

# Minh-Duy Phan

## List of Publications by Year in descending order

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83  
papers

4,875  
citations

117571

34  
h-index

106281

65  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous assay of every <i>Salmonella</i> Typhi gene using one million transposon mutants. <i>Genome Research</i> , 2009, 19, 2308-2316.	2.4	544
2	Global dissemination of a multidrug resistant <i>Escherichia coli</i> clone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5694-5699.	3.3	498
3	The Influence of Host and Bacterial Genotype on the Development of Disseminated Disease with <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2008, 4, e1000034.	2.1	410
4	Insights into a Multidrug Resistant <i>Escherichia coli</i> Pathogen of the Globally Disseminated ST131 Lineage: Genome Analysis and Virulence Mechanisms. <i>PLoS ONE</i> , 2011, 6, e26578.	1.1	209
5	Discovery of an archetypal protein transport system in bacterial outer membranes. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 506-510.	3.6	192
6	The Serum Resistome of a Globally Disseminated Multidrug Resistant Uropathogenic <i>Escherichia coli</i> Clone. <i>PLoS Genetics</i> , 2013, 9, e1003834.	1.5	146
7	Relationship between <i>Mycobacterium tuberculosis</i> Genotype and the Clinical Phenotype of Pulmonary and Meningeal Tuberculosis. <i>Journal of Clinical Microbiology</i> , 2008, 46, 1363-1368.	1.8	134
8	The Complete Genome Sequence of <i>Escherichia coli</i> EC958: A High Quality Reference Sequence for the Globally Disseminated Multidrug Resistant <i>E. coli</i> O25b:H4-ST131 Clone. <i>PLoS ONE</i> , 2014, 9, e104400.	1.1	116
9	Emergence of a Globally Dominant IncHI1 Plasmid Type Associated with Multiple Drug Resistant Typhoid. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1245.	1.3	114
10	A comparison of dense transposon insertion libraries in the <i>Salmonella</i> serovars Typhi and Typhimurium. <i>Nucleic Acids Research</i> , 2013, 41, 4549-4564.	6.5	108
11	Identification of IncA/C Plasmid Replication and Maintenance Genes and Development of a Plasmid Multilocus Sequence Typing Scheme. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	106
12	Role of Capsule and O Antigen in the Virulence of Uropathogenic <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e94786.	1.1	98
13	Uropathogenic <i>Escherichia coli</i> Mediated Urinary Tract Infection. <i>Current Drug Targets</i> , 2012, 13, 1386-1399.	1.0	97
14	<i>Salmonella</i> employs multiple mechanisms to subvert the TLR $\alpha$ -inducible zinc $\alpha$ 2-mediated antimicrobial response of human macrophages. <i>FASEB Journal</i> , 2016, 30, 1901-1912.	0.2	91
15	Mutations Prevalent among Rifampin- and Isoniazid-Resistant <i>Mycobacterium tuberculosis</i> Isolates from a Hospital in Vietnam. <i>Journal of Clinical Microbiology</i> , 2006, 44, 2333-2337.	1.8	83
16	Variation in <i>Salmonella enterica</i> Serovar Typhi IncHI1 Plasmids during the Global Spread of Resistant Typhoid Fever. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 716-727.	1.4	81
17	Multidrug-Resistant <i>Salmonella enterica</i> Serovar Paratyphi A Harbors IncHI1 Plasmids Similar to Those Found in Serovar Typhi. <i>Journal of Bacteriology</i> , 2007, 189, 4257-4264.	1.0	80
18	Population dynamics of an <i>Escherichia coli</i> ST131 lineage during recurrent urinary tract infection. <i>Nature Communications</i> , 2019, 10, 3643.	5.8	76

