

Faculty Details

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Area Of Research: Host-Virus interactions

Faculty Details

Dr Musturi Venkataramana, Associate Professor, received Ph. D degree from Sri Venkateswara University, Tirupati, Andhra Pradesh. Later on, undergone the Post-doctoral training at Indian Institute of Science (IISc), India, Uppsala University, Sweden and Thomas Jefferson University, Philadelphia, USA. The research interests include the understanding the host-virus interactions with reference to the dengue and chikungunya viruses. In this direction, the research group carries the studies on the characterization of the strains of dengue and chikungunya circulating in South India and the analysis of role of virus coded structural, non-structural proteins and un-translated regions on disease manifestations caused by the above two viruses.

Notice Board

No Records Available

Students And Project Trainees

Students/Projects Trainees

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Publications

- 17 Deepti Maisnam, Arcy Billoria, VS V Prasad, Musturi Venkataramana (2023) , Association of Dengue Virus Serotypes 1 and 2 with Severe Dengue Having Deletions in Their 3'Untranslated Regions (3'UTRs) , Microorganisms, MDPI,11(3),666, IF - 4.92.
- 16 Lekha Gandhi, Deepti Maisnam, Deepika Rathore, Preeti Chauhan, Anvesh Bonagiri, Musturi Venkataramana (2023) , Differential localization of dengue virus protease affects cell homeostasis and triggers to thrombocytopenia , iScience, Cell Press,27(1),,1-21 IF - 5.08.
- 15 Lekha Gandhi, Deepti Maisnam, Deepika Rathore, Preeti Chauhan, Anvesh Bonagiri, Musturi Venkataramana (2022) , Respiratory illness virus infections with special emphasis on COVID-19 , European Journal of Medical Research, BioMed Central,27,,236 IF - 4.5.
- 14 Chaitanya Gandikota, Fareed Mohammed, Lekha Gandhi, Deepti Maisnam, Ushodaya Mattam, Deepika Rathore, Arpan Chatterjee, Katyayani Mallick, Arcy Billoria, V S V Prasad, Naresh Babu Venkata Sepuri, Musturi Venkataramana (2020) , Mitochondrial import of dengue virus NS3 protease and cleavage of GrpEL1, a co-chaperone of mtHsp70; DOI: 10.1128/JVI.01178-20 , Journal of Virology, American Society for Microbiology,,, IF - 4.324.
- 13 Chaitanya Gandikota, Lekha Gandhi, Deepti Maisnam, M M Kesavulu, Arcy Billoria, Vsv Prasad, Musturi Venkataramana (2020) , A Novel anti-NS2BNS3pro Antibody-Based Indirect ELISA Test for the Diagnosis of Dengue Virus Infections; doi: 10.1002/jmv.26024 , Journal of Medical Virology, Wiley,,, IF - 2.373.
- 12 Lata R. Ganji, Lekha Gandhi, Venkataramana Musturi, Meena A. Kanyalkar (2020) , Design, synthesis and evaluation of different scaffold derivatives against NS2B-NS3 protease of dengue virus; DOI: <https://doi.org/10.1007/s00044-020-02660-y> , Medicinal Chemistry Research , Springer Link,,, IF - 1.783.
- 11 Musturi Venkataramana (2019) , Significant mutations in the genome of dengue virus serotype-1 support its continuous circulation from 2014 to 2019 in Hyderabad, India; BMC Infectious Diseases 2020, 20(Suppl 1):324 <https://doi.org/10.1186/s12879-020-05038-y>; on page 3 , International Science Symposium on HIV and Infectious Diseases (ISSHID 2019), BMC Infectious Diseases,1,1,on 3 IF - 2.56.
- 10 Kishore Vaddadi, Chaitanya Gandikota, Pratul Kumar Jain, V S V Prasad and Musturi Venkataramana (2017) , Co-circulation and co-infections of all dengue virus serotypes in Hyderabad, India 2014 , Epidemiology and Infection, 2017, Cambridge University Press,45,12,2563-74 IF - 2.047.
- 9 K. Vaddadi, C. Gandikota and M. Venkataramana. (2017) , Complete genome characterization and evolutionary analysis of serotype-4 associated with severe dengue. , Epidemiol. Infect. 2017., Cambridge University Press,145,,1443-1450 IF - 2.075.
- 8 Satheesh G, Prakash Prabhu N and Venkataramana M (2014) , 3D modeling of dengue virus NS4B and chikungunya nsP4: Identification of a common drug target and designing a single antiviral inhibitor. , Current Computer-Aided Drug Design (CADD), Bentham Science,10(4),,361-373 IF - 1.2.
- 7 Venkataramana M, Vindal V, Kondapi AK (2009) , Emergence of Swine flu in Andhra Pradesh: Facts and future. , Indian Journal of Microbiology, Association of Microbiologists of India,49,,320-323 IF - 0.988.

- 6 Dhar D, Venkataramana M, Ponnuswamy A, Das S (2009) , Role of Polypyrimidine Tract Binding protein in mediating internal initiation of translation of interferon regulatory factor 2 RNA. , PLoS One, Public Library of Science,4(9),,e7049 IF - 2.776.
- 5 Riber D, Venkataramana M, Sanyal S, Duvold T (2006) , Synthesis and biological evaluation of photo affinity labeled fusidic acid analogues. , J. Med. Chem, American Chemical Society,49(5),,1503-1505 IF - 6.259.
- 4 Li JJ, Venkataramana M, Sanyal S, Janson JC, Su ZG (2006) , Immobilized beta-cyclodextrin polymer coupled to agarose gel properly refolding recombinant Staphylococcus aureus elongation factor-G in combination with detergent micelle. , Protein Expression and Purification, Elsevier,45,,72-79 IF - 1.695.
- 3 Li JJ, Venkataramana M, Wang AQ, Sanyal S, Janson JC, Su ZG (2005) , A mild hydrophobic interaction chromatography involving polyethylene glycol immobilized to agarose media refolding recombinant Staphylococcus aureus elongation factor G. , Protein Expression and Purification, Elsevier,40,,327-335 IF - 1.695.
- 2 Mulder FA, Bouakaz L, Lundell A, Venkataramana M, Liljas A, Akke M, Sanyal S (2004) , Conformation and dynamics of ribosomal stalk protein L12 in solution and on the ribosome. , Biochemistry, Accelerated Publications,43,,5930-5936 IF - 2.952.
- 1 Venkataramana M, Ray PS, Chadda A, Das S (2003) , A 25 kDa cleavage product of Polypyrimidine tract binding protein (PTB) present in mouse tissues prevents PTB binding to the 5' untranslated region and inhibits translation of Hepatitis A virus RNA. , Virus Research, Elsevier,98,,141-149 IF - 2.736.

Projects

Title	Year	Duration	Amount(In Lakhs)	PI/I
ICMR project	2022	3	650000000000	Musturi Venkataramana
Host-virus interactions - MHRD-IISC STARS Co PI- Prof. Naresh Babu V. Sepuri, Department of Biochemistry	2019	3	990000000000	Dr. M. Venkataramana/
Host-virus interactions - SERB Arun Kumar, Department of Animal Biology	2018	3	550000000000	Dr. M. Venkataramana/ Co PI - Dr. Kota
Host-virus interactions-DBT Prakash Prabhu, Department of Biotechnology and Bioinformatics	2017	3	520000000000	Dr. M. Venkataramana/ Co PI- Dr. N.