Olivier Neyrolles

List of Publications by Year
in descending order

133 papers	9,056 citations	36303 51 h-index	46799 89 g-index
151 all docs	151 docs citations	151 times ranked	10942 citing authors

#	Article	IF	Citations
1	DC-SIGN Is the Major <i>Mycobacterium tuberculosis</i> Receptor on Human Dendritic Cells. Journal of Experimental Medicine, 2003, 197, 121-127.	8.5	587
2	Evolutionary Dynamics of Human Toll-Like Receptors and Their Different Contributions to Host Defense. PLoS Genetics, 2009, 5, e1000562.	3.5	341
3	Sexual Inequality in Tuberculosis. PLoS Medicine, 2009, 6, e1000199.	8.4	312
4	Mycobacterial P1-Type ATPases Mediate Resistance to Zinc Poisoning in Human Macrophages. Cell Host and Microbe, 2011, 10, 248-259.	11.0	304
5	The role of the lung microbiota and the gut-lung axis in respiratory infectious diseases. Cellular Microbiology, 2018, 20, e12966.	2.1	287
6	Dissection of ESAT-6 System 1 of Mycobacterium tuberculosis and Impact on Immunogenicity and Virulence. Infection and Immunity, 2006, 74, 88-98.	2.2	279
7	Is Adipose Tissue a Place for Mycobacterium tuberculosis Persistence?. PLoS ONE, 2006, 1, e43.	2.5	261
8	The Cell Surface Receptor DC-SIGN Discriminates betweenMycobacterium Species through Selective Recognition of the Mannose Caps on Lipoarabinomannan. Journal of Biological Chemistry, 2003, 278, 5513-5516.	3.4	228
9	Mycobacteria, metals, and the macrophage. Immunological Reviews, 2015, 264, 249-263.	6.0	178
10	Probing Host Pathogen Cross-Talk by Transcriptional Profiling of Both Mycobacterium tuberculosis and Infected Human Dendritic Cells and Macrophages. PLoS ONE, 2008, 3, e1403.	2.5	172
11	Production of phthiocerol dimycocerosates protects Mycobacterium tuberculosis from the cidal activity of reactive nitrogen intermediates produced by macrophages and modulates the early immune response to infection. Cellular Microbiology, 2004, 6, 277-287.	2.1	169
12	Promoter Variation in the DC-SIGNâ€“Encoding Gene CD209 Is Associated with Tuberculosis. PLoS Medicine, 2006, 3, e20.	8.4	166
13	High Content Phenotypic Cell-Based Visual Screen Identifies Mycobacterium tuberculosis Acyltrehalose-Containing Glycolipids Involved in Phagosome Remodeling. PLoS Pathogens, 2010, 6, e1001100.	4.7	158
14	Constrained Intracellular Survival of<i>Mycobacterium tuberculosis</i>in Human Dendritic Cells. Journal of Immunology, 2003, 170, 1939-1948.	0.8	155
15	DC-SIGN Induction in Alveolar Macrophages Defines Privileged Target Host Cells for Mycobacteria in Patients with Tuberculosis. PLoS Medicine, 2005, 2, e381.	8.4	153
16	Mycobacterium tuberculosis Exploits Asparagine to Assimilate Nitrogen and Resist Acid Stress during Infection. PLoS Pathogens, 2014, 10, e1003928.	4.7	148
17	Contribution of Horizontally Acquired Genomic Islands to the Evolution of the Tubercle Bacilli. Molecular Biology and Evolution, 2007, 24, 1861-1871.	8.9	142
18	The C-type Lectin Receptors Dectin-1, MR, and SIGNR3 Contribute Both Positively and Negatively to the Macrophage Response to Leishmania infantum. Immunity, 2013, 38, 1038-1049.	14.3	134

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19	Capsular glucan and intracellular glycogen of <i>Mycobacterium tuberculosis</i>: biosynthesis and impact on the persistence in mice. Molecular Microbiology, 2008, 70, 762-774.	2.5	133
20	Tuberculosis is associated with expansion of a motile, permissive and immunomodulatory CD16+ monocyte population via the IL-10/STAT3 axis. Cell Research, 2015, 25, 1333-1351.	12.0	127
