

**GUEST LECTURE**  
**ON**  
**“IN SILICO DRUG DESIGN AND DISCOVERY WITH AN EMPHASIS**  
**ON DRUG DESIGN STRATEGIES TO COMBAT COVID-19”**  
**(21-06-23)**

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PG Department of Chemistry organised a guest lecture on **“In Silico Drug Design and Discovery with an emphasis on Drug Design Strategies to Combat COVID-19”**

By Dr. Ravi Prasad Aduri. Associate Professor, Dept.Of.Biological Sciences, Faculty APPCAIR on 21<sup>st</sup> June, 2023. The lecture was attended by 85 students and four faculty members.

The guest speaker was heartily welcomed by Dr.K.Kiran Kumar, faculty of APPCAIR. The lecture aimed to provide an in-depth understanding of the role of in silico drug design and discovery in combating the COVID-19 pandemic, with a particular focus on the strategies employed in drug design. The guest speaker, Dr. Ravi Prasad Aduri an esteemed expert in the field, shared valuable insights into the application of computational methods to accelerate the drug discovery process for COVID-19.

The guest speaker provided a comprehensive introduction to in silico drug design, elucidating its principles and methodologies. They explained how computer-aided techniques can expedite the drug discovery process by enabling virtual screening, molecular docking, and molecular dynamics simulations.

The lecture explored the concept of molecular docking and virtual screening, showcasing their significance in identifying potential drug candidates. The speaker explained the principles underlying these methods and showcased case studies demonstrating their successful application in COVID-19 drug design.

The lecture concluded with a discussion on the challenges and future perspectives of in silico drug design for combating COVID-19. The speaker emphasized the need for collaborative efforts between computational scientists, biologists, and clinicians to translate in silico discoveries into effective therapies.

The vote of thanks was given by Dr. K. Kiran Kumar, Faculty of PG Chemistry. Department presented a small token of appreciation to the valuable guest.



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Welcome to the **Guest Lecture** on

## 'In silico Drug Design and Discovery

with an emphasis on Drug Design Strategies to Combat COVID-19'

**21<sup>st</sup> June, 2023 @ 10:00 A.M.**

By

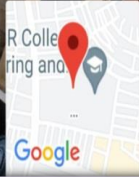
**Dr. Raviprasad Aduri**

Associate Professor, Dept. of Biological Sciences, Faculty, APPCAIR

Organized by: **Department of PG Chemistry**



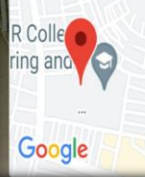
GPS Map Camera



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Vijayawada, Andhra Pradesh 520001, India  
Lat 16.524052°  
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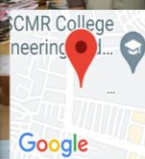
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Lat 16.523566°  
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