

# Eric Cascales

## List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Colicin Biology. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 158-229.	6.6	902
2	The versatile bacterial type IV secretion systems. <i>Nature Reviews Microbiology</i> , 2003, 1, 137-149.	28.6	602
3	BIOGENESIS, ARCHITECTURE, AND FUNCTION OF BACTERIAL TYPE IV SECRETION SYSTEMS. <i>Annual Review of Microbiology</i> , 2005, 59, 451-485.	7.3	573
4	Definition of a Bacterial Type IV Secretion Pathway for a DNA Substrate. <i>Science</i> , 2004, 304, 1170-1173.	12.6	329
5	Structure and Regulation of the Type VI Secretion System. <i>Annual Review of Microbiology</i> , 2012, 66, 453-472.	7.3	329
6	The type VI secretion toolkit. <i>EMBO Reports</i> , 2008, 9, 735-741.	4.5	285
7	<i>Salmonella</i> Typhimurium utilizes a T6SS-mediated antibacterial weapon to establish in the host gut. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5044-51.	7.1	268
8	Pal Lipoprotein of <i>Escherichia coli</i> Plays a Major Role in Outer Membrane Integrity. <i>Journal of Bacteriology</i> , 2002, 184, 754-759.	2.2	252
9	Architecture and assembly of the Type VI secretion system. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1664-1673.	4.1	246
10	Biogenesis and structure of a type VI secretion membrane core complex. <i>Nature</i> , 2015, 523, 555-560.	27.8	241
11	VgrG, Tae, Tle, and beyond: the versatile arsenal of Type VI secretion effectors. <i>Trends in Microbiology</i> , 2014, 22, 498-507.	7.7	240
12	SciN Is an Outer Membrane Lipoprotein Required for Type VI Secretion in Enteroaggregative <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008, 190, 7523-7531.	2.2	224
13	Structural biology of type VI secretion systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1102-1111.	4.0	191
14	Energetic components VirD4, VirB11 and VirB4 mediate early DNA transfer reactions required for bacterial type IV secretion. <i>Molecular Microbiology</i> , 2004, 54, 1199-1211.	2.5	190
15	A phospholipase A <sub>1</sub> antibacterial Type VI secretion effector interacts directly with the C-terminal domain of the VgrG spike protein for delivery. <i>Molecular Microbiology</i> , 2016, 99, 1099-1118.	2.5	179
16	The TolQ-TolR proteins energize TolA and share homologies with the flagellar motor proteins $\sigma$ -MotA-MotB. <i>Molecular Microbiology</i> , 2008, 42, 795-807.	2.5	177
17	The Tol-Pal proteins of the <i>Escherichia coli</i> cell envelope: an energized system required for outer membrane integrity?. <i>Research in Microbiology</i> , 2001, 152, 523-529.	2.1	157
18	Motor-driven intracellular transport powers bacterial gliding motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7559-7564.	7.1	153

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19	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.	3.5	148
20	Nooks and Crannies in Type VI Secretion Regulation. Journal of Bacteriology, 2010, 192, 3850-3860.	2.2	146
21	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.	7.1	141
22	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.	2.5	139
23	The SciZ protein anchors the enteroaggregative <i>Escherichia coli</i> Type VI secretion system to the cell wall. Molecular Microbiology, 2010, 75, 886-899.	2.5	133
24	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.	4.7	132
25	Priming and polymerization of a bacterial contractile tail structure. Nature, 2016, 531, 59-63.	27.8	127
26	Imaging Type VI Secretion-Mediated Bacterial Killing. Cell Reports, 2013, 3, 36-41.	6.4	124
27	Type VI secretion and bacteriophage tail tubes share a common assembly pathway. EMBO Reports, 2014, 15, 315-321.	4.5	124
28	Structural and dynamic properties of bacterial Type IV secretion systems (Review). Molecular Membrane Biology, 2005, 22, 51-61.	2.0	114
29	An Epigenetic Switch Involving Overlapping Fur and DNA Methylation Optimizes Expression of a Type VI Secretion Gene Cluster. PLoS Genetics, 2011, 7, e1002205.	3.5	111
30	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.	4.2	110
31	Antibacterial Weapons: Targeted Destruction in the Microbiota. Trends in Microbiology, 2018, 26, 329-338.	7.7	106
32	Agrobacterium ParA/MinD-like VirC1 spatially coordinates early conjugative DNA transfer reactions. EMBO Journal, 2007, 26, 2540-2551.	7.8	102
33	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.	3.4	100
34	Structure and Activity of the Type VI Secretion System. Microbiology Spectrum, 2019, 7, .	3.0	95
35	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.	3.4	91
36	The Type VI Secretion System in <i>Escherichia coli</i> and Related Species. EcoSal Plus, 2016, 7, .	5.4	91