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19	Beijing Genotype of <i>Mycobacterium tuberculosis</i> Is Significantly Associated with Human Immunodeficiency Virus Infection and Multidrug Resistance in Cases of Tuberculous Meningitis. <i>Journal of Clinical Microbiology</i> , 2006, 44, 3934-3939.	1.8	75
20	Strain- and host species-specific inflammasome activation, IL-1 $\beta$ release, and cell death in macrophages infected with uropathogenic <i>Escherichia coli</i> . <i>Mucosal Immunology</i> , 2016, 9, 124-136.	2.7	74
21	<i>Mycobacterium tuberculosis</i> requires glyoxylate shunt and reverse methylcitrate cycle for lactate and pyruvate metabolism. <i>Molecular Microbiology</i> , 2019, 112, 1284-1307.	1.2	74
22	Molecular Analysis of the <i>Acinetobacter baumannii</i> Biofilm-Associated Protein. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6535-6543.	1.4	68
23	Uropathogenic <i>Escherichia coli</i> employs both evasion and resistance to subvert innate immune-mediated zinc toxicity for dissemination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6341-6350.	3.3	60
24	Interplay between tolerance mechanisms to copper and acid stress in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6818-6823.	3.3	57
25	Chemical Synergy between Ionophore PBT2 and Zinc Reverses Antibiotic Resistance. <i>MBio</i> , 2018, 9, .	1.8	56
26	Effective assembly of fimbriae in <i>Escherichia coli</i> depends on the translocation assembly module nanomachine. <i>Nature Microbiology</i> , 2016, 1, 16064.	5.9	52
27	The cytochrome bd-I respiratory oxidase augments survival of multidrug-resistant <i>Escherichia coli</i> during infection. <i>Scientific Reports</i> , 2016, 6, 35285.	1.6	51
28	Molecular Characterization of a Multidrug Resistance IncF Plasmid from the Globally Disseminated <i>Escherichia coli</i> ST131 Clone. <i>PLoS ONE</i> , 2015, 10, e0122369.	1.1	48
29	CRISPR Approaches to Study Uropathogenic <i>Escherichia coli</i> Virulence. <i>Trends in Microbiology</i> , 2017, 25, 729-740.	3.5	46
30	A Novel Protective Vaccine Antigen from the Core <i>Escherichia coli</i> Genome. <i>MSphere</i> , 2016, 1, .	1.3	43
31	Genome-Wide Discovery of Genes Required for Capsule Production by Uropathogenic <i>Escherichia coli</i> . <i>MBio</i> , 2017, 8, .	1.8	43
32	Modifications in the pmrB gene are the primary mechanism for the development of chromosomally encoded resistance to polymyxins in uropathogenic <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2729-2736.	1.3	41
33	IncHI plasmids, a dynamic link between resistance and pathogenicity. <i>Journal of Infection in Developing Countries</i> , 2008, 2, 272-8.	0.5	40
34	Molecular Characterization of the Multidrug Resistant <i>Escherichia coli</i> ST131 Clone. <i>Pathogens</i> , 2015, 4, 422-430.	1.2	39
35	Identification of Genes Important for Growth of Asymptomatic Bacteriuria <i>Escherichia coli</i> in Urine. <i>Infection and Immunity</i> , 2012, 80, 3179-3188.	1.0	38
36	Regulation of hemolysin in uropathogenic <i>Escherichia coli</i> fine-tunes killing of human macrophages. <i>Virulence</i> , 2018, 9, 967-980.	1.8	38

