

# Giovanni Bertoni

## List of Publications by Year in descending order

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40  
papers

1,097  
citations

361296

20  
h-index

414303

32  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1306  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Small RNA ErsA Impacts the Anaerobic Metabolism of <i>Pseudomonas aeruginosa</i> Through Post-Transcriptional Modulation of the Master Regulator Anr. <i>Frontiers in Microbiology</i> , 2021, 12, 691608.	1.5	3
2	The Small RNA ErsA Plays a Role in the Regulatory Network of <i>Pseudomonas aeruginosa</i> Pathogenicity in Airway Infections. <i>MSphere</i> , 2020, 5, .	1.3	8
3	Naked Bacterium: Emerging Properties of a Surfome-Streamlined <i>Pseudomonas putida</i> Strain. <i>ACS Synthetic Biology</i> , 2020, 9, 2477-2492.	1.9	15
4	The Landscape of <i>Pseudomonas aeruginosa</i> Membrane-Associated Proteins. <i>Cells</i> , 2020, 9, 2421.	1.8	14
5	Structural and functional characterization of TgpA, a critical protein for the viability of <i>Pseudomonas aeruginosa</i> . <i>Journal of Structural Biology</i> , 2019, 205, 18-25.	1.3	1
6	The Small RNA ErsA of <i>Pseudomonas aeruginosa</i> Contributes to Biofilm Development and Motility through Post-transcriptional Modulation of AmrZ. <i>Frontiers in Microbiology</i> , 2018, 9, 238.	1.5	27
7	The small RNA Real: a novel regulatory element embedded in the <i>Pseudomonas aeruginosa</i> quorum sensing networks. <i>Environmental Microbiology</i> , 2017, 19, 4220-4237.	1.8	25
8	The PAPI-1 pathogenicity island-encoded small RNA PesA influences <i>Pseudomonas aeruginosa</i> virulence and modulates pyocin S3 production. <i>PLoS ONE</i> , 2017, 12, e0180386.	1.1	13
9	Crystal structure of YeaZ from <i>Pseudomonas aeruginosa</i> . <i>Biochemical and Biophysical Research Communications</i> , 2016, 470, 460-465.	1.0	9
10	Post-transcriptional regulation of the virulence-associated enzyme <i>lgC</i> by the $\sigma^{22}$ -dependent small RNA <i>ErsA</i> of <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2015, 17, 199-214.	1.8	57
11	A shotgun antisense approach to the identification of novel essential genes in <i>Pseudomonas aeruginosa</i> . <i>BMC Microbiology</i> , 2014, 14, 24.	1.3	14
12	Tet-Trap, a genetic approach to the identification of bacterial RNA thermometers: application to <i>Pseudomonas aeruginosa</i> . <i>Rna</i> , 2014, 20, 1963-1976.	1.6	32
13	Evidence for self-association of the alternative sigma factor $\sigma^{54}$ . <i>FEBS Journal</i> , 2013, 280, 1371-1378.	2.2	0
14	Antibiotic pressure compensates the biological cost associated with <i>Pseudomonas aeruginosa</i> hypermutable phenotypes in vitro and in a murine model of chronic airways infection. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 962-969.	1.3	15
15	TgpA, a Protein with a Eukaryotic-Like Transglutaminase Domain, Plays a Critical Role in the Viability of <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2012, 7, e50323.	1.1	12
16	Analysis of <i>Pseudomonas aeruginosa</i> Cell Envelope Proteome by Capture of Surface-Exposed Proteins on Activated Magnetic Nanoparticles. <i>PLoS ONE</i> , 2012, 7, e51062.	1.1	14
17	Comparative Profiling of <i>Pseudomonas aeruginosa</i> Strains Reveals Differential Expression of Novel Unique and Conserved Small RNAs. <i>PLoS ONE</i> , 2012, 7, e36553.	1.1	55
18	Positive Signature-Tagged Mutagenesis in <i>Pseudomonas aeruginosa</i> : Tracking Patho-Adaptive Mutations Promoting Airways Chronic Infection. <i>PLoS Pathogens</i> , 2011, 7, e1001270.	2.1	55

