Petros C Karakousis

List of Publications by Year
in descending order

134 papers	5,410 citations	71102 41 h-index	98798 67 g-index
143 all docs	143 docs citations	143 times ranked	6481 citing authors

#	Article	IF	Citations
1	Dormancy Phenotype Displayed by Extracellular Mycobacterium tuberculosis within Artificial Granulomas in Mice. Journal of Experimental Medicine, 2004, 200, 647-657.	8.5	246
2	Latent Tuberculosis Infection: Myths, Models, and Molecular Mechanisms. Microbiology and Molecular Biology Reviews, 2014, 78, 343-371.	6.6	199
3	Mycobacterium avium complex in patients with HIV infection in the era of highly active antiretroviral therapy. Lancet Infectious Diseases, The, 2004, 4, 557-565.	9.1	190
4	Exosomes Isolated from Mycobacteria-Infected Mice or Cultured Macrophages Can Recruit and Activate Immune Cells In Vitro and In Vivo. Journal of Immunology, 2012, 189, 777-785.	0.8	156
5	Tuberculosis-associated haemophagocytic syndrome. Lancet Infectious Diseases, The, 2006, 6, 447-454.	9.1	154
6	Role of the dosR - dosS Two-Component Regulatory System in Mycobacterium tuberculosis Virulence in Three Animal Models. Infection and Immunity, 2009, 77, 1230-1237.	2.2	150
7	Dose-Ranging Comparison of Rifampin and Rifapentine in Two Pathologically Distinct Murine Models of Tuberculosis. Antimicrobial Agents and Chemotherapy, 2012, 56, 4331-4340.	3.2	142
8	Phosphate Depletion: A Novel Trigger forMycobacterium tuberculosisPersistence. Journal of Infectious Diseases, 2009, 200, 1126-1135.	4.0	136
9	Mycobacterium tuberculosiscell envelope lipids and the host immune response. Cellular Microbiology, 2004, 6, 105-116.	2.1	127
10	Development of a Novel Lead that Targets M.Âtuberculosis Polyketide Synthase 13. Cell, 2017, 170, 249-259.e25.	28.9	124
11	Factors associated with disease severity and mortality among patients with COVID-19: A systematic review and meta-analysis. PLoS ONE, 2020, 15, e0241541.	2.5	124
12	Metformin Use Reverses the Increased Mortality Associated With Diabetes Mellitus During Tuberculosis Treatment. Clinical Infectious Diseases, 2018, 66, 198-205.	5.8	115
13	Biphasic Kill Curve of Isoniazid Reveals the Presence of Drugâ€Tolerant, Not Drugâ€Resistant,Mycobacterium tuberculosisin the Guinea Pig. Journal of Infectious Diseases, 2009, 200, 1136-1143.	4.0	103
14	Altered expression of isoniazid-regulated genes in drug-treated dormant Mycobacterium tuberculosis. Journal of Antimicrobial Chemotherapy, 2008, 61, 323-331.	3.0	95
15	Simvastatin increases the in vivo activity of the first-line tuberculosis regimen. Journal of Antimicrobial Chemotherapy, 2014, 69, 2453-2457.	3.0	93
16	Inhibiting the stringent response blocks Mycobacterium tuberculosis entry into quiescence and reduces persistence. Science Advances, 2019, 5, eaav2104.	10.3	93
17	The Stringent Response Is Required for Full Virulence ofMycobacterium tuberculosisin Guinea Pigs. Journal of Infectious Diseases, 2010, 202, 1397-1404.	4.0	90
18	Roles of SigB and SigF in theMycobacterium tuberculosisSigma Factor Network. Journal of Bacteriology, 2008, 190, 699-707.	2.2	87

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19	Statin adjunctive therapy shortens the duration of TB treatment in mice. Journal of Antimicrobial Chemotherapy, 2016, 71, 1570-1577.	3.0	87
20	The Global Health Security Index is not predictive of coronavirus pandemic responses among Organization for Economic Cooperation and Development countries. PLoS ONE, 2020, 15, e0239398.	2.5	86
