

**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.(4):2947-2960

<https://doi.org/10.20546/ijcmas.2018.704.335>

Study of the Antimicrobial Effect of the Different Combinations of Silver Nano-Particles, Antibiotics, Laser and Photo-Sensitizer on Gram Positive and Gram Negative Bacteria

Dalia El-Sayed Metwally<sup>1\*</sup>, Eglal Abd El-Salam El-Sherbiny<sup>1</sup>, Heba Saed Ramadan<sup>2</sup>, Moustafa Moustafa Mohamed Ahmed<sup>2</sup> and Mo'men Gameel Abd Elmageed<sup>3</sup>

<sup>1</sup>Department of Microbiology, Medical Research Institute, University of Alexandria, Egypt

<sup>2</sup>Department of Medical Biophysics, Medical Research Institute, University of Alexandria, Egypt

<sup>3</sup>Faculty of Science, Sohag University, Egypt



*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)