

**REPORT OF**

**Two Days Lecture Series**

**on**

**Effective Learning in**

**Pharmaceutical Chemistry**

**20<sup>th</sup> & 21<sup>st</sup> DECEMBER, 2019**

**Venue**

**Saraswathi Vidya Bhavan's College of Pharmacy,**

**Kalyan Shil Road, Sankara Nagar,**

**Sonarpada, Dombivli (E) 421204.**

Pharmaceutical Chemistry subject is core subject in Pharmaceutical Sciences hence two days lecture Series was organized in accordance with the syllabus for **Final year Semester VIII**, approved by University of Mumbai. The lecture series aimed to make learners feel confident in the subject of Pharmaceutical Chemistry and empower them to tackle the subject effectively.

With these objectives in mind the course of the 2 days lecture series on “**Effective Learning in Pharmaceutical Chemistry**” was designed and organized on **20<sup>th</sup> & 21<sup>st</sup> DECEMBER, 2019**

The following topics were covered in lecture series:

CNS drugs

Cholinergic Drugs

Cholinergic antagonists

Pharmaceutical Chemistry -Simplified

Analgesic agents -Opioid

Two days lecture series on Pharmaceutical Chemistry commenced with the lighting of the lamp and the lecture series was inaugurated at the hands of founder president **Dr. R Varadarajan**. The gathering was formally welcomed by **Dr. Monita Gide**, Principal, Saraswathi Vidya Bhavan's College of Pharmacy, Dombivli.

The Inaugural function was graced by Dr. Dr. R. Varadraj, the Founder President of Saraswathi Vidya Bhavan's College of Pharmacy, Dombivli, **Dr. Vithal M. Kulkarni**, Professor Emeritus Bharati Vidyapeeth Poona College of Pharmacy and Dr. **Evans Coutinho** I/C Principal & Professor, Bombay College of Pharmacy.

Dr. R. Varadraj, Founder President of the institute, who is also the leading educationalist in the nation with his international fame, addressed the delegates about the objective of 2 days lecture series in Pharmaceutical chemistry. He stressed on 100 % result in all subjects of B. Pharmacy specifically Pharmaceutical Chemistry. He highlighted the importance of learning thoroughly and advised the young generation to work hard to reach the goal through adapting systematic approach.

Dr. Vithal Kulkarni in his address stressed need of effective learning in pharmaceutical Chemistry which is core part of Drug Discovery and Development. In his speech he also

highlighted the significance pharmaceutical Chemistry subject and importance of the same in Pharma Industries.

On day one of the two days lecture series, the first resource person Dr. **Evans Coutinho** I/C Principal & Professor, Bombay College of Pharmacy enlightened students about CNS drugs. In his lecture Dr. Coutinho discussed the molecular mechanism of action of benzodiazepine along with structure of GABA A receptor and its specificity. He explained IUPAC nomenclature of 1,4-benzodiazepine, imidazobenzodiazepine and triazolobenzodiazepine. He also explained SAR of benzodiazepine by constructing hypothetical GABAA receptor binding model from 3D structure of benzodiazepine.

The deliberation on CNS drugs was followed by the session on opioid analgesic drugs by **Dr. Meena Kanyalkar**, Associate Professor, Prin. K. M. Kundnani College of Pharmacy. Madam explained chemical classification, SAR and structures of opioid analgesic drugs by breaking rigid morphine molecule into flexible structure and peripheral modifications on morphine molecule.

The sessions on day one concluded with the presentation of **Dr. Krishna Iyer on Cholinergic antagonist drugs**. In his lecture sir discussed the therapeutic application and SAR of cholinergic antagonist drugs by giving real life examples.

The day two of the lecture series commenced with the session on ‘**cholinergic drugs**’ by Dr Prashant Kharkar. He has given overview of ANS, classification of cholinergic drugs, SAR of Muscarinic agonist, binding model of Ach to Muscarinic receptor and Ach Esterase inhibitors.

He also explained how to remember structure of drug molecules from hints hidden in its generic or chemical name

The second session of the day was on Pharmaceutical Chemistry –Simplified by **Dr. Tarur Radhakrishnan**, Ex Director, USV Ltd. Sir discussed the disconnection approach and synthon approach used in designing synthesis of drug molecules.

Post lunch session of the day was dedicated Dr. V.M. Kulkarni, Emeritus Professor of Medicinal Chemistry, Bharati Vidya Peeth's College of Pharmacy, Pune. He highlighted the significance of

Pharmaceutical medicinal chemistry in Pharmacy field.

