

**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.2016.5.(11):898-905

<http://dx.doi.org/10.20546/ijcmas.2016.511.103>

Factorial Design based Medium Optimization for the Improved Production of Biosurfactant by *Mucor polymorphosphorus*

Patrícia Mendes Souza<sup>1,4</sup>, Marta Freitas-Silva<sup>1,4</sup>, Thayse Alves de Lima e Silva<sup>1,4</sup>, Grayce K.B. Silva<sup>1,4</sup>, Marcos A.B. Lima<sup>2,4</sup>, Aline Elesbão Nascimento<sup>4</sup>, Nathália Marques<sup>3,4</sup>, Vanessa Pimentel Santos<sup>3,4</sup>, Laura Truan Oliveira<sup>3,4</sup> and Galba M.Campos-Takaki<sup>4\*</sup>

<sup>1</sup>National Program of Post-Doctorate (PNPD) –CAPES, Catholic University of Pernambuco, 50050-590, Recife, Pernambuco, Brazil;

<sup>2</sup>Department of Biology, Federal Rural University of Pernambuco, 52.171-900

Recife, Pernambuco, Brazil;

<sup>3</sup>Master in Development of Environmental Processes , Catholic University of Pernambuco, 50.050-900 Recife, Pernambuco, 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)