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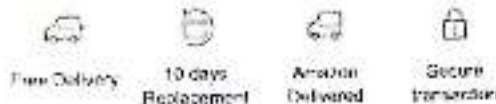
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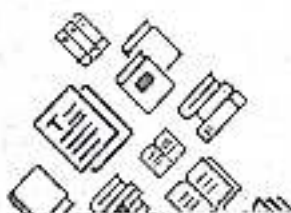
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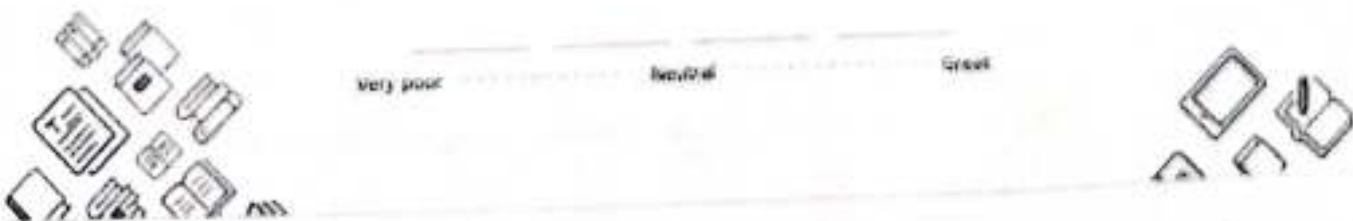
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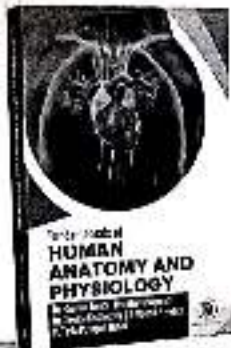


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# HERBAL DRUG Technology Practical Lab Manual



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## ***In-silico* and *In-vitro* Antimitotic Activity of Some Novel 6-Fluoro-1, 2, 4-Triazolo-Benzothiazole Analogues**

Naresh Podila <sup>a\*</sup>, Sanapala Arun Kumar <sup>b</sup>, Vijaya Kishore K. <sup>c</sup>,  
Rajashekar V. <sup>d</sup>, Risy Namratha Jamullamudi <sup>e</sup>,  
Prasada Rao Manchineni <sup>f</sup>, Namratha Sunkara <sup>g\*\*</sup>  
and Sreelatha Muddiseti <sup>h</sup>

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### ABSTRACT

Worldwide, cancer is a leading cause of death in both developed and developing countries. Numerous natural and manmade anticancer drugs treat solid tumors, lymphomas, and leukemias in different forms. In this work, nine 6-fluoro-triazolo-benzothiazole derivatives were prepared and evaluated for *in vitro* antimitotic activity. In addition, an *in-silico* study was also done using tubulin protein (PDB: 6QQN) by molecular docking method. Thin-layer chromatography (TLC) was used to monitor the progress of the reaction progress. Results revealed that TZ2 and TZ9 were the most active compounds with antimitotic action opposing the standard drug, aspirin. Results of molecular docking exhibited the inhibitory potential of triazole-benzothiazole against tubulin protein. The mitotic study indicates the efficacy of triazole-benzothiazole analogues in inhibiting the

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23.

# Insights On Corona Virus Disease (Covid-19): Prevention and Treatment

Dr. Gade Kalyani\*

Dr. Gatadi Srikanth\*\*

Dr. Rameshreddy Rajasekhar Reddy\*\*\*

## Treatment Strategies

Entry of SARS-CoV-2 into host cells is facilitated by the binding interaction of the CoV (S) protein to the target cell ACE2 receptor or Glucose regulated cell surface receptor protein (GRP78) and transmembrane protease serine 2 (TMPRSS2). Hence, it is sensible to postulate that compounds influencing this interaction could be prospective antivirals<sup>1</sup>. Ramos-Toyar and Muriel described the antiviral activity of Glycyrrhizin (GL), a foremost component from licorice root called *Glycyrrhizae Radix*<sup>2</sup>, which was able to inhibit SARS-CoV entry into Vero cells. Shah and coworkers showed

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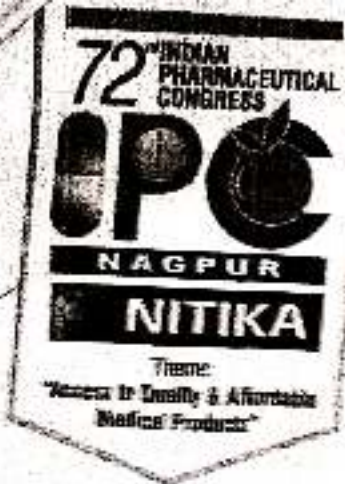
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*Role of Biotechnology  
in Covid Vaccine Development*

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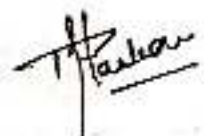
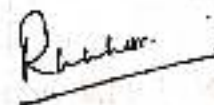





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## Certificate

It is our pleasure to certify that, **AZKA FATHIMA** presented a Poster in Scientific Session entitled **"LC-MS BASED STRATEGIES FOR CHARACTERIZATION AND QUANTIFICATION OF ANTIBODY-DRUG CONJUGATES."** in the 72<sup>nd</sup> Indian Pharmaceutical Congress held at Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during January 20-22, 2023.

					
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