21	Modes of transmission of SARS-CoV-2 and evidence for preventive behavioral interventions. BMC Infectious Diseases, 2021, 21, 496.	2.9	85
22	Lesion-Specific Immune Response in Granulomas of Patients with Pulmonary Tuberculosis: A Pilot Study. PLoS ONE, 2015, 10, e0132249.	2.5	83
23	Deficiency of the Novel Exopolyphosphatase Rv1026/PPX2 Leads to Metabolic Downshift and Altered Cell Wall Permeability in Mycobacterium tuberculosis. MBio, 2015, 6, e02428.	4.1	83
24	Upregulation of the Phthiocerol Dimycocerosate Biosynthetic Pathway by Rifampin-Resistant,rpoBMutant Mycobacterium tuberculosis. Journal of Bacteriology, 2012, 194, 6441-6452.	2.2	80
25	Application of ¹H NMR Spectroscopy-Based Metabolomics to Sera of Tuberculosis Patients. Journal of Proteome Research, 2013, 12, 4642-4649.	3.7	79
26	Metronidazole Lacks Activity againstMycobacterium tuberculosisin an In Vivo Hypoxic Granuloma Model of Latency. Journal of Infectious Diseases, 2008, 198, 275-283.	4.0	78
27	The Role of the Novel Exopolyphosphatase MT0516 in Mycobacterium tuberculosis Drug Tolerance and Persistence. PLoS ONE, 2011, 6, e28076.	2.5	71
28	Host-Mediated Bioactivation of Pyrazinamide: Implications for Efficacy, Resistance, and Therapeutic Alternatives. ACS Infectious Diseases, 2015, 1, 203-214.	3.8	71
29	Sex Differences in Lung Imaging and SARS-CoV-2 Antibody Responses in a COVID-19 Golden Syrian Hamster Model. MBio, 2021, 12, e0097421.	4.1	69
30	Chronic Q Fever in the United States. Journal of Clinical Microbiology, 2006, 44, 2283-2287.	3.9	66
31	Interferon-Î³ Release Assays in the Diagnosis of Tuberculous Uveitis. American Journal of Ophthalmology, 2008, 146, 486-488.	3.3	66
32	The Polyphosphate Kinase Gene ppk2 Is Required for Mycobacterium tuberculosis Inorganic Polyphosphate Regulation and Virulence. MBio, 2013, 4, e00039-13.	4.1	64
33	Mycobacterium tuberculosis SigF Regulates Genes Encoding Cell Wall-Associated Proteins and Directly Regulates the Transcriptional Regulatory Gene phoY1. Journal of Bacteriology, 2007, 189, 4234-4242.	2.2	58
34	Dose-Dependent Activity of Pyrazinamide in Animal Models of Intracellular and Extracellular Tuberculosis Infections. Antimicrobial Agents and Chemotherapy, 2011, 55, 1527-1532.	3.2	54
35	Adjunctive Host-Directed Therapy With Statins Improves Tuberculosis-Related Outcomes in Mice. Journal of Infectious Diseases, 2020, 221, 1079-1087.	4.0	51
36	Characterization of a Novel Necrotic Granuloma Model of Latent Tuberculosis Infection and Reactivation in Mice. American Journal of Pathology, 2014, 184, 2045-2055.	3.8	50

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37	Comparison of the 'Denver regimen' against acute tuberculosis in the mouse and guinea pig. Journal of Antimicrobial Chemotherapy, 2010, 65, 729-734.	3.0	49
38	Intraocular Tuberculosis. Ocular Immunology and Inflammation, 2010, 18, 281-291.	1.8	48
39	Local Ischemia and Increased Expression of Vascular Endothelial Growth Factor Following Ocular Dissemination of Mycobacterium tuberculosis. PLoS ONE, 2011, 6, e28383.	2.5	48
40	Vaccination with Recombinant Mycobacterium tuberculosis PknD Attenuates Bacterial Dissemination to the Brain in Guinea Pigs. PLoS ONE, 2013, 8, e66310.	2.5	45
41	Stability and Viability of SARS-CoV-2. New England Journal of Medicine, 2020, 382, 1962-1966.	27.0	45
42	Accelerated Detection ofMycobacterium tuberculosisGenes Essential for Bacterial Survival in Guinea Pigs, Compared with Mice. Journal of Infectious Diseases, 2007, 195, 1634-1642.	4.0	43
43	Experimental Ocular Tuberculosis in Guinea Pigs. JAMA Ophthalmology, 2009, 127, 1162.	2.4	43