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37	<i>Agrobacterium tumefaciens</i> VirB9, an Outer-Membrane-Associated Component of a Type IV Secretion System, Regulates Substrate Selection and T-Pilus Biogenesis. <i>Journal of Bacteriology</i> , 2005, 187, 3486-3495.	2.2	84
38	Anchoring the type VI secretion system to the peptidoglycan: TssL, TagL, TagP... what else?. <i>Virulence</i> , 2010, 1, 535-540.	4.4	82
39	Towards a complete structural deciphering of Type VI secretion system. <i>Current Opinion in Structural Biology</i> , 2018, 49, 77-84.	5.7	78
40	Biogenesis and structure of a type VI secretion baseplate. <i>Nature Microbiology</i> , 2018, 3, 1404-1416.	13.3	76
41	Regulation of Type VI Secretion Gene Clusters by <i>Yj</i> <sup>54</sup> and Cognate Enhancer Binding Proteins. <i>Journal of Bacteriology</i> , 2011, 193, 2158-2167.	2.2	75
42	Deletion analyses of the peptidoglycan-associated lipoprotein Pal reveals three independent binding sequences including a TolA box. <i>Molecular Microbiology</i> , 2003, 51, 873-885.	2.5	74
43	The C-tail anchored TssL subunit, an essential protein of the enteroaggregative <i>Escherichia coli</i> Type VI secretion system, is inserted by YidC. <i>MicrobiologyOpen</i> , 2012, 1, 71-82.	3.0	74
44	In situ and high-resolution cryo-EM structure of a bacterial type VI secretion system membrane complex. <i>EMBO Journal</i> , 2019, 38, .	7.8	72
45	Domestication of a housekeeping transglycosylase for assembly of a Type VI secretion system. <i>EMBO Reports</i> , 2017, 18, 138-149.	4.5	68
46	In vivo TssA proximity labelling during type VI secretion biogenesis reveals TagA as a protein that stops and holds the sheath. <i>Nature Microbiology</i> , 2018, 3, 1304-1313.	13.3	67
47	HxcQ Liposecretin Is Self-piloted to the Outer Membrane by Its N-terminal Lipid Anchor. <i>Journal of Biological Chemistry</i> , 2009, 284, 33815-33823.	3.4	64
48	Crystal Structure of the VgrG1 Actin Cross-linking Domain of the <i>Vibrio cholerae</i> Type VI Secretion System. <i>Journal of Biological Chemistry</i> , 2012, 287, 38190-38199.	3.4	60
49	H-NS Silencing of the <i>Salmonella</i> Pathogenicity Island 6-Encoded Type VI Secretion System Limits <i>Salmonella enterica</i> Serovar Typhimurium Interbacterial Killing. <i>Infection and Immunity</i> , 2015, 83, 2738-2750.	2.2	60
50	Characterization of the <i>Porphyromonas gingivalis</i> Type IX Secretion Trans-envelope PorKLMNP Core Complex. <i>Journal of Biological Chemistry</i> , 2017, 292, 3252-3261.	3.4	60
51	Promoter Swapping Unveils the Role of the <i>Citrobacter rodentium</i> CTS1 Type VI Secretion System in Interbacterial Competition. <i>Applied and Environmental Microbiology</i> , 2013, 79, 32-38.	3.1	56
52	Type IX secretion system PorM and gliding machinery GldM form arches spanning the periplasmic space. <i>Nature Communications</i> , 2018, 9, 429.	12.8	54
53	DNA Substrate-Induced Activation of the <i>Agrobacterium</i> VirB/VirD4 Type IV Secretion System. <i>Journal of Bacteriology</i> , 2013, 195, 2691-2704.	2.2	52
54	Expression of a <i>Yersinia pseudotuberculosis</i> Type VI Secretion System Is Responsive to Envelope Stresses through the OmpR Transcriptional Activator. <i>PLoS ONE</i> , 2013, 8, e66615.	2.5	52