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19	Identification of genes regulated by the Mva-like paralogues TurA and TurB of <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2010, 12, 254-263.	1.8	28
20	Novel auto-inducing expression systems for the development of whole-cell biocatalysts. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 617-25.	1.7	5
21	Transcriptional wiring of the TOL plasmid regulatory network to its host involves the submission of the $\sigma^{54}$ -promoter Pu to the response regulator PprA. <i>Molecular Microbiology</i> , 2008, 69, 698-713.	1.2	24
22	Ultraflat Nickel Substrates for Scanning Probe Microscopy of Polyhistidine-Tagged Proteins. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3747-3750.	1.5	6
23	Biological cost of hypermutation in <i>Pseudomonas aeruginosa</i> strains from patients with cystic fibrosis. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1445-1454.	0.7	85
24	Characterization of the last step of the aerobic phenylacetic acid degradation pathway. <i>Microbiology (United Kingdom)</i> , 2007, 153, 357-365.	0.7	55
25	Integration host factor alters LacI-induced DNA looping. <i>Biophysical Chemistry</i> , 2007, 128, 245-252.	1.5	24
26	Cloning of the <i>Arthrobacter</i> sp. FG1 dehalogenase genes and construction of hybrid pathways in <i>Pseudomonas putida</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 1111-1118.	1.7	7
27	Degradation of o-Xylene by <i>Pseudomonas stutzeri</i> OX1 ( <i>Pseudomonas</i> sp. OX1)., 2007, , 89-105.		0
28	One-step high-throughput assay for quantitative detection of $\beta$ -galactosidase activity in intact Gram-negative bacteria, yeast, and mammalian cells. <i>BioTechniques</i> , 2006, 40, 433-440.	0.8	48
29	Novel Physiological Modulation of the Pu Promoter of TOL Plasmid. <i>Journal of Biological Chemistry</i> , 2004, 279, 7777-7784.	1.6	46
30	Recruitment of $\sigma^{54}$ -RNA Polymerase to the Pu Promoter of <i>Pseudomonas putida</i> through Integration Host Factor-mediated Positioning Switch of $\pm$ Subunit Carboxyl-terminal Domain on an UP-like Element. <i>Journal of Biological Chemistry</i> , 2003, 278, 27695-27702.	1.6	26
31	Evolution of catabolic pathways and metabolic versatility in <i>Pseudomonas stutzeri</i> OX1. <i>Antonie Van Leeuwenhoek</i> , 2001, 79, 135-140.	0.7	15
32	New insights into the activation of o-xylene biodegradation in <i>Pseudomonas stutzeri</i> OX1 by pathway substrates. <i>EMBO Reports</i> , 2001, 2, 409-414.	2.0	30
33	Recruitment of RNA Polymerase Is a Rate-limiting Step for the Activation of the $\sigma^{54}$ Promoter Pu of <i>Pseudomonas putida</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 33790-33794.	1.6	30
34	Active recruitment of sigma 54-RNA polymerase to the Pu promoter of <i>Pseudomonas putida</i> : role of IHF and alpha CTD. <i>EMBO Journal</i> , 1998, 17, 5120-5128.	3.5	76
35	Activation of the toluene-responsive regulator XylR causes a transcriptional switch between sigma54 and sigma70 promoters at the divergent Pr/Ps region of the TOL plasmid. <i>Molecular Microbiology</i> , 1998, 27, 651-659.	1.2	39
36	Analysis of the Gene Cluster Encoding Toluene/ o-Xylene Monooxygenase from <i>Pseudomonas stutzeri</i> OX1. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3626-3632.	1.4	119

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37	Genetic evidence of separate repressor and activator activities of the XylR regulator of the TOL plasmid, pWWO, of <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 1997, 23, 1221-1227.	1.2	25
38	Organisation of the tmb catabolic operons of <i>Pseudomonas putida</i> TMB and evolutionary relationship with the xyl operons of the TOL plasmid pWWO. <i>Gene</i> , 1996, 182, 189-193.	1.0	14
39	Cloning and transposon vectors derived from satellite bacteriophage P4 for genetic manipulation of <i>Pseudomonas</i> and other gram-negative bacteria. <i>Plasmid</i> , 1992, 28, 101-114.	0.4	10
40	Genetic analysis of chromosomal operons involved in degradation of aromatic hydrocarbons in <i>Pseudomonas putida</i> TMB. <i>Journal of Bacteriology</i> , 1990, 172, 6355-6362.	1.0	13