

JSS Academy of Higher Education & Research, Mysuru

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JSS COLLEGE OF PHARMACY, OOTACAMUND (An ISO 9001:2015 Certified Institution)

A Report on

JSS AHER, Mysuru, sponsored one day Virtual Symposium on

"Building an innovation platform through artificial intelligence in drug discovery"

(11th December 2020)

Organized by
Department of Pharmaceutical Chemistry
JSS College of Pharmacy, Ooty

11th December 2020

Submitted By Dr. Gomathy S

Assistant Professor, Dept. of Pharmaceutical Chemistry

JSS College of Pharmacy, Ooty

Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Ooty, has organized JSS Academy of Higher Education & Research, Mysuru Sponsored one day Virtual Symposium on "Building an innovation platform through artificial intelligence in drug discovery" during 11th December, 2020.

Importance of the symposium

- Artificial Intelligence (AI) can help academic researchers to identify drug targets, find good molecules from data libraries, suggest chemical modifications, and identify candidates for repurposing and so on. Imaging-based information can be used as an additional source of information for existing virtual screening methods, thereby making drug discovery more efficient. Integrative computational biology and AI help improve treatment of complex disease by building explainable models. These models use different mathematical methods, and help to predict new targets for known compounds, repurpose to new indications, search for compounds with specific multi-target profile, or identify potential liabilities. AI will also significantly reduce the probability of human error and study historical data to cut costs.
- In the early process of drug discovery, machine learning has many potential uses, from initial screening of drug compounds to prediction of the success rate of a drug. More specifically, AI may play a role in drug target identification and validation, target-based, phenotypic and multi-target drug discoveries, drug repurposing and biomarker identification.
- Collaboration with academia: Industry-academia partnership are expected to keep growing as pharma is starting to embrace AI.
- The chemical entities are likely to enter higher phases of the drug development process.
 This had resulted in paradigm shift in identifying the drug likeness properties of lead molecules early in the drug discovery process. Hence, *in-silico* approaches are now

widely used to investigate the ADME properties as a tool to optimize the selection of

the most suitable candidates for drug development

Inauguration

One day virtual symposium was inaugurated by Dr. S.P. Dhanabal, Principal, JSS

College of Pharmacy, Ooty, and all faculties of the department of Pharmaceutical chemistry

were present. Dr. Gomathy S, Organizing secretary, welcomed the gathering and Dr. Md. Afzal

Azam, Convener, briefed about the genesis of the symposium. Dr. S.P. Dhanabal, Principal,

delivered his presidential address and highlighted the activities of JSS College of Pharmacy,

Ooty, during this pandemic situation. He also stressed about the importance of the symposium

in worldwide scenario.

SCIENTIFIC SESSION

Session 1: 10.00 AM-11.30 AM

Topic: Drug Discovery in the age of AI: Automation of the ML/DL for end-to-end (E2E)

application in drug discovery and development

Speaker: Dr. M. Ravikumar, Senior Scientist & founder, Immunocure, Hyderabad.

Session 2: 11.30 AM-1.00 PM

Topic: Application of Artificial Intelligence in drug design of Anti-cancer agents

Speaker: Dr. M. Karthikeyan, Senior Principal Scientist, CSIR-NCL, Pune

E-Presentation Session: 2.00 PM – 4.30 PM

We have received about 53 abstracts from over all India, based on the merit and three stage screening 28 abstracts were categorized and have been shortlisted for e- presentation. The

following evaluators have been nominated for poster presentation under three category.

The e-presentation evaluation team was composed of all the subject experts in it. External

experts were also included in the panel to confirm the fair evaluation.

Valedictory Function: 4.30 PM – 5.00 PM

The evaluator's details are as follows.

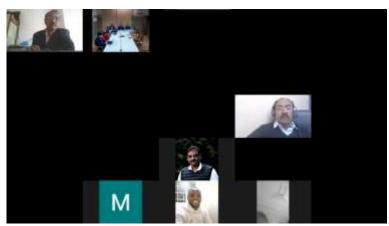
S.NO	NAME OF THE EVALUATOR	CATEGORY
1	Dr Uma Maheshwari, Professor, College of Pharmacy, Sri Ramakrishna Institute of Paramedical Sciences, Coimbatore	Formulation development & Screening Techniques
2.	Dr V Senthil, Professor, Dept. of Pharmaceutics, JSS College of Pharmacy, Ooty	Formulation development & Screening Techniques
3.	Dr Bijo Mathew, Associate Professor, Dept. of Pharmaceutical Chemistry, Amrita School of Pharmacy, Amrita Vishwa Vidyapeetham, Kochi	In silico drug design & development
4.	Dr T.K.Praveen, Professor & Head, Dept. of Pharmacology, JSS College of Pharmacy, Ooty	<i>In silico</i> drug design & development
5.	Dr Ashish Wadhwani, Faculty, JSS Academy of Higher Education & Research, Mauritius	Phytochemistry & Analytical method development
6.	Dr Suresh Mohan Kumar, Professor & Research Director, JSS College of Pharmacy, Ooty	Phytochemistry & Analytical method development