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55	Molecular Strategies Underlying Porphyromonas gingivalis Virulence. Journal of Molecular Biology, 2021, 433, 166836.	4.2	52
56	Mutational Analyses Define Helix Organization and Key Residues of a Bacterial Membrane Energy-transducing Complex. Journal of Molecular Biology, 2007, 366, 1424-1436.	4.2	50
57	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.	13.3	48
58	The gp27-like Hub of VgrG Serves as Adaptor to Promote Hcp Tube Assembly. Journal of Molecular Biology, 2018, 430, 3143-3156.	4.2	47
59	Crystal Structure and Self-Interaction of the Type VI Secretion Tail-Tube Protein from Enterococcal Aggregative Escherichia coli. PLoS ONE, 2014, 9, e86918.	2.5	44
60	An Agrobacterium VirB10 Mutation Conferring a Type IV Secretion System Gating Defect. Journal of Bacteriology, 2011, 193, 2566-2574.	2.2	42
61	A Tad-like apparatus is required for contact-dependent prey killing in predatory social bacteria. ELife, 2021, 10, .	6.0	42
62	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.	4.2	39
63	Analysis of the Escherichia coli Tol Pal and TonB systems by periplasmic production of Tol, TonB, colicin, or phage capsid soluble domains. Biochimie, 2002, 84, 413-421.	2.6	37
64	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.	3.4	37
65	TssA: The cap protein of the Type VI secretion system tail. BioEssays, 2017, 39, 1600262.	2.5	37
66	Agrobacterium tumefaciens oncogenic suppressors inhibit T-DNA and VirE2 protein substrate binding to the VirD4 coupling protein. Molecular Microbiology, 2005, 58, 565-579.	2.5	35
67	Structure-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.	4.2	33
68	Structure and specificity of the Type VI secretion system ClpV-TssC interaction in enterococcal Aggregative Escherichia coli. Scientific Reports, 2016, 6, 34405.	3.3	31
69	Structural basis for loading and inhibition of a bacterial T6 phospholipase effector by the VgrG spike. EMBO Journal, 2020, 39, e104129.	7.8	31
70	Mounting, structure and autocleavage of a type VI secretion-associated Rhs polymorphic toxin. Nature Communications, 2021, 12, 6998.	12.8	27
71	Mapping the Interactions between Escherichia coli Tol Subunits. Journal of Biological Chemistry, 2009, 284, 4275-4282.	3.4	26
72	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.	3.9	24

