

# GOVERNMENT DEGREE COLLEGE, SERILINGAMPALLY

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## Extension Lecture organised

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On  
**Drug Discovery and Development**

**NEW GOVERNMENT DEGREE COLLEGE  
SERILINGAMPALLY**  
Department of Chemistry

by  
**Dr. Y. Mahesh Kumar Rao**  
Associate Research Scientist  
Sai Life Sciences Pvt. Ltd.  
Hyderabad

14<sup>th</sup> May, 2020  
4:00 PM IST

Faculty: Ms. K Pruthi  
Principal FAC: Dr. K Aruna Bai

Join Zoom Meeting  
<https://us04web.zoom.us/j/7835553080?pwd=VUhmRUhoV2Y2UGZThmZlMhXBUkN3Z209>  
Meeting ID: 783 5555 3080  
Password: 123456

Extension lecture - Drug Discovery and Development - 1

**Introduction**

- Complex, time consuming and costly process.  
Takes -10 yrs  
Average cost \$2.6 billion
- Natural products as lead structure in drug discovery
- High through put screening (HTS)
- Pharmacokinetics (absorption, distribution, metabolism and excretion)
- Pharmacodynamics (Binding of a drug to a specific receptor in a specific tissue and initiating biological response).

12:13 / 39:14

Extension lecture organised on “ Drug Discovery and Development” by Dr Y Mahesh Kumar Rao, Assc Research Scientist, Sai Life Sciences Pvt Ltd, Hyderabad on 14.05.2020.

Signature of the lecturer