21	LppX is a lipoprotein required for the translocation of phthiocerol dimycocerosates to the surface of Mycobacterium tuberculosis. EMBO Journal, 2006, 25, 1436-1444.	7.8	126
22	Comparative miRNA Expression Profiles in Individuals with Latent and Active Tuberculosis. PLoS ONE, 2011, 6, e25832.	2.5	124
23	Nitrogen metabolism in Mycobacterium tuberculosis physiology and virulence. Nature Reviews Microbiology, 2014, 12, 729-737.	28.6	123
24	Macrophage polarization: convergence point targeted by Mycobacterium tuberculosis and HIV. Frontiers in Immunology, 2011, 2, 43.	4.8	115
25	Recent advances in deciphering the contribution of Mycobacterium tuberculosis lipids to pathogenesis. Tuberculosis, 2011, 91, 187-195.	1.9	112
26	Metallobiology of hostâ€“pathogen interactions: an intoxicating new insight. Trends in Microbiology, 2012, 20, 106-112.	7.7	107
27	A murine DC-SIGN homologue contributes to early host defense against <i>Mycobacterium tuberculosis</i>. Journal of Experimental Medicine, 2009, 206, 2205-2220.	8.5	98
28	Mycobacteria and the Intraphagosomal Environment: Take It With a Pinch of Salt(s)!. Traffic, 2012, 13, 1042-1052.	2.7	97
29	Deciphering the molecular bases of Mycobacterium tuberculosis binding to the lectin DC-SIGN reveals an underestimated complexity. Biochemical Journal, 2005, 392, 615-624.	3.7	96
30	Horizontal Transfer of a Virulence Operon to the Ancestor of Mycobacterium tuberculosis. Molecular Biology and Evolution, 2006, 23, 1129-1135.	8.9	95
31	Mycobacterium tuberculosis nitrogen assimilation and host colonization require aspartate. Nature Chemical Biology, 2013, 9, 674-676.	8.0	95
32	An efficient siRNAâ€mediated gene silencing in primary human monocytes, dendritic cells and macrophages. Immunology and Cell Biology, 2014, 92, 699-708.	2.3	94
33	The Host Microbiota Contributes to Early Protection Against Lung Colonization by Mycobacterium tuberculosis. Frontiers in Immunology, 2018, 9, 2656.	4.8	94
34	Lipoprotein Access to MHC Class I Presentation During Infection of Murine Macrophages with Live Mycobacteria. Journal of Immunology, 2001, 166, 447-457.	0.8	93
35	Role of Mycobacterium tuberculosisCopper-Zinc Superoxide Dismutase. Infection and Immunity, 2001, 69, 529-533.	2.2	93
36	Progress and challenges in TB vaccine development. F1000Research, 2018, 7, 199.	1.6	93

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37	<i>Mycobacterium tuberculosis</i>inhibits human innate immune responses via the production of TLR2 antagonist glycolipids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11205-11210.	7.1	91
38	Innate Immune Response to Mycobacterium tuberculosis Beijing and Other Genotypes. PLoS ONE, 2010, 5, e13594.	2.5	86
39	The Heritage of Pathogen Pressures and Ancient Demography in the Human Innate-Immunity CD209/CD209L Region. American Journal of Human Genetics, 2005, 77, 869-886.	6.2	81
40	Actin-binding protein regulation by microRNAs as a novel microbial strategy to modulate phagocytosis by host cells: the case of N-Wasp and miR-142-3p. Frontiers in Cellular and Infection Microbiology, 2013, 3, 19.	3.9	76
41	Tuberculosis Exacerbates HIV-1 Infection through IL-10/STAT3-Dependent Tunneling Nanotube Formation in Macrophages. Cell Reports, 2019, 26, 3586-3599.e7.	6.4	76
42	Role of Cathepsins in Mycobacterium tuberculosis Survival in Human Macrophages. Scientific Reports, 2016, 6, 32247.	3.3	75
43	Multiple deletions in the polyketide synthase gene repertoire of<i>Mycobacterium tuberculosis</i>reveal functional overlap of cell envelope lipids in host-pathogen interactions. Cellular Microbiology, 2014, 16, 195-213.	2.1	71