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73	The Anaerobe-Specific Orange Protein Complex of <i>Desulfovibrio vulgaris</i> Hildenborough Is Encoded by Two Divergent Operons Coregulated by $\lambda$ <sup>54</sup> and a Cognate Transcriptional Regulator. <i>Journal of Bacteriology</i> , 2011, 193, 3207-3219.	2.2	22
74	Lipoproteins and Their Trafficking to the Outer Membrane. , 0, , 67-76.		22
75	<i>Phototaxis</i> antibacterial Rhs polymorphic toxin inhibits translation through ADP-ribosylation of 23S ribosomal RNA. <i>Nucleic Acids Research</i> , 2021, 49, 8384-8395.	14.5	21
76	Tol-Dependent Macromolecule Import through the <i>Escherichia coli</i> Cell Envelope Requires the Presence of an Exposed TolA Binding Motif. <i>Journal of Bacteriology</i> , 2005, 187, 7526-7534.	2.2	20
77	Mapping the Interactions between <i>Escherichia coli</i> TolQ Transmembrane Segments. <i>Journal of Biological Chemistry</i> , 2011, 286, 11756-11764.	3.4	20
78	Energetics of colicin import revealed by genetic cross-complementation between the Tol and Ton systems. <i>Biochemical Society Transactions</i> , 2012, 40, 1480-1485.	3.4	20
79	The <i>Azospirillum brasilense</i> type VI secretion system promotes cell aggregation, biocontrol protection against phytopathogens and attachment to the microalgae <i>Chlorella sorokiniana</i> . <i>Environmental Microbiology</i> , 2021, 23, 6257-6274.	3.8	20
80	Dissection of the TssB-TssC Interface during Type VI Secretion Sheath Complex Formation. <i>PLoS ONE</i> , 2013, 8, e81074.	2.5	19
81	A unique bacterial secretion machinery with multiple secretion centers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119907119.	7.1	17
82	Inhibition of Type VI Secretion by an Anti-TssM Llama Nanobody. <i>PLoS ONE</i> , 2015, 10, e0122187.	2.5	16
83	Microbiology: And <i>Amoebophilus</i> Invented the Machine Gun!. <i>Current Biology</i> , 2017, 27, R1170-R1173.	3.9	15
84	Cell Width Dictates Type VI Secretion Tail Length. <i>Current Biology</i> , 2019, 29, 3707-3713.e3.	3.9	15
85	Fur-Dam Regulatory Interplay at an Internal Promoter of the Enterococcal <i>Escherichia coli</i> Type VI Secretion <i>sci1</i> Gene Cluster. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	15
86	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. <i>Microbiology Spectrum</i> , 2022, 10, e0160221.	3.0	15
87	Transcriptional Frameshifting Rescues <i>Citrobacter rodentium</i> Type VI Secretion by the Production of Two Length Variants from the Prematurely Interrupted <i>tssM</i> Gene. <i>PLoS Genetics</i> , 2014, 10, e1004869.	3.5	14
88	Tryptophan-mediated Dimerization of the TssL Transmembrane Anchor Is Required for Type VI Secretion System Activity. <i>Journal of Molecular Biology</i> , 2018, 430, 987-1003.	4.2	14
89	Dynamic proton-dependent motors power type IX secretion and gliding motility in <i>Flavobacterium</i> . <i>PLoS Biology</i> , 2022, 20, e3001443.	5.6	14
90	Measure of Peptidoglycan Hydrolase Activity. <i>Methods in Molecular Biology</i> , 2017, 1615, 151-158.	0.9	11

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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> . <i>Journal of Bacteriology</i> , 2010, 192, 5934-5942.	2.2	9
92	IHF Is Required for the Transcriptional Regulation of the <i>Desulfovibrio vulgaris</i> Hildenborough <i>orp</i> Operons. <i>PLoS ONE</i> , 2014, 9, e86507.	2.5	8
93	Inside the Chamber of Secrets of the Type III Secretion System. <i>Cell</i> , 2017, 168, 949-951.	28.9	8
94	Role and Recruitment of the TagL Peptidoglycan-Binding Protein during Type VI Secretion System Biogenesis. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	8
95	Outer Membrane Vesicle-Host Cell Interactions. , 0, , 201-214.		7
96	Structure and Activity of the Type VI Secretion System. , 0, , 329-342.		7
97	Anchoring the T6SS to the cell wall: Crystal structure of the peptidoglycan binding domain of the TagL accessory protein. <i>PLoS ONE</i> , 2021, 16, e0254232.	2.5	7
98	Crystallization and preliminary X-ray analysis of the C-terminal fragment of PorM, a subunit of the <i>Porphyromonas gingivalis</i> type IX secretion system. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 71-74.	0.8	6
99	Production, crystallization and X-ray diffraction analysis of a complex between a fragment of the TssM T6SS protein and a camelid nanobody. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 266-271.	0.8	6
100	Structure-Function Analysis of the C-Terminal Domain of the Type VI Secretion TssB Tail Sheath Subunit. <i>Journal of Molecular Biology</i> , 2018, 430, 297-309.	4.2	6
101	ESX/Type VII Secretion Systems-An Important Way Out for Mycobacterial Proteins. , 0, , 351-362.		5
102	<i>Bacteroidetes</i> Gliding Motility and the Type IX Secretion System. , 0, , 363-374.		4
103	Outer Membrane Protein Insertion by the $\beta$ -barrel Assembly Machine. , 0, , 91-101.		4
104	Fusion Reporter Approaches to Monitoring Transmembrane Helix Interactions in Bacterial Membranes. <i>Methods in Molecular Biology</i> , 2017, 1615, 199-210.	0.9	3
105	Type I Secretion Systems-One Mechanism for All?. , 2019, , 215-225.		3
106	Sortases, Surface Proteins, and Their Roles in <i>Staphylococcus aureus</i> Disease and Vaccine Development. , 2019, , 173-188.		3
107	Type VI Secretion Systems and the Gut Microbiota. , 0, , 343-350.		3
108	Curli Biogenesis: Bacterial Amyloid Assembly by the Type VIII Secretion Pathway. , 2019, , 163-171.		3

