Eric Cascales

List of Publications by Year
in descending order

133 papers	10,020 citations	44444 50 h-index	43601 95 g-index
141 all docs	141 docs citations	141 times ranked	7523 citing authors

#	Article	IF	Citations
1	T6SS: killing two bugs with one stone. Trends in Microbiology, 2022, 30, 1-2.	3.5	1
2	Protein Interactome Analysis of the Type IX Secretion System Identifies PorW as the Missing Link between the PorK/N Ring Complex and the Sov Translocon. Microbiology Spectrum, 2022, 10, e0160221.	1.2	15
3	Structural and functional analyses of the Porphyromonas gingivalis type IX secretion system PorN protein. Journal of Biological Chemistry, 2022, 298, 101618.	1.6	3
4	Dynamic proton-dependent motors power type IX secretion and gliding motility in Flavobacterium. PLoS Biology, 2022, 20, e3001443.	2.6	14
5	A unique bacterial secretion machinery with multiple secretion centers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119907119.	3.3	17
6	Molecular Strategies Underlying Porphyromonas gingivalis Virulence. Journal of Molecular Biology, 2021, 433, 166836.	2.0	52
7	Anchoring the T6SS to the cell wall: Crystal structure of the peptidoglycan binding domain of the TagL accessory protein. PLoS ONE, 2021, 16, e0254232.	1.1	7
8	<i>Photorhabdus</i> antibacterial Rhs polymorphic toxin inhibits translation through ADP-ribosylation of 23S ribosomal RNA. Nucleic Acids Research, 2021, 49, 8384-8395.	6.5	21
9	The <scp><i>Azospirillum brasilense</i></scp> type <scp>VI</scp> secretion system promotes cell aggregation, biocontrol protection against phytopathogens and attachment to the microalgae <scp><i>Chlorella sorokiniana</i></scp>. Environmental Microbiology, 2021, 23, 6257-6274.	1.8	20
10	A Tad-like apparatus is required for contact-dependent prey killing in predatory social bacteria. ELife, 2021, 10, .	2.8	42
11	Mounting, structure and autocleavage of a type VI secretion-associated Rhs polymorphic toxin. Nature Communications, 2021, 12, 6998.	5.8	27
12	Fur-Dam Regulatory Interplay at an Internal Promoter of the Enteroaggregative Escherichia coli Type VI Secretion sci1 Gene Cluster. Journal of Bacteriology, 2020, 202, .	1.0	15
13	Structural basis for loading and inhibition of a bacterial T6 <scp>SS</scp> phospholipase effector by the VgrG spike. EMBO Journal, 2020, 39, e104129.	3.5	31
14	Structure and Activity of the Type VI Secretion System. Microbiology Spectrum, 2019, 7, .	1.2	95
15	Cell Width Dictates Type VI Secretion Tail Length. Current Biology, 2019, 29, 3707-3713.e3.	1.8	15
16	Role and Recruitment of the TagL Peptidoglycan-Binding Protein during Type VI Secretion System Biogenesis. Journal of Bacteriology, 2019, 201, .	1.0	8
17	<i>In situ</i> and highâ€resolution cryoâ€•<scp>EM</scp> structure of a bacterial type <scp>VI</scp> secretion system membrane complex. EMBO Journal, 2019, 38, .	3.5	72
18	Type I Secretion Systems-One Mechanism for All?. , 2019, , 215-225.		3

