

**International Journal of Current  
Microbiology and Applied Sciences  
(IJCMAS) NAAS RATING-5.38, ICV-95.39**  
ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online)

An International, Monthly, Online, Free Access, Peer Reviewed,  
Indexed, fast track Scientific Research Journal

**Certificate of Publication**

This is to certify that the following article reviewed by editorial board and published in International Journal of Current Microbiology and Applied Sciences (IJCMAS) ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online).

Int.J.Curr.Microbiol.App.Sci.2019.8.(11):2175-2188

<https://doi.org/10.20546/ijcmas.2019.811.252>

Detection of Zoonotic Rotavirus Transmission involving a Rare Genotype G3P[3] in the Amazon Region: A Phylodynamic Approach with Multiple Events of Reassortment and Evolutionary Origin

Renato da Silva Bandeira<sup>1</sup>, Lizandra Caroline dos Santos Souto<sup>1</sup>, Layse Costa de Souza<sup>1</sup>, Delana Andreza Melo Bezerra<sup>2</sup>, Poliana da Silva Lemos<sup>2</sup>, Alexandre C. Linhares<sup>2</sup> and Joana D'Arc Pereira Mascarenhas<sup>2\*</sup>

<sup>1</sup>Department of Virology, Evandro Chagas Institute, Ananindeua-Pará-Brazil

<sup>2</sup>Evandro Chagas Institute, Health Surveillance Secretariat, Brazilian Ministry of Health, Ananindeua-Pará-Brazil



*Dr. M. Prakash*  
*Editor-in-chief*

*International Journal of Current Microbiology and Applied Sciences*

[www.ijcmas.com](http://www.ijcmas.com)

[www.excellentpublishers.com](http://www.excellentpublishers.com)



© International Journal of Current Microbiology and Applied  
Sciences (IJCMAS)

[www.excellentpublishers.com](http://www.excellentpublishers.com) [www.ijcmas.com](http://www.ijcmas.com)