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109	Structural and functional analyses of the <i>Porphyromonas gingivalis</i> type IX secretion system PorN protein. <i>Journal of Biological Chemistry</i> , 2022, 298, 101618.	3.4	3
110	The TAM: A Translocation and Assembly Module of the $\beta$ -barrel Assembly Machinery in Bacterial Outer Membranes. , 0, , 103-111.		2
111	Biological and Structural Diversity of Type IV Secretion Systems. , 0, , 277-289.		2
112	Architecture, Function, and Substrates of the Type II Secretion System. , 2019, , 227-244.		2
113	The Remarkable Biomechanical Properties of the Type 1 Chaperone-Usher Pilus: A Structural and Molecular Perspective. , 2019, , 137-148.		2
114	The Dynamic Structures of the Type IV Pilus. , 2019, , 113-128.		2
115	The Twin-Arginine Pathway for Protein Secretion. , 2019, , 53-66.		2
116	Hostile Takeover: Hijacking of Endoplasmic Reticulum Function by T4SS and T3SS Effectors Creates a Niche for Intracellular Pathogens. , 0, , 291-305.		1
117	A Hybrid Secretion System Facilitates Bacterial Sporulation: A Structural Perspective. , 2019, , 389-399.		1
118	The Injectisome, a Complex Nanomachine for Protein Injection into Mammalian Cells. , 2019, , 245-259.		1
119	<i>Bordetella</i> Filamentous Hemagglutinin, a Model for the Two-Partner Secretion Pathway. , 2019, , 319-328.		1
120	The Two Distinct Types of SecA2-Dependent Export Systems. , 0, , 29-41.		1
121	Protein Secretion in Spirochetes. , 2019, , 77-89.		1
122	Promises and Challenges of the Type Three Secretion System Injectisome as an Antivirulence Target. , 0, , 261-276.		1
123	The SciZ protein anchors the enteroaggregative <i>Escherichia coli</i> Type VI secretion system to the cell wall. <i>Molecular Microbiology</i> , 2010, 75, 886.	2.5	1
124	The Conserved Role of YidC in Membrane Protein Biogenesis. , 0, , 43-51.		1
125	T6SS: killing two bugs with one stone. <i>Trends in Microbiology</i> , 2022, 30, 1-2.	7.7	1
126	Probing Inner Membrane Protein Topology by Proteolysis. <i>Methods in Molecular Biology</i> , 2017, 1615, 97-103.	0.9	0



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127	SecA-Mediated Protein Translocation through the SecYEG Channel. , 0, , 13-28.		0
128	Similarities and Differences between Colicin and Filamentous Phage Uptake by Bacterial Cells. , 2019, , 375-387.		0
129	Gram-Positive Type IV Pili and Competence. , 2019, , 129-135.		0
130	Architecture and Assembly of Periplasmic Flagellum. , 2019, , 189-199.		0
131	Electron Cryotomography of Bacterial Secretion Systems. , 0, , 1-12.		0
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