44	Future target-based drug discovery for tuberculosis?. Tuberculosis, 2014, 94, 551-556.	1.9	43
45	Multidrug-Resistant Tuberculosis in Panama Is Driven by Clonal Expansion of a Multidrug-Resistant Mycobacterium tuberculosis Strain Related to the KZN Extensively Drug-Resistant M. tuberculosis Strain from South Africa. Journal of Clinical Microbiology, 2013, 51, 3277-3285.	3.9	41
46	Stringent Response Factors PPX1 and PPK2 Play an Important Role in Mycobacterium tuberculosis Metabolism, Biofilm Formation, and Sensitivity to Isoniazid In Vivo. Antimicrobial Agents and Chemotherapy, 2016, 60, 6460-6470.	3.2	41
47	Molecular immunologic correlates of spontaneous latency in a rabbit model of pulmonary tuberculosis. Cell Communication and Signaling, 2013, 11, 16.	6.5	37
48	Differential expression of miRNAs and their relation to active tuberculosis. Tuberculosis, 2015, 95, 395-403.	1.9	37
49	Mycobacterial Protein Tyrosine Phosphatases A and B Inhibitors Augment the Bactericidal Activity of the Standard Anti-tuberculosis Regimen. ACS Infectious Diseases, 2016, 2, 231-239.	3.8	37
50	Reduced Emergence of Isoniazid Resistance with Concurrent Use of Thioridazine against Acute Murine Tuberculosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 4048-4053.	3.2	35
51	Rifapentine Is Not More Active than Rifampin against Chronic Tuberculosis in Guinea Pigs. Antimicrobial Agents and Chemotherapy, 2012, 56, 3726-3731.	3.2	34
52	In vitro and in vivo fitness costs associated with Mycobacterium tuberculosis RpoB mutation H526D. Future Microbiology, 2017, 12, 753-765.	2.0	34
53	Waterhouse-Friderichsen Syndrome After Infection With Group A Streptococcus. Mayo Clinic Proceedings, 2001, 76, 1167-1170.	3.0	33
54	Metformin Adjunctive Therapy Does Not Improve the Sterilizing Activity of the First-Line Antitubercular Regimen in Mice. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	33

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55	Remembering the Host in Tuberculosis Drug Development. Journal of Infectious Diseases, 2019, 219, 1518-1524.	4.0	33
56	Genome analysis of Mycobacterium avium subspecies hominissuis strain 109. Scientific Data, 2018, 5, 180277.	5.3	33
57	Statins use and COVID-19 outcomes in hospitalized patients. PLoS ONE, 2021, 16, e0256899.	2.5	31
58	Potent Rifamycin-Sparing Regimen Cures Guinea Pig Tuberculosis as Rapidly as the Standard Regimen. Antimicrobial Agents and Chemotherapy, 2013, 57, 3910-3916.	3.2	29
59	Altered Mycobacterium tuberculosis Cell Wall Metabolism and Physiology Associated With RpoB Mutation H526D. Frontiers in Microbiology, 2018, 9, 494.	3.5	28
60	New Patentable Use of an Old Neuroleptic Compound Thioridazine to Combat Tuberculosis: A Gene Regulation Perspective. Recent Patents on Anti-infective Drug Discovery, 2011, 6, 128-138.	0.8	27
61	senX3-independent contribution of regX3 to Mycobacterium tuberculosis virulence. BMC Microbiology, 2014, 14, 265.	3.3	25
62	Metabolomics specificity of tuberculosis plasma revealed by 1H NMR spectroscopy. Tuberculosis, 2015, 95, 294-302.	1.9	25
63	The anti-tubercular activity of simvastatin is mediated by cholesterol-driven autophagy via the AMPK-mTORC1-TFEB axis. Journal of Lipid Research, 2020, 61, 1617-1628.	4.2	24
64	Integration of metabolomics and transcriptomics reveals novel biomarkers in the blood for tuberculosis diagnosis in children. Scientific Reports, 2020, 10, 19527.	3.3	23
65	Use of Multiplex Allele-Specific Polymerase Chain Reaction (MAS-PCR) to Detect Multidrug-Resistant Tuberculosis in Panama. PLoS ONE, 2012, 7, e40456.	2.5	23
