proteins. <i>Journal of Bacteriology</i> , 2001 , 183, 5571-9	3.5	34
41	Whole-Cell Biosensor with Tunable Limit of Detection Enables Low-Cost Agglutination Assays for Medical Diagnostic Applications. <i>ACS Sensors</i> , 2019 , 4, 370-378	9.2	34
40	Attaching and effacing (A/E) lesion formation by enteropathogenic E. coli on human intestinal mucosa is dependent on non-LEE effectors. <i>PLoS Pathogens</i> , 2017 , 13, e1006706	7.6	33
39	Surface proteins and a novel transcription factor regulate the expression of the S-layer gene in Thermus thermophilus HB8. <i>Molecular Microbiology</i> , 1997 , 24, 61-72	4.1	33
38	Mapping cytoskeletal protein function in cells by means of nanobodies. <i>Cytoskeleton</i> , 2013 , 70, 604-22	2.4	32

37	glmS of <i>Thermus thermophilus</i> HB8: an essential gene for cell-wall synthesis identified immediately upstream of the S-layer gene. <i>Molecular Microbiology</i> , 1995 , 17, 1-12	4.1	27
36	Sigma 54 levels and physiological control of the <i>Pseudomonas putida</i> Pu promoter. <i>Journal of Bacteriology</i> , 2003 , 185, 3379-83	3.5	26
35	Engineering the Controlled Assembly of Filamentous Injectisomes in <i>E. coli</i> K-12 for Protein Translocation into Mammalian Cells. <i>ACS Synthetic Biology</i> , 2015 , 4, 1030-41	5.7	24
34	Comparative analysis of the biochemical and functional properties of C-terminal domains of autotransporters. <i>Journal of Bacteriology</i> , 2010 , 192, 5588-602	3.5	22
33	Enteropathogenic <i>Escherichia coli</i> Stimulates Effector-Driven Rapid Caspase-4 Activation in Human Macrophages. <i>Cell Reports</i> , 2019 , 27, 1008-1017.e6	10.6	20
32	Screening and purification of nanobodies from <i>E. coli</i> culture supernatants using the hemolysin secretion system. <i>Microbial Cell Factories</i> , 2019 , 18, 47	6.4	20
31	Neutralization of enteric coronaviruses with <i>Escherichia coli</i> cells expressing single-chain Fv-autotransporter fusions. <i>Journal of Virology</i> , 2003 , 77, 13396-8	6.6	20
30	Type III secretion system effectors form robust and flexible intracellular virulence networks. <i>Science</i> , 2021 , 371,	33.3	19
29	High affinity nanobodies against human epidermal growth factor receptor selected on cells by <i>E. coli</i> display. <i>MABs</i> , 2016 , 8, 1286-1301	6.6	19
28	IV. Molecular biology of S-layers. <i>FEMS Microbiology Reviews</i> , 1997 , 20, 47-98	15.1	18
27	Specific residues in the N-terminal domain of FimH stimulate type 1 fimbriae assembly in <i>Escherichia coli</i> following the initial binding of the adhesin to FimD usher. <i>Molecular Microbiology</i> , 2008 , 69, 911-25	4.1	18
26	Programmable Modular Assembly of Functional Proteins on Raman-Encoded Zeolitic Imidazolate Framework-8 (ZIF-8) Nanoparticles as SERS Tags. <i>Chemistry of Materials</i> , 2020 , 32, 5739-5749	9.6	17
25	Potent neutralization of clinical isolates of SARS-CoV-2 D614 and G614 variants by a monomeric, sub-nanomolar affinity nanobody. <i>Scientific Reports</i> , 2021 , 11, 3318	4.9	16
24	In vivo diversification of target genomic sites using processive base deaminase fusions blocked by dCas9. <i>Nature Communications</i> , 2020 , 11, 6436	17.4	15
23	Sustainable therapies by engineered bacteria. <i>Microbial Biotechnology</i> , 2017 , 10, 1057-1061	6.3	15
22	Secretion of proteins with dimerization capacity by the haemolysin type I transport system of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2004 , 53, 1109-21	4.1	14
21	Multiple regulatory mechanisms act on the 5' untranslated region of the S-layer gene from <i>Thermus thermophilus</i> HB8. <i>Journal of Bacteriology</i> , 2001 , 183, 1491-4	3.5	14
20	Characterization of L-glutamine:D-fructose-6-phosphate amidotransferase from an extreme thermophile <i>Thermus thermophilus</i> HB8. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 337, 129-36	4.1	13