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19	Sortases, Surface Proteins, and Their Roles inStaphylococcus aureusDisease and Vaccine Development. , 2019, , 173-188.		3
20	Similarities and Differences between Colicin and Filamentous Phage Uptake by Bacterial Cells. , 2019, , 375-387.		0
21	A Hybrid Secretion System Facilitates Bacterial Sporulation: A Structural Perspective. , 2019, , 389-399.		1
22	Architecture, Function, and Substrates of the Type II Secretion System. , 2019, , 227-244.		2
23	Gram-Positive Type IV Pili and Competence. , 2019, , 129-135.		0
24	Architecture and Assembly of Periplasmic Flagellum. , 2019, , 189-199.		0
25	The Injectisome, a Complex Nanomachine for Protein Injection into Mammalian Cells. , 2019, , 245-259.		1
26	Bordetella Filamentous Hemagglutinin, a Model for the Two-Partner Secretion Pathway. , 2019, , 319-328.		1
27	Protein Secretion in Spirochetes. , 2019, , 77-89.		1
28	The Remarkable Biomechanical Properties of the Type 1 Chaperone-Usher Pilus: A Structural and Molecular Perspective. , 2019, , 137-148.		2
29	The Dynamic Structures of the Type IV Pilus. , 2019, , 113-128.		2
30	Curli Biogenesis: Bacterial Amyloid Assembly by the Type VIII Secretion Pathway. , 2019, , 163-171.		3
31	The Twin-Arginine Pathway for Protein Secretion. , 2019, , 53-66.		2
32	Tryptophan-mediated Dimerization of the TssL Transmembrane Anchor Is Required for Type VI Secretion System Activity. Journal of Molecular Biology, 2018, 430, 987-1003.	2.0	14
33	Type IX secretion system PorM and gliding machinery GldM form arches spanning the periplasmic space. Nature Communications, 2018, 9, 429.	5.8	54
34	Towards a complete structural deciphering of Type VI secretion system. Current Opinion in Structural Biology, 2018, 49, 77-84.	2.6	78
35	Antibacterial Weapons: Targeted Destruction in the Microbiota. Trends in Microbiology, 2018, 26, 329-338.	3.5	106
36	Structureâ€"Function Analysis of the C-Terminal Domain of the Type VI Secretion TssB Tail Sheath Subunit. Journal of Molecular Biology, 2018, 430, 297-309.	2.0	6

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37	In vivo TssA proximity labelling during type VI secretion biogenesis reveals TagA as a protein that stops and holds the sheath. Nature Microbiology, 2018, 3, 1304-1313.	5.9	67
38	Biogenesis and structure of a type VI secretion baseplate. Nature Microbiology, 2018, 3, 1404-1416.	5.9	76
39	The gp27-like Hub of VgrG Serves as Adaptor to Promote Hcp Tube Assembly. Journal of Molecular Biology, 2018, 430, 3143-3156.	2.0	47
40	Characterization of the Porphyromonas gingivalis Type IX Secretion Trans-envelope PorKLMNP Core Complex. Journal of Biological Chemistry, 2017, 292, 3252-3261.	1.6	60
41	Inside the Chamber of Secrets of the Type III Secretion System. Cell, 2017, 168, 949-951.	13.5	8
42	Domestication of a housekeeping transglycosylase for assembly of a Type VI secretion system. EMBO Reports, 2017, 18, 138-149.	2.0	68
43	Fusion Reporter Approaches to Monitoring Transmembrane Helix Interactions in Bacterial Membranes. Methods in Molecular Biology, 2017, 1615, 199-210.	0.4	3
44	TssA: The cap protein of the Type VI secretion system tail. BioEssays, 2017, 39, 1600262.	1.2	37
45	Microbiology: And Amoebophilus Invented the Machine Gun!. Current Biology, 2017, 27, R1170-R1173.	1.8	15
46	Type VI secretion TssK baseplate protein exhibits structural similarity with phage receptor-binding proteins and evolved to bind the membrane complex. Nature Microbiology, 2017, 2, 17103.	5.9	48
47	Probing Inner Membrane Protein Topology by Proteolysis. Methods in Molecular Biology, 2017, 1615, 97-103.	0.4	0
48	Measure of Peptidoglycan Hydrolase Activity. Methods in Molecular Biology, 2017, 1615, 151-158.	0.4	11
49	The PorX Response Regulator of the Porphyromonas gingivalis PorXY Two-Component System Does Not Directly Regulate the Type IX Secretion Genes but Binds the PorL Subunit. Frontiers in Cellular and Infection Microbiology, 2016, 6, 96.	1.8	24
50	The Type VI Secretion System in <i>Escherichia coli</i> and Related Species. EcoSal Plus, 2016, 7, .	2.1	91
51	Structureâ€“Function Analysis of the TssL Cytoplasmic Domain Reveals a New Interaction between the Type VI Secretion Baseplate and Membrane Complexes. Journal of Molecular Biology, 2016, 428, 4413-4423.	2.0	33
52	Molecular Dissection of the Interface between the Type VI Secretion TssM Cytoplasmic Domain and the TssG Baseplate Component. Journal of Molecular Biology, 2016, 428, 4424-4437.	2.0	39
53	<i>Salmonella</i> Typhimurium utilizes a T6SS-mediated antibacterial weapon to establish in the host gut. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5044-51.	3.3	268
54	Structure and specificity of the Type VI secretion system ClpV-TssC interaction in enteroaggregative Escherichia coli. Scientific Reports, 2016, 6, 34405.	1.6	31