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37	The urinary microbiome in patients with refractory urge incontinence and recurrent urinary tract infection. <i>International Urogynecology Journal</i> , 2018, 29, 1775-1782.	0.7	38
38	Repurposing a neurodegenerative disease drug to treat Gram-negative antibiotic-resistant bacterial sepsis. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	36
39	Conserved features in TamA enable interaction with TamB to drive the activity of the translocation and assembly module. <i>Scientific Reports</i> , 2015, 5, 12905.	1.6	35
40	Discovery of New Genes Involved in Curli Production by a Uropathogenic <i>Escherichia coli</i> Strain from the Highly Virulent O45:K1:H7 Lineage. <i>MBio</i> , 2018, 9, .	1.8	35
41	The role of H4 flagella in <i>Escherichia coli</i> ST131 virulence. <i>Scientific Reports</i> , 2015, 5, 16149.	1.6	34
42	Integrating multiple genomic technologies to investigate an outbreak of carbapenemase-producing <i>Enterobacter hormaechei</i> . <i>Nature Communications</i> , 2020, 11, 466.	5.8	34
43	TraDIS-Xpress: a high-resolution whole-genome assay identifies novel mechanisms of triclosan action and resistance. <i>Genome Research</i> , 2020, 30, 239-249.	2.4	32
44	Copper Ions and Coordination Complexes as Novel Carbapenem Adjuvants. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	31
45	Novel genes associated with enhanced motility of <i>Escherichia coli</i> ST131. <i>PLoS ONE</i> , 2017, 12, e0176290.	1.1	31
46	Lineage-Specific Methyltransferases Define the Methylome of the Globally Disseminated <i>Escherichia coli</i> ST131 Clone. <i>MBio</i> , 2015, 6, e01602-15.	1.8	27
47	MicroPIPE: validating an end-to-end workflow for high-quality complete bacterial genome construction. <i>BMC Genomics</i> , 2021, 22, 474.	1.2	25
48	Characterization of EhaJ, a New Autotransporter Protein from Enterohemorrhagic and Enteropathogenic <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2011, 2, 120.	1.5	24
49	Molecular Analysis of Asymptomatic Bacteriuria <i>Escherichia coli</i> Strain VR50 Reveals Adaptation to the Urinary Tract by Gene Acquisition. <i>Infection and Immunity</i> , 2015, 83, 1749-1764.	1.0	24
50	Comprehensive analysis of IncC plasmid conjugation identifies a crucial role for the transcriptional regulator AcaB. <i>Nature Microbiology</i> , 2020, 5, 1340-1348.	5.9	23
51	Unique structural features of a bacterial autotransporter adhesin suggest mechanisms for interaction with host macromolecules. <i>Nature Communications</i> , 2019, 10, 1967.	5.8	22
52	Comprehensive analysis of type 1 fimbriae regulation in <i>fimB</i> null strains from the multidrug resistant <i>Escherichia coli</i> ST131 clone. <i>Molecular Microbiology</i> , 2016, 101, 1069-1087.	1.2	21
53	The Intimin-Like Protein FdeC Is Regulated by H-NS and Temperature in Enterohemorrhagic <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 7337-7347.	1.4	20
54	Ultra-deep massively parallel sequencing with unique molecular identifier tagging achieves comparable performance to droplet digital PCR for detection and quantification of circulating tumor DNA from lung cancer patients. <i>PLoS ONE</i> , 2019, 14, e0226193.	1.1	18

