

Mamta Chawla-Sarkar

List of Publications by Year in descending order

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79
papers

2,015
citations

201385

27
h-index

301761

39
g-index

88
all docs

88
docs citations

88
times ranked

2515
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Influenza Seasonality at Sub-Regional Levels in India and Implications for Vaccination Timing. PLoS ONE, 2015, 10, e0124122.	1.1	104
2	Antiviral activity of baicalin against influenza virus H1N1-pdm09 is due to modulation of NS1-mediated cellular innate immune responses. Journal of Antimicrobial Chemotherapy, 2014, 69, 1298-1310.	1.3	100
3	Rotavirus Nonstructural Protein 1 Suppresses Virus-Induced Cellular Apoptosis To Facilitate Viral Growth by Activating the Cell Survival Pathways during Early Stages of Infection. Journal of Virology, 2010, 84, 6834-6845.	1.5	83
4	Myocyte-Derived Hsp90 Modulates Collagen Upregulation via Biphasic Activation of STAT-3 in Fibroblasts during Cardiac Hypertrophy. Molecular and Cellular Biology, 2017, 37, .	1.1	75
5	Surveillance and molecular characterization of rotavirus strains circulating in Manipur, North-Eastern India: Increasing prevalence of emerging G12 strains. Infection, Genetics and Evolution, 2010, 10, 311-320.	1.0	68
6	Circulation of a Novel Pattern of Infections by Enteric Adenovirus Serotype 41 among Children below 5 Years of Age in Kolkata, India. Journal of Clinical Microbiology, 2011, 49, 500-505.	1.8	65
7	The molecular chaperone heat shock protein-90 positively regulates rotavirus infection. Virology, 2009, 391, 325-333.	1.1	63
8	Comparative evaluation of real-time PCR and conventional RT-PCR during a 2 year surveillance for influenza and respiratory syncytial virus among children with acute respiratory infections in Kolkata, India, reveals a distinct seasonality of infection. Journal of Medical Microbiology, 2009, 58, 1616-1622.	0.7	56
9	Comprehensive analysis of genomic diversity of SARS-CoV-2 in different geographic regions of India: an endeavour to classify Indian SARS-CoV-2 strains on the basis of co-existing mutations. Archives of Virology, 2021, 166, 801-812.	0.9	55
10	Full genomic analysis of a human group A rotavirus G9P[6] strain from Eastern India provides evidence for porcine-to-human interspecies transmission. Archives of Virology, 2009, 154, 733-746.	0.9	51
11	Molecular characterization of enteric adenovirus genotypes 40 and 41 identified in children with acute gastroenteritis in Kolkata, India during 2013â€“2014. Journal of Medical Virology, 2017, 89, 606-614.	2.5	46
12	Rotaviral Enterotoxin Nonstructural Protein 4 Targets Mitochondria for Activation of Apoptosis during Infection. Journal of Biological Chemistry, 2012, 287, 35004-35020.	1.6	45
13	Rotavirus-Encoded Nonstructural Protein 1 Modulates Cellular Apoptotic Machinery by Targeting Tumor Suppressor Protein p53. Journal of Virology, 2013, 87, 6840-6850.	1.5	42
14	Hospital based surveillance and genetic characterization of rotavirus strains in children (<5 years) with acute gastroenteritis in Kolkata, India, revealed resurgence of G9 and G2 genotypes during 2011â€“2013. Vaccine, 2014, 32, A20-A28.	1.7	41
15	Genomic analysis of human rotavirus strains G6P[14] and G11P[25] isolated from Kolkata in 2009 reveals interspecies transmission and complex reassortment events. Infection, Genetics and Evolution, 2013, 14, 15-21.	1.0	39
16	Rotavirus-induced miR-142-5p elicits proviral milieu by targeting non-canonical transforming growth factor beta signalling and apoptosis in cells. Cellular Microbiology, 2016, 18, 733-747.	1.1	38
17	Tyrosine phosphorylation modulates mitochondrial chaperonin Hsp60 and delays rotavirus NSP4-mediated apoptotic signaling in host cells. Cellular Microbiology, 2017, 19, e12670.	1.1	36
18	In Silico Study of Rotavirus VP7 Surface Accessible Conserved Regions for Antiviral Drug/Vaccine Design. PLoS ONE, 2012, 7, e40749.	1.1	33