66	Unprecedented in Vitro Antitubercular Activitiy of Manganese(II) Complexes Containing 1,10-Phenanthroline and Dicarboxylate Ligands: Increased Activity, Superior Selectivity, and Lower Toxicity in Comparison to Their Copper(II) Analogs. Frontiers in Microbiology, 2018, 9, 1432.	3.5	22
67	The Global Health Security Index is not predictive of vaccine rollout responses among OECD countries. International Journal of Infectious Diseases, 2021, 113, 7-11.	3.3	22
68	Mycobacterium tuberculosis Complex Enhances Susceptibility of CD4 T Cells to HIV through a TLR2-Mediated Pathway. PLoS ONE, 2012, 7, e41093.	2.5	22
69	Identification of a Transcription Factor That Regulates Host Cell Exit and Virulence of Mycobacterium tuberculosis. PLoS Pathogens, 2016, 12, e1005652.	4.7	22
70	Progression and Resolution of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection in Golden Syrian Hamsters. American Journal of Pathology, 2022, 192, 195-207.	3.8	22
71	Effectiveness of tuberculosis chemotherapy correlates with resistance to Mycobacterium tuberculosis infection in animal models. Journal of Antimicrobial Chemotherapy, 2011, 66, 1560-1566.	3.0	21
72	Systems Biology-Based Identification of Mycobacterium tuberculosis Persistence Genes in Mouse Lungs. MBio, 2014, 5, .	4.1	21

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73	Sterilizing Activity of Thioridazine in Combination with the First-Line Regimen against Acute Murine Tuberculosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 5567-5569.	3.2	20
74	Association of Lipid Levels With COVID-19 Infection, Disease Severity and Mortality: A Systematic Review and Meta-Analysis. Frontiers in Cardiovascular Medicine, 2022, 9, 862999.	2.4	19
75	Thioridazine lacks bactericidal activity in an animal model of extracellular tuberculosis. Journal of Antimicrobial Chemotherapy, 2013, 68, 1327-1330.	3.0	18
76	Differential regulation of the two-component regulatory system senX3-regX3 in Mycobacterium tuberculosis. Microbiology (United Kingdom), 2014, 160, 1125-1133.	1.8	18
77	Male Sex Is Associated With Worse Microbiological and Clinical Outcomes Following Tuberculosis Treatment: A Retrospective Cohort Study, a Systematic Review of the Literature, and Meta-analysis. Clinical Infectious Diseases, 2021, 73, 1580-1588.	5.8	18
78	Deficiency of Double-Strand DNA Break Repair Does Not Impair Mycobacterium tuberculosis Virulence in Multiple Animal Models of Infection. Infection and Immunity, 2014, 82, 3177-3185.	2.2	17
79	Mechanisms of Antibiotic Tolerance in Mycobacterium avium Complex: Lessons From Related Mycobacteria. Frontiers in Microbiology, 2020, 11, 573983.	3.5	16
80	The Impact of Mouse Passaging of Mycobacterium tuberculosis Strains prior to Virulence Testing in the Mouse and Guinea Pig Aerosol Models. PLoS ONE, 2010, 5, e10289.	2.5	15
81	Strain-dependent CNS dissemination in guinea pigs after Mycobacterium tuberculosis aerosol challenge. Tuberculosis, 2011, 91, 386-389.	1.9	15
82	PA-824 is as effective as isoniazid against latent tuberculosis infection in C3HeB/FeJ mice. International Journal of Antimicrobial Agents, 2014, 44, 564-566.	2.5	15
83	The potent bactericidal activity of streptomycin in the guinea pig model of tuberculosis ceases due to the presence of persisters. Journal of Antimicrobial Chemotherapy, 2010, 65, 2172-2175.	3.0	14
84	Transcriptional Approach for Decoding the Mechanism of rpoC Compensatory Mutations for the Fitness Cost in Rifampicin-Resistant Mycobacterium tuberculosis. Frontiers in Microbiology, 2018, 9, 2895.	3.5	14