44	Signature-Tagged Transposon Mutagenesis Identifies Novel Mycobacterium tuberculosis Genes Involved in the Parasitism of Human Macrophages. Infection and Immunity, 2007, 75, 504-507.	2.2	69
45	ClgR regulation of chaperone and protease systems is essential for Mycobacterium tuberculosis parasitism of the macrophage. Microbiology (United Kingdom), 2010, 156, 3445-3455.	1.8	69
46	C-type lectin receptor DCIR modulates immunity to tuberculosis by sustaining type I interferon signaling in dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E540-E549.	7.1	67
47	Deficiency in mycolipenate- and mycosanoate-derived acyltrehaloses enhances early interactions of Mycobacterium tuberculosis with host cells. Cellular Microbiology, 2003, 5, 405-415.	2.1	65
48	B Cells Producing Type I IFN Modulate Macrophage Polarization in Tuberculosis. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 801-813.	5.6	63
49	Human NLRP1 is a sensor of pathogenic coronavirus 3CL proteases in lung epithelial cells. Molecular Cell, 2022, 82, 2385-2400.e9.	9.7	61
50	A genomic portrait of the genetic architecture and regulatory impact of microRNA expression in response to infection. Genome Research, 2014, 24, 850-859.	5.5	60
51	Effects of omega-3 and -6 fatty acids on Mycobacterium tuberculosis in macrophages and in mice. Microbes and Infection, 2008, 10, 1379-1386.	1.9	59
52	An NAD+ Phosphorylase Toxin Triggers Mycobacterium tuberculosis Cell Death. Molecular Cell, 2019, 73, 1282-1291.e8.	9.7	58
53	Induction of Apoptosis and Release of Interleukinâ€‘1Î² by Cell Wallâ€“Associated 19â€‘kDa Lipoprotein during the Course of Mycobacterial Infection. Journal of Infectious Diseases, 2004, 190, 1167-1176.	4.0	54
54	Mycobacterium tuberculosis 19-Kilodalton Lipoprotein Inhibits Mycobacterium smegmatis-Induced Cytokine Production by Human Macrophages In Vitro. Infection and Immunity, 2001, 69, 1433-1439.	2.2	52

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55	The C-Type Lectin Receptor DC-SIGN Has an Anti-Inflammatory Role in Human M(IL-4) Macrophages in Response to Mycobacterium tuberculosis. Frontiers in Immunology, 2018, 9, 1123.	4.8	51
56	Horizontally acquired genomic islands in the tubercle bacilli. Trends in Microbiology, 2008, 16, 303-308.	7.7	50
57	Playing hide-and-seek with host macrophages through the use of mycobacterial cell envelope phthiocerol dimycocerosates and phenolic glycolipids. Frontiers in Cellular and Infection Microbiology, 2014, 4, 173.	3.9	47
58	<i>Mycoplasma penetrans</i>Bacteremia and Primary Antiphospholipid Syndrome1. Emerging Infectious Diseases, 1999, 5, 164-167.	4.3	46
59	Vaccination Against Tuberculosis With Whole-Cell Mycobacterial Vaccines. Journal of Infectious Diseases, 2016, 214, 659-664.	4.0	45
60	How is the phagocyte lectin keyboard played? Master class lesson by Mycobacterium tuberculosis. Trends in Microbiology, 2003, 11, 259-263.	7.7	44
61	TBVAC2020: Advancing Tuberculosis Vaccines from Discovery to Clinical Development. Frontiers in Immunology, 2017, 8, 1203.	4.8	44
62	Zinc and copper toxicity in host defense against pathogens: Mycobacterium tuberculosis as a model example of an emerging paradigm. Frontiers in Cellular and Infection Microbiology, 2013, 3, 89.	3.9	43
63	Emerging Trends in the Formation and Function of Tuberculosis Granulomas. Frontiers in Immunology, 2012, 3, 405.	4.8	42
64	Formation of Foamy Macrophages by Tuberculous Pleural Effusions Is Triggered by the Interleukin-10/Signal Transducer and Activator of Transcription 3 Axis through ACAT Upregulation. Frontiers in Immunology, 2018, 9, 459.	4.8	40