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19	First report of human rotavirus G8P[4] gastroenteritis in India: Evidence of ruminants to human zoonotic transmission. <i>Journal of Medical Virology</i> , 2013, 85, 537-545.	2.5	32
20	MAVS Protein Is Attenuated by Rotavirus Nonstructural Protein 1. <i>PLoS ONE</i> , 2014, 9, e92126.	1.1	32
21	Identification of Cellular Calcium Binding Protein Calmodulin as a Regulator of Rotavirus A Infection during Comparative Proteomic Study. <i>PLoS ONE</i> , 2013, 8, e56655.	1.1	31
22	Complex reassortment events of unusual G9P[4] rotavirus strains in India between 2011 and 2013. <i>Infection, Genetics and Evolution</i> , 2017, 54, 417-428.	1.0	31
23	Prevalence of respiratory syncytial virus group B genotype BA-IV strains among children with acute respiratory tract infection in Kolkata, Eastern India. <i>Journal of Clinical Virology</i> , 2009, 45, 358-361.	1.6	30
24	Rotavirus NSP1 inhibits interferon induced non-canonical NF κ B activation by interacting with TNF receptor associated factor 2. <i>Virology</i> , 2013, 444, 41-44.	1.1	30
25	A spatio-temporal cardiomyocyte targeted vector system for efficient delivery of therapeutic payloads to regress cardiac hypertrophy abating bystander effect. <i>Journal of Controlled Release</i> , 2015, 200, 167-178.	4.8	30
26	Quantitative PCR-based identification of enteric viruses contaminating fresh produce and surface water used for irrigation in Egypt. <i>Environmental Science and Pollution Research</i> , 2019, 26, 21619-21628.	2.7	30
27	Active Participation of Cellular Chaperone Hsp90 in Regulating the Function of Rotavirus Nonstructural Protein 3 (NSP3). <i>Journal of Biological Chemistry</i> , 2011, 286, 20065-20077.	1.6	29
28	Rotavirus disrupts cytoplasmic P bodies during infection. <i>Virus Research</i> , 2015, 210, 344-354.	1.1	28
29	Hsp90/Cdc37 assembly modulates TGF β 2 receptor-II to act as a profibrotic regulator of TGF β 2 signaling during cardiac hypertrophy. <i>Cellular Signalling</i> , 2015, 27, 2410-2424.	1.7	28
30	Identification of common human host genes involved in pathogenesis of different rotavirus strains: An attempt to recognize probable antiviral targets. <i>Virus Research</i> , 2012, 169, 144-153.	1.1	27
31	Increase in prevalence of human group A rotavirus G9 strains as an important VP7 genotype among children in eastern India. <i>Journal of Clinical Virology</i> , 2008, 43, 334-339.	1.6	26
32	RA-839, a selective agonist of Nrf2/ARE pathway, exerts potent anti-rotaviral efficacy in vitro. <i>Antiviral Research</i> , 2019, 161, 53-62.	1.9	23
33	Molecular Mechanism behind Rotavirus NSP1-Mediated PI3 Kinase Activation: Interaction between NSP1 and the p85 Subunit of PI3 Kinase. <i>Journal of Virology</i> , 2013, 87, 2358-2362.	1.5	22
34	Pandemic and seasonal influenza viruses among patients with acute respiratory illness in Kashmir (India). <i>Influenza and Other Respiratory Viruses</i> , 2011, 5, e521-e527.	1.5	21
35	Surveillance and molecular characterization of human influenza B viruses during 2006 to 2010 revealed co-circulation of Yamagata-like and Victoria-like strains in eastern India. <i>Infection, Genetics and Evolution</i> , 2011, 11, 1595-1601.	1.0	21
36	Detection of human G10 rotavirus strains with similarity to bovine and bovine-like equine strains from untypable samples. <i>Infection, Genetics and Evolution</i> , 2012, 12, 467-470.	1.0	21