85	Mechanisms of Action and Resistance of Antimycobacterial Agents. , 2009, , 271-291.		14
86	U.S. medical resident familiarity with national tuberculosis guidelines. BMC Infectious Diseases, 2007, 7, 89.	2.9	13
87	Preliminary Pharmacokinetic Study of Repeated Doses of Rifampin and Rifapentine in Guinea Pigs. Antimicrobial Agents and Chemotherapy, 2013, 57, 1535-1537.	3.2	13
88	Identifying the essential genes of Mycobacterium avium subsp. hominissuis with Tn-Seq using a rank-based filter procedure. Scientific Reports, 2020, 10, 1095.	3.3	13
89	Treatment with an immature dendritic cell-targeting vaccine supplemented with IFN-Î± and an inhibitor of DNA methylation markedly enhances survival in a murine melanoma model. Cancer Immunology, Immunotherapy, 2020, 69, 569-580.	4.2	13
90	Key Macrophage Responses to Infection With Mycobacterium tuberculosis Are Co-Regulated by microRNAs and DNA Methylation. Frontiers in Immunology, 2021, 12, 685237.	4.8	13

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91	Integrative Multi-Omics Reveals Serum Markers of Tuberculosis in Advanced HIV. Frontiers in Immunology, 2021, 12, 676980.	4.8	12
92	The New Frontier of Host-Directed Therapies for Mycobacterium avium Complex. Frontiers in Immunology, 2020, 11, 623119.	4.8	12
93	Rv1894c Is a Novel Hypoxia-Induced Nitronate Monooxygenase Required for Mycobacterium tuberculosis Virulence. Journal of Infectious Diseases, 2013, 207, 1525-1534.	4.0	11
94	A tuberculosis ontology for host systems biology. Tuberculosis, 2015, 95, 570-574.	1.9	11
95	Albumin fusion with granulocyte-macrophage colony-stimulating factor acts as an immunotherapy against chronic tuberculosis. Cellular and Molecular Immunology, 2021, 18, 2393-2401.	10.5	11
96	Higher Serum Cholesterol Levels Are Associated With Reduced Systemic Inflammation and Mortality During Tuberculosis Treatment Independent of Body Mass Index. Frontiers in Cardiovascular Medicine, 2021, 8, 696517.	2.4	11
97	The association of atherosclerotic cardiovascular disease and statin use with inflammation and treatment outcomes in tuberculosis. Scientific Reports, 2021, 11, 15283.	3.3	11
98	HDL cholesterol levels and susceptibility to COVID-19. EBioMedicine, 2022, 82, 104166.	6.1	11
99	Characterization of a Novel Heat Shock Protein (Hsp22.5) Involved in the Pathogenesis of Mycobacterium tuberculosis. Journal of Bacteriology, 2011, 193, 3497-3505.	2.2	10
100	Empirical Antifungal Therapy in Critically Ill Patients With Sepsis. JAMA - Journal of the American Medical Association, 2016, 316, 1549.	7.4	10
101	Gene Enrichment Analysis Reveals Major Regulators of Mycobacterium tuberculosis Gene Expression in Two Models of Antibiotic Tolerance. Frontiers in Microbiology, 2018, 9, 610.	3.5	10
102	Mycobacterium tuberculosis Infection Drives Mitochondria-Biased Dysregulation of Host Transfer RNAâ€“Derived Fragments. Journal of Infectious Diseases, 2021, 223, 1796-1805.	4.0	10
103	Tuberculosis chemotherapy: Present situation, possible solutions, and progress towards a TB-free world. Indian Journal of Medical Microbiology, 2012, 30, 261-263.	0.8	9
104	Thioridazine for treatment of tuberculosis: Promises and pitfalls. Tuberculosis, 2014, 94, 708-711.	1.9	9
105	Small Animal Models for Human Immunodeficiency Virus (HIV), Hepatitis B, and Tuberculosis: Proceedings of an NIAID Workshop. Current HIV Research, 2020, 18, 19-28.	0.5	9
106	Targeting the Mycobacterium tuberculosis Stringent Response as a Strategy for Shortening Tuberculosis Treatment. Frontiers in Microbiology, 2021, 12, 744167.	3.5	9
