

7th GoGreen Summit-2021

14th - 15th October 2021 Manila, Philippines

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Fr. Dr. CHERIAN J KOTTAYIL PRINCIPAL

Mar Athanasios College For Advanced Studies Tiruvalla- 689101, Kerala

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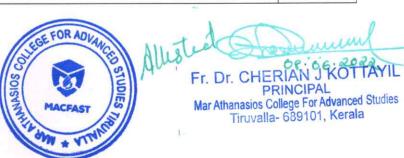
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Fr. Dr. CHERIAN J. KOTPA

PRINCIPAL

Mar Athanasios College For Advanced Studies

Tiruvalla- 689101, Kerala

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7th GoGreen Summit

14th - 15th October 2021



Anticancer Efficacy of Chitosan/Biogenic silver nanoparticle conjugate: An in vitro analysis on MDA MB cell lines





Dr Smitha Vijayan

Mar Athanasios College For Advanced Studies, India

Abstract

This study, the anticancer efficacies of chitosan-stabilized biogenic silver nanoparticles (Ch/Bio-AgNPs) were evaluated by *in vitro* studies on MDA MB (human adenocarcinoma) cells. The IC 50 for Biogenic silver nanoparticles (BioAgNP) and Ch/Bio-AgNPs were studied by MTT assay, antiproliferative and cell apoptosis assay, ethidium bromide/acridine orange double staining assay, RO analysis, DNA fragmentation study, Caspase 7 and 9 assays and flow cytometry. The housekeeping gene 6-actin was used in the gene expression analysis by real-time PCR. On MDA MB cell lines the IC 50 values calculated towards Bio-AgNP and Ch/Bio-AgNP was 4.346±0.6381 µg/ml and 0.9851±0.0065 µg/ml, respectively. The results clearly depicted the efficacy of Ch/Bio-AgNPs as an anticancer agent with characteristic apoptosis and up-regulation of p53 and p38 genes.

Keywords

Chitosan/Bio-AgNP conjugate;MDA MB cells; Antitumor activity; RT PCR

ISBN: 978-81-951121-4-2



Fr. Dr. CHERIAN J KOTTAYIL
PRINCIPAL

Mar Athanasios College For Advanced Studies Tiruvalla- 689101, Kerala

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7th GoGreen Summit

14th - 15th October 2021



Biography

Completed PhD in Microbiology from School of Bioscience, Mahatma Gandhi University and her thrust area of research was nanotechnology. She filed an Indian patent and received a start-up award offered by Mahatma Gandhi University. Published many well received research articles and book chapters in national and international journals. Currently working as an associate professor at School of Biosciences, Mar Athanasios College For Advanced Studies, Tiruvalla (MACFAST).



08.06.202 Fr. Dr. CHERIAN J KOTTAYIL

PRINCIPAL

Mar Athanasios College For Advanced Studies Tiruvalla- 689101, Kerala

ISBN: 978-81-951121-4-2

7th GoGreen Summit 2021