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37	Genetic Characterization of Circulating 2015 A(H1N1)pdm09 Influenza Viruses from Eastern India. PLoS ONE, 2016, 11, e0168464.	1.1	21
38	Rotaviral nonstructural protein 4 triggers dynamin-related protein 1-dependent mitochondrial fragmentation during infection. Cellular Microbiology, 2018, 20, e12831.	1.1	20
39	Community Based Case-Control Study of Rotavirus Gastroenteritis among Young Children during 2008-2010 Reveals Vast Genetic Diversity and Increased Prevalence of G9 Strains in Kolkata. PLoS ONE, 2014, 9, e112970.	1.1	19
40	Rotavirus infection induces G1 to S phase transition in MA104 cells via Ca ²⁺ /Calmodulin pathway. Virology, 2014, 454-455, 270-279.	1.1	19
41	Synchronized Orchestration of miR-99b and let-7g Positively Regulates Rotavirus Infection by Modulating Autophagy. Scientific Reports, 2019, 9, 1318.	1.6	19
42	Molecular characterization and comparative analysis of pandemic H1N1/2009 strains with co-circulating seasonal H1N1/2009 strains from eastern India. Archives of Virology, 2011, 156, 207-217.	0.9	17
43	Nanotized PPAR γ Overexpression Targeted to Hypertrophied Myocardium Improves Cardiac Function by Attenuating the p53-GSK3 β -Mediated Mitochondrial Death Pathway. Antioxidants and Redox Signaling, 2019, 30, 713-732.	2.5	17
44	Genetic characterization of circulating seasonal Influenza A viruses (2005-2009) revealed introduction of oseltamivir resistant H1N1 strains during 2009 in eastern India. Infection, Genetics and Evolution, 2010, 10, 1188-1198.	1.0	16
45	The first identification of rare human group A rotavirus strain G3P[10] with severe infantile diarrhea in eastern India. Infection, Genetics and Evolution, 2012, 12, 1933-1937.	1.0	16
46	H7N9 influenza outbreak in China 2013: In silico analyses of conserved segments of the hemagglutinin as a basis for the selection of peptide vaccine targets. Computational Biology and Chemistry, 2015, 59, 8-15.	1.1	16
47	Full genomic analysis of an influenza A (H1N2) virus identified during 2009 pandemic in Eastern India: evidence of reassortment event between co-circulating A(H1N1)pdm09 and A/Brisbane/10/2007-like H3N2 strains. Virology Journal, 2012, 9, 233.	1.4	15
48	Epidemiology of rotavirus diarrhea among children less than 5 years hospitalized with acute gastroenteritis prior to rotavirus vaccine introduction in India. Vaccine, 2020, 38, 8154-8160.	1.7	15
49	Identification of P[8]b Subtype in OP354-Like Human Rotavirus Strains by a Modified RT-PCR Method. Japanese Journal of Infectious Diseases, 2010, 63, 208-211.	0.5	15
50	Phosphorylation Drives an Apoptotic Protein to Activate Antiapoptotic Genes. Journal of Biological Chemistry, 2013, 288, 14554-14568.	1.6	14
51	Upsurge and spread of G3 rotaviruses in Eastern India (2014-2016): Full genome analyses reveals heterogeneity within Wa-like genomic constellation. Infection, Genetics and Evolution, 2018, 63, 158-174.	1.0	14
52	Progressive Rotavirus Infection Downregulates Redox-Sensitive Transcription Factor Nrf2 and Nrf2-Driven Transcription Units. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-48.	1.9	14
53	Complete genotyping of unusual species A rotavirus G12P[11] and G10P[14] isolates and evidence of frequent in vivo reassortment among the rotaviruses detected in children with diarrhea in Kolkata, India, during 2014. Archives of Virology, 2016, 161, 2773-2785.	0.9	13
54	Diversity of rotavirus genotypes circulating in children ≤ 5 years of age hospitalized for acute gastroenteritis in India from 2005 to 2016: analysis of temporal and regional genotype variation. BMC Infectious Diseases, 2020, 20, 740.	1.3	13