107	First Evaluation of GenoType MTBDR plus 2.0 Performed Directly on Respiratory Specimens in Central America. Journal of Clinical Microbiology, 2016, 54, 2498-2502.	3.9	8
108	Intranasal Immunization with DnaK Protein Induces Protective Mucosal Immunity against Tuberculosis in CD4-Depleted Mice. Frontiers in Cellular and Infection Microbiology, 2018, 8, 31.	3.9	8

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109	The Impact of Hypertension and Use of Calcium Channel Blockers on Tuberculosis Treatment Outcomes. Clinical Infectious Diseases, 2021, 73, e3409-e3418.	5.8	8
110	TLR2-Modulating Lipoproteins of the Mycobacterium tuberculosis Complex Enhance the HIV Infectivity of CD4+ T Cells. PLoS ONE, 2016, 11, e0147192.	2.5	7
111	Antibiotic Treatment Shapes the Antigenic Environment During Chronic TB Infection, Offering Novel Targets for Therapeutic Vaccination. Frontiers in Immunology, 2020, 11, 680.	4.8	7
112	Can the duration of tuberculosis treatment be shortened with higher dosages of rifampicin?. Frontiers in Microbiology, 2015, 6, 1117.	3.5	6
113	Postoperative Pneumococcal Cellulitis in Systemic Lupus Erythematosus. Scandinavian Journal of Infectious Diseases, 2003, 35, 141-143.	1.5	5
114	Paraplegia caused by invasive spinal aspergillosis. Neurology, 2007, 68, 158-158.	1.1	4
115	Genetic Determinants of Intrinsic Antibiotic Tolerance in Mycobacterium avium. Microbiology Spectrum, 2021, 9, e0024621.	3.0	4
116	Ulcerating subcutaneous nodules and advanced renal failure: is it time for a new liver?. Nephrology Dialysis Transplantation, 2001, 16, 2095-2096.	0.7	3
117	Reply to â€œContradictory Results with High-Dosage Rifamycin in Mice and Humansâ€• Antimicrobial Agents and Chemotherapy, 2013, 57, 1104-1105.	3.2	3
118	Pleuropulmonary Kaposi Sarcoma in the Setting of Immune Reactivation. Journal of Pulmonary & Respiratory Medicine, 2016, 6, .	0.1	3
119	Statins as Host-Directed Therapy for Tuberculosis. , 2021, , 109-119.		3
120	The Kynurenine/Tryptophan Ratio Is a Sensitive Biomarker for the Diagnosis of Pediatric Tuberculosis Among Indian Children. Frontiers in Immunology, 2021, 12, 774043.	4.8	3
121	Mechanisms of Action and Resistance of the Antimycobacterial Agents. , 2017, , 359-383.		2
122	The role of conjunctival biopsy in the diagnosis of Wegener's granulomatosis: a case report. Canadian Journal of Ophthalmology, 2002, 37, 179-181.	0.7	1
123	Non-tuberculous mycobacteria in HIV-infected patients: geographic, behavioural, and immunological factors â€“ Authors' reply. Lancet Infectious Diseases, The, 2005, 5, 396.	9.1	1
124	Reply to Hu et al: Could there be detrimental effects of statin adjunctive TB therapy on immune responses?. Journal of Infectious Diseases, 2020, 222, 336-337.	4.0	1
125	Reply to Lai et al. Journal of Infectious Diseases, 2021, 224, 1269-1270.	4.0	1
126	LB19. Intramuscular therapeutic immunization targeting RelMtb/MIP-3 induces immune signatures associated with better TB control in vivo compared to. Open Forum Infectious Diseases, 2021, 8, S815-S815.	0.9	0

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127	Title is missing!. , 2020, 15, e0241541.		0
128	Title is missing!. , 2020, 15, e0241541.		0
129	Title is missing!. , 2020, 15, e0241541.		0
130	Title is missing!. , 2020, 15, e0241541.		0
131	Title is missing!. , 2020, 15, e0239398.		0
132	Title is missing!. , 2020, 15, e0239398.		0
133	Title is missing!. , 2020, 15, e0239398.		0
134	Title is missing!. , 2020, 15, e0239398.		0