65	Promoter and neck region length variation of DC-SIGN is not associated with susceptibility to tuberculosis in Tunisian patients. Human Immunology, 2007, 68, 908-912.	2.4	39
66	Diverging biological roles among human monocyte subsets in the context of tuberculosis infection. Clinical Science, 2015, 129, 319-330.	4.3	39
67	Type-2 diabetes alters the basal phenotype of human macrophages and diminishes their capacity to respond, internalise, and control Mycobacterium tuberculosis. Memorias Do Instituto Oswaldo Cruz, 2018, 113, e170326.	1.6	38
68	Interactions of Attenuated Mycobacterium tuberculosis phoP Mutant with Human Macrophages. PLoS ONE, 2010, 5, e12978.	2.5	38
69	Effect of Deletion or Overexpression of the 19-Kilodalton Lipoprotein Rv3763 on the Innate Response to Mycobacterium tuberculosis. Infection and Immunity, 2005, 73, 6831-6837.	2.2	37
70	Podosomes, But Not the Maturation Status, Determine the Protease-Dependent 3D Migration in Human Dendritic Cells. Frontiers in Immunology, 2018, 9, 846.	4.8	37
71	Phase Variations of the <i>Mycoplasma penetrans</i> Main Surface Lipoprotein Increase Antigenic Diversity. Infection and Immunity, 1999, 67, 1569-1578.	2.2	37
72	Organization of Ureaplasma urealyticum urease gene cluster and expression in a suppressor strain of Escherichia coli. Journal of Bacteriology, 1996, 178, 647-655.	2.2	36

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73	Activity of Drug Combinations against Dormant <i>Mycobacterium tuberculosis</i>. Antimicrobial Agents and Chemotherapy, 2010, 54, 2712-2715.	3.2	34
74	Key Role for DsbA in Cell-to-Cell Spread ofShigella flexneri, Permitting Secretion of Ipa Proteins into Interepithelial Protrusions. Infection and Immunity, 2000, 68, 6449-6456.	2.2	32
75	Towards a crucial role for DC-SIGN in tuberculosis and beyond. Trends in Microbiology, 2006, 14, 383-387.	7.7	32
76	C-type lectins with a sweet spot for<i>Mycobacterium tuberculosis</i>. European Journal of Microbiology and Immunology, 2011, 1, 25-40.	2.8	32
77	Horizontal acquisition of a hypoxia-responsive molybdenum cofactor biosynthesis pathway contributed to Mycobacterium tuberculosis pathoadaptation. PLoS Pathogens, 2017, 13, e1006752.	4.7	32
78	Mycobacteriaâ€"host interactions in human bronchiolar airway organoids. Molecular Microbiology, 2022, 117, 682-692.	2.5	32
79	Manipulation of the Mononuclear Phagocyte System by Mycobacterium tuberculosis. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a018549-a018549.	6.2	31
80	Tuberculosis-associated IFN-I induces Siglec-1 on tunneling nanotubes and favors HIV-1 spread in macrophages. ELife, 2020, 9, .	6.0	31
81	A nucleotidyltransferase toxin inhibits growth of <i>Mycobacterium tuberculosis</i> through inactivation of tRNA acceptor stems. Science Advances, 2020, 6, eabb6651.	10.3	30
82	Characterization of a majorMycoplasma penetranslipoprotein and of its gene. FEMS Microbiology Letters, 1995, 130, 313-319.	1.8	29
83	An Interferon-Related Signature in the Transcriptional Core Response of Human Macrophages to Mycobacterium tuberculosis Infection. PLoS ONE, 2012, 7, e38367.	2.5	29
84	Protection against influenza infection requires early recognition by inflammatory dendritic cells through C-type lectin receptor SIGN-R1. Nature Microbiology, 2019, 4, 1930-1940.	13.3	28
85	Collectin CL-LK Is a Novel Soluble Pattern Recognition Receptor for Mycobacterium tuberculosis. PLoS ONE, 2015, 10, e0132692.	2.5	27
86	DC-SIGN Interacts with Mycobacterium leprae but Sequence Variation in This Lectin Is Not Associated with Leprosy in the Pakistani Population. Human Immunology, 2006, 67, 102-107.	2.4	26