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55	Rotavirus activates a noncanonical ATM-Chk2 branch of DNA damage response during infection to positively regulate viroplasm dynamics. <i>Cellular Microbiology</i> , 2020, 22, e13149.	1.1	12
56	Rotavirus Infection: A Perspective on Epidemiology, Genomic Diversity and Vaccine Strategies. <i>Indian Journal of Virology: an Official Organ of Indian Virological Society</i> , 2011, 22, 11-23.	0.7	11
57	Full genome analysis and characterization of influenza C virus identified in Eastern India. <i>Infection, Genetics and Evolution</i> , 2013, 16, 419-425.	1.0	11
58	Viperin, an IFN-Stimulated Protein, Delays Rotavirus Release by Inhibiting Non-Structural Protein 4 (NSP4)-Induced Intrinsic Apoptosis. <i>Viruses</i> , 2021, 13, 1324.	1.5	11
59	Treading a HOSTile path: Mapping the dynamic landscape of host cell-rotavirus interactions to explore novel host-directed curative dimensions. <i>Virulence</i> , 2021, 12, 1022-1062.	1.8	10
60	The Novel Coronavirus Enigma: Phylogeny and Analyses of Coevolving Mutations Among the SARS-CoV-2 Viruses Circulating in India. <i>JMIR Bioinformatics and Biotechnology</i> , 2020, 1, e20735.	0.4	10
61	Biphasic regulation of RNA interference during rotavirus infection by modulation of Argonaute2. <i>Cellular Microbiology</i> , 2019, 21, e13101.	1.1	9
62	Rotavirus Induces Epithelial-Mesenchymal Transition Markers by Transcriptional Suppression of miRNA-29b. <i>Frontiers in Microbiology</i> , 2021, 12, 631183.	1.5	9
63	Spectrum of respiratory viruses circulating in eastern India: Prospective surveillance among patients with influenza-like illness during 2010-2011. <i>Journal of Medical Virology</i> , 2013, 85, 1459-1465.	2.5	8
64	Rotaviral nonstructural protein 5 (NSP5) promotes proteasomal degradation of up-frameshift protein 1 (UPF1), a principal mediator of nonsense-mediated mRNA decay (NMD) pathway, to facilitate infection. <i>Cellular Signalling</i> , 2022, 89, 110180.	1.7	8
65	Genetic characterization of group-A rotaviruses among children in eastern India during 2014-2016: Phylodynamics of co-circulating genotypes. <i>Vaccine</i> , 2019, 37, 6842-6856.	1.7	7
66	Development and evaluation of a multiplex conventional reverse-transcription polymerase chain reaction assay for detection of common viral pathogens causing acute gastroenteritis. <i>Diagnostic Microbiology and Infectious Disease</i> , 2020, 97, 115061.	0.8	7
67	Genetic characterization and evolutionary analysis of norovirus genotypes circulating among children in eastern India during 2018-2019. <i>Archives of Virology</i> , 2021, 166, 2989-2998.	0.9	7
68	Rotavirus activates MLKL-mediated host cellular necroptosis concomitantly with apoptosis to facilitate dissemination of viral progeny. <i>Molecular Microbiology</i> , 2022, 117, 818-836.	1.2	7
69	A decade-long temporal analyses of human group-A rotavirus among children with gastroenteritis: Pre-vaccination scenario in West Bengal, eastern India. <i>Journal of Medical Virology</i> , 2020, 92, 1334-1342.	2.5	6
70	In quest of small-molecules as potent non-competitive inhibitors against influenza. <i>Bioorganic Chemistry</i> , 2021, 114, 105139.	2.0	5
71	Molecular characterization of Influenza A pandemic H1N1 viruses circulating in eastern India during 2017-19: Antigenic diversity in comparison to the vaccine strains. <i>Infection, Genetics and Evolution</i> , 2020, 81, 104270.	1.0	4
72	Surveillance in eastern India (2007-2009) revealed reassortment event involving ns and PB1-F2 gene segments among co-circulating influenza A subtypes. <i>Virology Journal</i> , 2012, 9, 3.	1.4	3

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73	Species A rotaviruses isolated from hospitalized patients over 5 years of age in Kolkata, India, in 2012/13. Archives of Virology, 2018, 163, 745-750.	0.9	3
74	Genetic characterization and phylogenetic variations of human adenovirus strains circulating in eastern India during 2017-2020. Journal of Medical Virology, 2021, 93, 6180-6190.	2.5	3
75	Emergence of a novel SARS-CoV-2 Pango lineage B.1.1.526 in West Bengal, India. Journal of Infection and Public Health, 2022, 15, 42-50.	1.9	3
76	Rotavirus-Mediated Suppression of miRNA-192 Family and miRNA-181a Activates Wnt/ β -Catenin Signaling Pathway: An In Vitro Study. Viruses, 2022, 14, 558.	1.5	3
77	Rotavirus Infection in India: A Major Cause of Childhood Gastroenteritis. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2012, 82, 135-151.	0.4	1
78	Epidemiology of major entero-pathogenic viruses and genetic characterization of Group A rotaviruses among children (≤ 5 years) with acute gastroenteritis in eastern India, 2018-2020. Journal of Applied Microbiology, 2022, 133, 758-783.	1.4	1
79	Circulating Rotavirus Types and Drug-Resistant Diarrheagenic Escherichia coli Causing Enteric Infection in Under-Five Children in Rural West Bengal, India. Journal of Bioengineering & Biomedical Science, 2018, 08, .	0.2	0