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55	Evaluation of a Liquid Biopsy Protocol using Ultra-Deep Massive Parallel Sequencing for Detecting and Quantifying Circulation Tumor DNA in Colorectal Cancer Patients. <i>Cancer Investigation</i> , 2020, 38, 85-93.	0.6	18
56	Variation in hemolysin A expression between uropathogenic <i>Escherichia coli</i> isolates determines NLRP3-dependent vs. -independent macrophage cell death and host colonization. <i>FASEB Journal</i> , 2019, 33, 7437-7450.	0.2	16
57	PCR-Restriction Fragment Length Polymorphism for Rapid, Low-Cost Identification of Isoniazid-Resistant <i>Mycobacterium tuberculosis</i> . <i>Journal of Clinical Microbiology</i> , 2007, 45, 1789-1793.	1.8	15
58	Complex Multilevel Control of Hemolysin Production by Uropathogenic <i>Escherichia coli</i> . <i>MBio</i> , 2019, 10, .	1.8	15
59	Liquid biopsy uncovers distinct patterns of DNA methylation and copy number changes in NSCLC patients with different EGFR-TKI resistant mutations. <i>Scientific Reports</i> , 2021, 11, 16436.	1.6	15
60	Third-generation cephalosporin resistance conferred by a chromosomally encoded <i>bla</i> CMY-23 gene in the <i>Escherichia coli</i> ST131 reference strain EC958. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 1969-1972.	1.3	14
61	Plasmid-Mediated Ciprofloxacin Resistance Imparts a Selective Advantage on <i>Escherichia coli</i> ST131. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0214621.	1.4	14
62	Frontline Science: LPS-inducible SLC30A1 drives human macrophage-mediated zinc toxicity against intracellular <i>Escherichia coli</i> . <i>Journal of Leukocyte Biology</i> , 2021, 109, 287-297.	1.5	13
63	Rescuing Tetracycline Class Antibiotics for the Treatment of Multidrug-Resistant <i>Acinetobacter baumannii</i> Pulmonary Infection. <i>MBio</i> , 2022, 13, e0351721.	1.8	11
64	Modified horseshoe crab peptides target and kill bacteria inside host cells. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	11
65	Establishing and validating noninvasive prenatal testing procedure for fetal aneuploidies in Vietnam. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 4009-4015.	0.7	10
66	Differential Afa/Dr Fimbriae Expression in the Multidrug-Resistant <i>Escherichia coli</i> ST131 Clone. <i>MBio</i> , 2022, 13, e0351921.	1.8	9
67	Gut-bladder axis in recurrent UTI. <i>Nature Microbiology</i> , 2022, 7, 601-602.	5.9	9
68	Genetic profiling of Vietnamese population from large-scale genomic analysis of non-invasive prenatal testing data. <i>Scientific Reports</i> , 2020, 10, 19142.	1.6	8
69	Uncovering novel susceptibility targets to enhance the efficacy of third-generation cephalosporins against ESBL-producing uropathogenic <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 1415-1423.	1.3	7
70	Ultra-Deep Sequencing of Plasma-Circulating DNA for the Detection of Tumor-Derived Mutations in Patients with Nonmetastatic Colorectal Cancer. <i>Cancer Investigation</i> , 2022, 40, 354-365.	0.6	6
71	Ucl fimbriae regulation and glycan receptor specificity contribute to gut colonisation by extra-intestinal pathogenic <i>Escherichia coli</i> . <i>PLoS Pathogens</i> , 2022, 18, e1010582.	2.1	6
72	Bioinformatic and Molecular Analysis of Inverse Autotransporters from <i>Escherichia coli</i> . <i>MSphere</i> , 2019, 4, .	1.3	5

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73	Detection of a heterozygous germline APC mutation in a three-generation family with familial adenomatous polyposis using targeted massive parallel sequencing in Vietnam. <i>BMC Medical Genetics</i> , 2018, 19, 188.	2.1	4
74	Reducing false positive rate of fetal monosomy X in non-invasive prenatal testing using a combined algorithm to detect maternal mosaic monosomy X. <i>Prenatal Diagnosis</i> , 2019, 39, 324-327.	1.1	4
75	Pathogenic Variant Profile of Hereditary Cancer Syndromes in a Vietnamese Cohort. <i>Frontiers in Oncology</i> , 2021, 11, 789659.	1.3	4
76	Genetic landscape of recessive diseases in the Vietnamese population from large-scale clinical exome sequencing. <i>Human Mutation</i> , 2021, 42, 1229-1238.	1.1	3
77	Massively parallel sequencing uncovered disease-associated variant spectra of glucose-6-phosphate dehydrogenase deficiency, phenylketonuria and galactosemia in Vietnamese pregnant women. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2022, 10, e1959.	0.6	3
78	Ultra-Deep Massive Parallel Sequencing of Plasma Cell-Free DNA Enables Large-Scale Profiling of Driver Mutations in Vietnamese Patients With Advanced Non-Small Cell Lung Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 1351.	1.3	2
79	Characterization of DtrJ as an IncC plasmid conjugative DNA transfer component. <i>Molecular Microbiology</i> , 2021, 116, 154-167.	1.2	2
80	MAS-PCR: A Quick Cheap Detection Test for Isoniazid Resistance in Mycobacterium tuberculosis. <i>International Journal of Infectious Diseases</i> , 2008, 12, e319.	1.5	0
81	Global gene expression profiling of a virulent Klebsiella pneumoniae strain during pulmonary infection. <i>Access Microbiology</i> , 2019, 1, .	0.2	0
82	Mutation spectrum of major cancer driver genes in Vietnamese NSCLC patients.. <i>Journal of Global Oncology</i> , 2019, 5, 54-54.	0.5	0
83	Plasma circulating tumor DNA-based genetic profiling of lung cancer patients in Vietnam using ultra-deep massive parallel sequencing with unique identifier tagging.. <i>Journal of Global Oncology</i> , 2019, 5, 58-58.	0.5	0