87	Functional characterization of the Mycobacterium tuberculosis serine/threonine kinase PknJ. Microbiology (United Kingdom), 2010, 156, 1619-1631.	1.8	26
88	Deletion of the 19kDa antigen does not alter the protective efficacy of BCG. Tubercle and Lung Disease, 2000, 80, 243-247.	2.1	25
89	Amino acid capture and utilization within theMycobacterium tuberculosisphagosome. Future Microbiology, 2014, 9, 631-637.	2.0	25
90	Metallobiology of Tuberculosis. Microbiology Spectrum, 2014, 2, .	3.0	24

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91	Pyroptosis of resident macrophages differentially orchestrates inflammatory responses to <i>Staphylococcus aureus</i> in resistant and susceptible mice. European Journal of Immunology, 2015, 45, 794-806.	2.9	24
92	The allele encoding the mycobacterial Erp protein affects lung disease in mice. Cellular Microbiology, 2003, 5, 65-73.	2.1	22
93	Die another way: Ferroptosis drives tuberculosis pathology. Journal of Experimental Medicine, 2019, 216, 471-473.	8.5	22
94	Length Variation of DC-SIGN and L-SIGN Neck-Region has no Impact on Tuberculosis Susceptibility. Human Immunology, 2007, 68, 106-112.	2.4	21
95	Fatty acid oxidation of alternatively activated macrophages prevents foam cell formation, but Mycobacterium tuberculosis counteracts this process via HIF-1Î± activation. PLoS Pathogens, 2020, 16, e1008929.	4.7	21
96	Genetic determination of the effect of post-translational modification on the innate immune response to the 19 kDa lipoprotein of Mycobacterium tuberculosis. BMC Microbiology, 2009, 9, 93.	3.3	20
97	Identification of two glycosylated components of Mycoplasma penetrans: a surface-exposed capsular polysaccharide and a glycolipid fraction. Microbiology (United Kingdom), 1998, 144, 1247-1255.	1.8	19
98	Antigenic characterization and cytolocalization of P35, the major Mycoplasma penetrans antigen. Microbiology (United Kingdom), 1999, 145, 343-355.	1.8	19
99	ILC precursors differentiate into metabolically distinct ILC1-like cells during Mycobacterium tuberculosis infection. Cell Reports, 2022, 39, 110715.	6.4	19
100	Host-Derived Lipids from Tuberculous Pleurisy Impair Macrophage Microbicidal-Associated Metabolic Activity. Cell Reports, 2020, 33, 108547.	6.4	18
101	Intracellular replication of attenuated Mycobacterium tuberculosis phoP mutant in the absence of host cell cytotoxicity. Microbes and Infection, 2009, 11, 115-122.	1.9	17
102	C-type lectins in immune defense against pathogens: the murine DC-SIGN homologue SIGNR3 confers early protection against<i>Mycobacterium tuberculosis</i>infection. Virulence, 2010, 1, 285-290.	4.4	17
103	Colon-specific immune microenvironment regulates cancer progression versus rejection. OncoImmunology, 2020, 9, 1790125.	4.6	17
104	A Pulmonary <i>Lactobacillus murinus</i> Strain Induces Th17 and RORÎ³t+ Regulatory T Cells and Reduces Lung Inflammation in Tuberculosis. Journal of Immunology, 2021, 207, 1857-1870.	0.8	17
105	High Throughput Phenotypic Selection of Mycobacterium tuberculosis Mutants with Impaired Resistance to Reactive Oxygen Species Identifies Genes Important for Intracellular Growth. PLoS ONE, 2013, 8, e53486.	2.5	17
106	A central role for aspartate in Mycobacterium tuberculosis physiology and virulence. Frontiers in Cellular and Infection Microbiology, 2013, 3, 68.	3.9	16
107	Mycobacteria and the Greasy Macrophage: Getting Fat and Frustrated. Infection and Immunity, 2014, 82, 472-475.	2.2	13
108	Modulation of Cystatin C in Human Macrophages Improves Anti-Mycobacterial Immune Responses to Mycobacterium tuberculosis Infection and Coinfection With HIV. Frontiers in Immunology, 2021, 12, 742822.	4.8	12