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55	A phospholipase A₁ antibacterial Type VI secretion effector interacts directly with the Câ€terminal domain of the VgrG spike protein for delivery. Molecular Microbiology, 2016, 99, 1099-1118.	1.2	179
56	Priming and polymerization of a bacterial contractile tail structure. Nature, 2016, 531, 59-63.	13.7	127
57	The Type VI Secretion TssEFGK-VgrG Phage-Like Baseplate Is Recruited to the TssJLM Membrane Complex via Multiple Contacts and Serves As Assembly Platform for Tail Tube/Sheath Polymerization. PLoS Genetics, 2015, 11, e1005545.	1.5	148
58	Crystallization and preliminary X-ray analysis of the C-terminal fragment of PorM, a subunit of thePorphyromonas gingivalistype IX secretion system. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 71-74.	0.4	6
59	Biogenesis and structure of a type VI secretion membrane core complex. Nature, 2015, 523, 555-560.	13.7	241
60	H-NS Silencing of the Salmonella Pathogenicity Island 6-Encoded Type VI Secretion System Limits Salmonella enterica Serovar Typhimurium Interbacterial Killing. Infection and Immunity, 2015, 83, 2738-2750.	1.0	60
61	Production, crystallization and X-ray diffraction analysis of a complex between a fragment of the TssM T6SS protein and a camelid nanobody. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 266-271.	0.4	6
62	Inhibition of Type VI Secretion by an Anti-TssM Llama Nanobody. PLoS ONE, 2015, 10, e0122187.	1.1	16
63	IHF Is Required for the Transcriptional Regulation of the Desulfovibrio vulgaris Hildenborough orp Operons. PLoS ONE, 2014, 9, e86507.	1.1	8
64	Transcriptional Frameshifting Rescues Citrobacter rodentium Type VI Secretion by the Production of Two Length Variants from the Prematurely Interrupted tssM Gene. PLoS Genetics, 2014, 10, e1004869.	1.5	14
65	Architecture and assembly of the Type VI secretion system. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1664-1673.	1.9	246
66	Type <scp>VI</scp> secretion and bacteriophage tail tubes share a common assembly pathway. EMBO Reports, 2014, 15, 315-321.	2.0	124
67	VgrG, Tae, Tle, and beyond: the versatile arsenal of Type VI secretion effectors. Trends in Microbiology, 2014, 22, 498-507.	3.5	240
68	Crystal Structure and Self-Interaction of the Type VI Secretion Tail-Tube Protein from Enteroaggregative Escherichia coli. PLoS ONE, 2014, 9, e86918.	1.1	44
69	TssK Is a Trimeric Cytoplasmic Protein Interacting with Components of Both Phage-like and Membrane Anchoring Complexes of the Type VI Secretion System. Journal of Biological Chemistry, 2013, 288, 27031-27041.	1.6	100
70	Imaging Type VI Secretion-Mediated Bacterial Killing. Cell Reports, 2013, 3, 36-41.	2.9	124
71	Promoter Swapping Unveils the Role of the Citrobacter rodentium CTS1 Type VI Secretion System in Interbacterial Competition. Applied and Environmental Microbiology, 2013, 79, 32-38.	1.4	56
72	DNA Substrate-Induced Activation of the Agrobacterium VirB/VirD4 Type IV Secretion System. Journal of Bacteriology, 2013, 195, 2691-2704.	1.0	52