19	Synthetic consortia of nanobody-coupled and formatted bacteria for prophylaxis and therapy interventions targeting microbiome dysbiosis-associated diseases and co-morbidities. <i>Microbial Biotechnology</i> , 2019 , 12, 58-65	6.3	11
18	Nuclear matrix attachment regions confer long-range function upon the immunoglobulin mu enhancer. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1998 , 63, 515-24	3.9	10
17	Characterization of nanobodies binding human fibrinogen selected by E. coli display. <i>Journal of Biotechnology</i> , 2016 , 234, 58-65	3.7	10
16	Direct Evaluation of Live Uropathogenic Escherichia coli Adhesion and Efficiency of Antiadhesive Compounds Using a Simple Microarray Approach. <i>Analytical Chemistry</i> , 2018 , 90, 12314-12321	7.8	9
15	Potent neutralization of clinical isolates of SARS-CoV-2 D614 and G614 variants by a monomeric, sub-nanomolar affinity Nanobody		7
14	A nanobody targeting the translocated intimin receptor inhibits the attachment of enterohemorrhagic E. coli to human colonic mucosa. <i>PLoS Pathogens</i> , 2019 , 15, e1008031	7.6	6
13	Pathogenomics: an updated European Research Agenda. <i>Infection, Genetics and Evolution</i> , 2008 , 8, 386-92.5	4.5	6
12	In vivo drafting of single-chain antibodies for regulatory duty on the sigma54-promoter Pu of the TOL plasmid. <i>Molecular Microbiology</i> , 2006 , 60, 1218-27	4.1	5
11	Clustering of Tir during enteropathogenic E. coli infection triggers calcium influx-dependent pyroptosis in intestinal epithelial cells. <i>PLoS Biology</i> , 2020 , 18, e3000986	9.7	3
10	Synthetic biology: at the crossroads of genetic engineering and human therapeutics-a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021 ,	6.5	1
9	In vivodiversification of target genomic sites using processive T7 RNA polymerase-base deaminase fusions blocked by RNA-guided dCas9		1
8	ssDNA recombineering boosts in vivo evolution of nanobodies displayed on bacterial surfaces		1
7	Nanobodies Protecting From Lethal SARS-CoV-2 Infection Target Receptor Binding Epitopes Preserved in Virus Variants Other Than Omicron.. <i>Frontiers in Immunology</i> , 2022 , 13, 863831	8.4	1
6	ssDNA recombineering boosts in vivo evolution of nanobodies displayed on bacterial surfaces. <i>Communications Biology</i> , 2021 , 4, 1169	6.7	0
5	Identification of Nanobodies Blocking Intimate Adherence of Shiga Toxin-Producing Escherichia coli to Epithelial Cells. <i>Methods in Molecular Biology</i> , 2021 , 2291, 253-272	1.4	0
4	Production and characterization of a recombinant single-chain antibody (scFv) for tracing the B4 factor of Pseudomonas putida. <i>Journal of Biotechnology</i> , 2012 , 160, 33-41	3.7	
3	A novel set of vectors for genome engineering of E. coli strains. <i>New Biotechnology</i> , 2012 , 29, S160	6.4	
2	Engineering Escherichia coli to Combat Cancer 2019 , 253-290		

- 1 Analyzing the Role of Periplasmic Folding Factors in the Biogenesis of OMPs and Members of the Type V Secretion System. *Methods in Molecular Biology*, **2015**, 1329, 77-110

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