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109	The synthesis and inÂvitro biological evaluation of novel fluorinated tetrahydrobenzo[j]phenanthridine-7,12-diones against Mycobacterium tuberculosis. European Journal of Medicinal Chemistry, 2019, 181, 111549.	5.5	10
110	Dressed not to kill: <scp>CD</scp>16⁺ monocytes impair immune defence against tuberculosis. European Journal of Immunology, 2013, 43, 327-330.	2.9	9
111	Multi-Stress Induction of the Mycobacterium tuberculosis MbcTA Bactericidal Toxin-Antitoxin System. Toxins, 2020, 12, 329.	3.4	9
112	Dissemination of <i>Mycobacterium tuberculosis</i> is associated to a <i>SIGLEC1</i> null variant that limits antigen exchange via trafficking extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12046.	12.2	9
113	C-type lectins in immunity to Mycobacterium tuberculosis. Frontiers in Bioscience - Scholar, 2011, S3, 1147.	2.1	7
114	Preclinical assessment of a new live attenuated Mycobacterium tuberculosis Beijing-based vaccine for tuberculosis. Vaccine, 2020, 38, 1416-1423.	3.8	7
115	Of Clots and Granulomas: Platelets are New Players in Immunity to Tuberculosis. Journal of Infectious Diseases, 2014, 210, 1687-1690.	4.0	6
116	Dysregulation of the IFN-I signaling pathway by<i>Mycobacterium tuberculosis</i>leads to exacerbation of HIV-1 infection of macrophages. Journal of Leukocyte Biology, 2022, 112, 1329-1342.	3.3	6
117	Mycobacterium tuberculosis and Dendritic Cells: Whos Manipulating Whom?. Current Immunology Reviews, 2005, 1, 101-105.	1.2	5
118	Variability in the virulence of specific Mycobacterium tuberculosis clinical isolates alters the capacity of human dendritic cells to signal for T cells. Memorias Do Instituto Oswaldo Cruz, 2019, 114, e190102.	1.6	5
119	An improved Xer-cise technology for the generation of multiple unmarked mutants in Mycobacteria. BioTechniques, 2020, 68, 106-110.	1.8	5
120	Phase Variations of the Mycoplasma penetrans Main Surface Lipoprotein Increase Antigenic Diversity. Infection and Immunity, 1999, 67, 1569-1578.	2.2	4
121	<scp>SIGN</scp> ing a symbiotic treaty with gutÂmicrobiota. EMBO Journal, 2015, 34, 829-831.	7.8	3
122	Key Role for DsbA in Cell-to-Cell Spread ofShigella flexneri, Permitting Secretion of Ipa Proteins into Interepithelial Protrusions. Infection and Immunity, 2000, 68, 6449-6456.	2.2	3
123	C-type Lectins in Immunity to Lung Pathogens. Current Topics in Microbiology and Immunology, 2020, 429, 19-62.	1.1	2
124	Metallobiology of Tuberculosis. , 0, , 377-387.		2
125	Editorial: How to play tag? DC-SIGN shows the way!. Journal of Leukocyte Biology, 2011, 89, 321-323.	3.3	1
126	Hostâ€“Pathogen Interactions. , 2013, , 107-126.		1

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127	Antigen Smuggling in Tuberculosis. Cell Host and Microbe, 2014, 15, 657-659.	11.0	1
128	Wheeling and Dealing With Antigen Presentation in Tuberculosis. Trends in Microbiology, 2016, 24, 166-168.	7.7	1
129	Bacterial pathogenesis: A sand grain in antigen processing. Nature Microbiology, 2017, 2, 16234.	13.3	1
130	Tuberculosis Boosts HIV-1 Production by Macrophages Through IL-10/STAT3-Dependent Tunneling Nanotube Formation. SSRN Electronic Journal, 0, , .	0.4	1
131	Mycobacterium tuberculosis Virulence and Evolution. , 2014, , 535-541.		0
132	Moonlighting activity of the epigenetic machinery restrains infection. EMBO Journal, 2018, 37, 161-163.	7.8	0
133	Antimicrobial zinc toxicity in MÏ•s: ZnT1 pays the toll. Journal of Leukocyte Biology, 2021, 109, 281-282.	3.3	0