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73	Dissection of the TssB-TssC Interface during Type VI Secretion Sheath Complex Formation. PLoS ONE, 2013, 8, e81074.	1.1	19
74	Expression of a Yersinia pseudotuberculosis Type VI Secretion System Is Responsive to Envelope Stresses through the OmpR Transcriptional Activator. PLoS ONE, 2013, 8, e66615.	1.1	52
75	Energetics of colicin import revealed by genetic cross-complementation between the Tol and Ton systems. Biochemical Society Transactions, 2012, 40, 1480-1485.	1.6	20
76	Crystal Structure of the VgrG1 Actin Cross-linking Domain of the Vibrio cholerae Type VI Secretion System. Journal of Biological Chemistry, 2012, 287, 38190-38199.	1.6	60
77	Structural Characterization and Oligomerization of the TssL Protein, a Component Shared by Bacterial Type VI and Type IVb Secretion Systems. Journal of Biological Chemistry, 2012, 287, 14157-14168.	1.6	91
78	Structure and Regulation of the Type VI Secretion System. Annual Review of Microbiology, 2012, 66, 453-472.	2.9	329
79	The Câ€tail anchored TssL subunit, an essential protein of the enteroaggregative <i>Escherichia coli</i> Sciâ€1 Type VI secretion system, is inserted by YidC. MicrobiologyOpen, 2012, 1, 71-82.	1.2	74
80	Structural biology of type VI secretion systems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1102-1111.	1.8	191
81	The Anaerobe-Specific Orange Protein Complex of Desulfovibrio vulgaris Hildenborough Is Encoded by Two Divergent Operons Coregulated by Ïƒ ⁵⁴ and a Cognate Transcriptional Regulator. Journal of Bacteriology, 2011, 193, 3207-3219.	1.0	22
82	Motor-driven intracellular transport powers bacterial gliding motility. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7559-7564.	3.3	153
83	Mapping the Interactions between Escherichia coli TolQ Transmembrane Segments. Journal of Biological Chemistry, 2011, 286, 11756-11764.	1.6	20
84	An Agrobacterium VirB10 Mutation Conferring a Type IV Secretion System Gating Defect. Journal of Bacteriology, 2011, 193, 2566-2574.	1.0	42
85	Regulation of Type VI Secretion Gene Clusters by Ïƒ ⁵⁴ and Cognate Enhancer Binding Proteins. Journal of Bacteriology, 2011, 193, 2158-2167.	1.0	75
86	An Epigenetic Switch Involving Overlapping Fur and DNA Methylation Optimizes Expression of a Type VI Secretion Gene Cluster. PLoS Genetics, 2011, 7, e1002205.	1.5	111
87	Towards a Structural Comprehension of Bacterial Type VI Secretion Systems: Characterization of the TssJ-TssM Complex of an Escherichia coli Pathovar. PLoS Pathogens, 2011, 7, e1002386.	2.1	132
88	The SciZ protein anchors the enteroaggregative <i>Escherichia coli</i> Type VI secretion system to the cell wall. Molecular Microbiology, 2010, 75, 886-899.	1.2	133
89	Anchoring the type VI secretion system to the peptidoglycan: TssL, TagL, TagP... what else?. Virulence, 2010, 1, 535-540.	1.8	82
90	Nooks and Crannies in Type VI Secretion Regulation. Journal of Bacteriology, 2010, 192, 3850-3860.	1.0	146

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91	Interaction of the Colicin K Bactericidal Toxin with Components of Its Import Machinery in the Periplasm of<i>Escherichia coli</i>. Journal of Bacteriology, 2010, 192, 5934-5942.	1.0	9
92	The SciZ protein anchors the enteroaggregative<i>Escherichia coli</i>Type VI secretion system to the cell wall. Molecular Microbiology, 2010, 75, 886.	1.2	1
93	HxcQ Liposecretin Is Self-piloted to the Outer Membrane by Its N-terminal Lipid Anchor. Journal of Biological Chemistry, 2009, 284, 33815-33823.	1.6	64
94	Mapping the Interactions between Escherichia coli Tol Subunits. Journal of Biological Chemistry, 2009, 284, 4275-4282.	1.6	26
95	The TolQ-TolR proteins energize TolA and share homologies with the flagellar motor proteins â€¨MotA-MotB. Molecular Microbiology, 2008, 42, 795-807.	1.2	177
96	The type VI secretion toolkit. EMBO Reports, 2008, 9, 735-741.	2.0	285
97	SciN Is an Outer Membrane Lipoprotein Required for Type VI Secretion in Enteroaggregative<i>Escherichia coli</i>. Journal of Bacteriology, 2008, 190, 7523-7531.	1.0	224
98	Movements of the TolR C-terminal Domain Depend on TolQR Ionizable Key Residues and Regulate Activity of the Tol Complex. Journal of Biological Chemistry, 2007, 282, 17749-17757.	1.6	37
99	Mutational Analyses Define Helix Organization and Key Residues of a Bacterial Membrane Energy-transducing Complex. Journal of Molecular Biology, 2007, 366, 1424-1436.	2.0	50
100	Colicin Biology. Microbiology and Molecular Biology Reviews, 2007, 71, 158-229.	2.9	902
101	Agrobacterium ParA/MinD-like VirC1 spatially coordinates early conjugative DNA transfer reactions. EMBO Journal, 2007, 26, 2540-2551.	3.5	102
102	Agrobacterium tumefaciensoncogenic suppressors inhibit T-DNA and VirE2 protein substrate binding to the VirD4 coupling protein. Molecular Microbiology, 2005, 58, 565-579.	1.2	35
103	Tol-Dependent Macromolecule Import through the Escherichia coli Cell Envelope Requires the Presence of an Exposed TolA Binding Motif. Journal of Bacteriology, 2005, 187, 7526-7534.	1.0	20
104	Agrobacterium tumefaciens VirB9, an Outer-Membrane-Associated Component of a Type IV Secretion System, Regulates Substrate Selection and T-Pilus Biogenesis. Journal of Bacteriology, 2005, 187, 3486-3495.	1.0	84
105	BIOGENESIS, ARCHITECTURE, AND FUNCTION OF BACTERIAL TYPE IV SECRETION SYSTEMS. Annual Review of Microbiology, 2005, 59, 451-485.	2.9	573
106	Structural and dynamic properties of bacterial Type IV secretion systems (Review). Molecular Membrane Biology, 2005, 22, 51-61.	2.0	114
107	Agrobacterium VirB10, an ATP energy sensor required for type IV secretion. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17228-17233.	3.3	141
108	Definition of a Bacterial Type IV Secretion Pathway for a DNA Substrate. Science, 2004, 304, 1170-1173.	6.0	329

