

# 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.2018.7.(7):3333-3340

<https://doi.org/10.20546/ijcmas.2018.707.388>

Minimization of Apoptosis like Changes by Supplementing Z-DEVD-FMK (CASPASE inhibitor) during Cryopreservation of Buffalo Bull Semen

Jasmer Dalal<sup>1\*</sup>, AjeetKumar<sup>2</sup>, M. Honparkhe<sup>2</sup>, A.K. Singh<sup>2</sup> and P.S. Brar<sup>2</sup>

<sup>1</sup>Department of Veterinary Gynaecology and Obstetrics, Lala Lajpat University of Veterinary and Animal University, Hisar, 125004, India

<sup>2</sup>Associate Professor, Department of Veterinary Gynaecology and Obstetrics, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana 141 004, Punjab, India

*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)