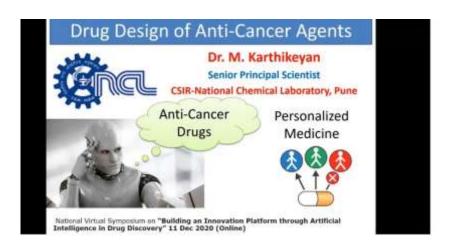
The e-Presentation results are as follows,

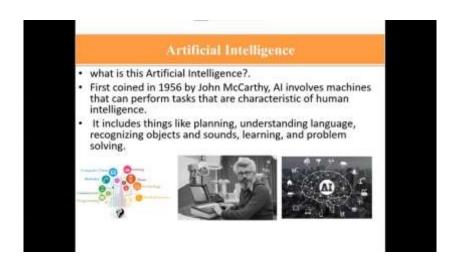
S.	Name of the Presenter and Institute	Category
No		
1	Mr.Podila Naresh, Research Scholar, JSS College of	In silico drug design &
	Pharmacy, Ooty	development
2	Ms. M.Gnana Ruba Priya, College of Pharmaceutical	In silico drug design &
	Sciences, Dayananda Sagar University, Bangalore	development
3	Ms. S.K.Janani, Research Scholar, JSS College of	Formulation development &
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4	Aakash Kumar S, PG Student, JSS College of	Formulation development &
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5	Feroze Ahamed. A, Department of Microbial	Phytochemistry & Analytical
	Technology, School of Biological Sciences, Madurai	method development
	Kamaraj University, Palkalai Nagar, Madurai	
6	Mr. Gouru Santhosh Reddy, Research Scholar, JSS	Phytochemistry & Analytical
	College of Pharmacy,Ooty	method development

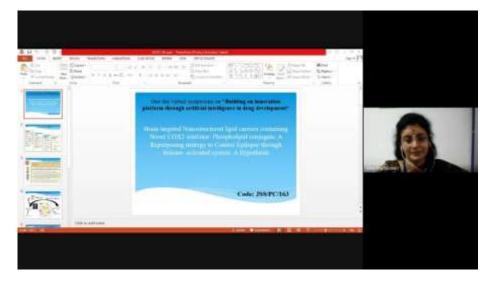
Glimpses of the symposium











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List of External Participants

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44.	Kannan R	Research scholar	JSS College of pharmacy
45.	Koppula jayanthi	Research scholar	JSS College of pharmacy
46.	Pulla Prudvi raj	Research scholar	JSS College of pharmacy
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48.	Bua bobson	PG student	JSS College of pharmacy
49.	Achyut vaze	PG student	JSS College of pharmacy
50.	Yele vidyasrilekha	Research scholar	JSS College of pharmacy
51.	Anjali Singh	Research scholar	JSS College of pharmacy
52.	Saumyalin Sahoo	PG student	JSS College of pharmacy
53.	Swarupa Rani.gurram	Research scholar	JSS College of pharmacy

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2	Nunkoo sarvesh	Research Scholar	Dr. Maurice Curé State College
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My Humble Pranams to the lotus feet of His Holiness Swamiji, for his blessings. As an organizing Secretary of this symposium, Firstly, I would like to extend my heartfelt thanks to JSS Academy of Higher Education & Research, Mysuru, for their continuous support and sponsoring a seminar grant of Rs. 70, 000/- to conduct this symposium in a smoother way. I take this opportunity to express my special thanks to all the resource persons and all the participants. I sincerely thank our beloved Principal, Dr S P Dhanabal, Dr Md.Afzal Azam, Convener, for their moral support. In addition, my thanks to Administrative officer, Mr C Jayakumar, Asst Professor and Mr Gautham, System Analyst and Mr Mahesha, Grant Section. Last but not the least, I thank all the teaching and supportive staff of Department of Pharmaceutical Chemistry for their valuable support throughout the symposium.

Dr. Gomathy SOrganizing Secretary