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109	Energetic components VirD4, VirB11 and VirB4 mediate early DNA transfer reactions required for bacterial type IV secretion. Molecular Microbiology, 2004, 54, 1199-1211.	1.2	190
110	Agrobacterium tumefaciens VirB6 Domains Direct the Ordered Export of a DNA Substrate Through a Type IV Secretion System. Journal of Molecular Biology, 2004, 341, 961-977.	2.0	110
111	Deletion analyses of the peptidoglycan-associated lipoprotein Pal reveals three independent binding sequences including a TolA box. Molecular Microbiology, 2003, 51, 873-885.	1.2	74
112	The versatile bacterial type IV secretion systems. Nature Reviews Microbiology, 2003, 1, 137-149.	13.6	602
113	Pal Lipoprotein of <i>Escherichia coli</i> Plays a Major Role in Outer Membrane Integrity. Journal of Bacteriology, 2002, 184, 754-759.	1.0	252
114	Analysis of the Escherichia coli Tolâ€“Pal and TonB systems by periplasmic production of Tol, TonB, colicin, or phage capsid soluble domains. Biochimie, 2002, 84, 413-421.	1.3	37
115	The Tol-Pal proteins of the Escherichia coli cell envelope: an energized system required for outer membrane integrity?. Research in Microbiology, 2001, 152, 523-529.	1.0	157
116	Proton motive force drives the interaction of the inner membrane TolA and outer membrane Pal proteins in Escherichia coli. Molecular Microbiology, 2000, 38, 904-915.	1.2	139
117	SecA-Mediated Protein Translocation through the SecYEG Channel. , 0, , 13-28.		0
118	Outer Membrane Vesicle-Host Cell Interactions. , 0, , 201-214.		7
119	Hostile Takeover: Hijacking of Endoplasmic Reticulum Function by T4SS and T3SS Effectors Creates a Niche for Intracellular Pathogens. , 0, , 291-305.		1
120	ESX/Type VII Secretion Systems-An Important Way Out for Mycobacterial Proteins. , 0, , 351-362.		5
121	The TAM: A Translocation and Assembly Module of the Î²-barrel Assembly Machinery in Bacterial Outer Membranes. , 0, , 103-111.		2
122	Biological and Structural Diversity of Type IV Secretion Systems. , 0, , 277-289.		2
123	<i>Bacteroidetes</i> Gliding Motility and the Type IX Secretion System. , 0, , 363-374.		4
124	Type VI Secretion Systems and the Gut Microbiota. , 0, , 343-350.		3
125	Structure and Activity of the Type VI Secretion System. , 0, , 329-342.		7
126	Lipoproteins and Their Trafficking to the Outer Membrane. , 0, , 67-76.		22

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127	Electron Cryotomography of Bacterial Secretion Systems. , 0, , 1-12.		0
128	The Two Distinct Types of SecA2-Dependent Export Systems. , 0, , 29-41.		1
129	Outer Membrane Protein Insertion by the Î²-barrel Assembly Machine. , 0, , 91-101.		4
130	Promises and Challenges of the Type Three Secretion System Injectisome as an Antivirulence Target. , 0, , 261-276.		1
131	The Conserved Role of YidC in Membrane Protein Biogenesis. , 0, , 43-51.		1
132	Therapeutic Approaches Targeting the Assembly and Function of Chaperone-Usher Pili. , 0, , 149-161.		0
133	Type V Secretion in Gram-Negative Bacteria. , 0, , 307-318.		0