His scientific session expressed the need of Pharmaceutical chemistry in drug development and with his rich experience in the medicinal chemistry. He explained the approaches to simplify the learning process of medicinal chemistry.

He also shared some tips by which learners can score good marks in medicinal Chemistry at University examination. He also discussed some case studies which will help learners to identify the mistakes along with corrective measures for the same.

The Workshop concluded with the Certificate distribution. About 108 B. Pharm Final year Delegates from 10 different colleges attended the lecture series. The sessions were appreciated by student delegates and overall the lecture series turned out to be highly informative. Delegates also suggested to organize such event on regular basis which would help student community to secure highest marks at University examination.

Some Glimpses of the **Two Days Lecture Series on “Effective Learning in Pharmaceutical Chemistry” held on 20<sup>th</sup> & 21<sup>st</sup> DECEMBER, 2019** at Saraswathi Vidya Bhavan’s College of Pharmacy, Dombivli .

## Inaugural function





session on CNS drugs by Dr. **Evans Coutinho**, Principal, Bombay College of Pharmacy.

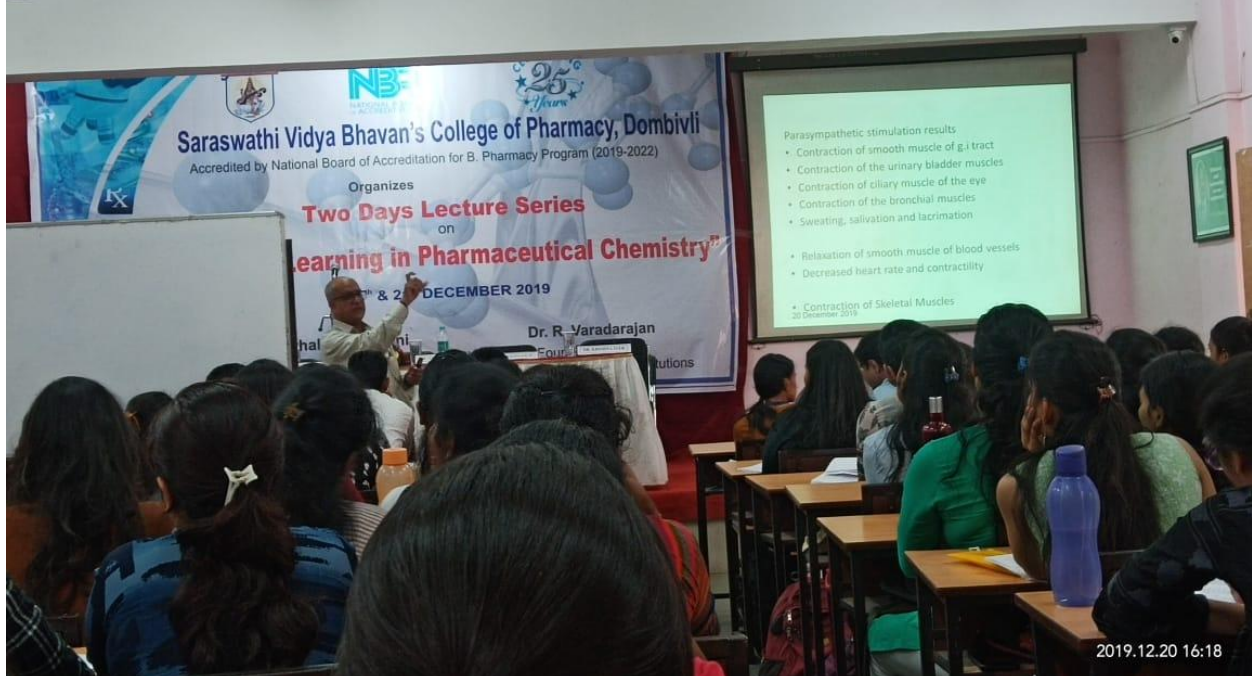




Session on opioids analgesic drugs by **Dr. Meena Kanyalkar**



## Session on Cholinergic antagonist drugs by Dr. Krishna Iyer





**Session on cholinergic drugs' by Dr Prashant Kharkar**





Session on Pharmaceutical Chemistry –Simplified by **Dr. Tarur Radhakrishnan**, Ex Director, USV Ltd.



Session by Dr. V.M. Kulkarni, Emeritus Professor of Medicinal Chemistry, Bharati Vidya







# Saraswathi Vidya Bhavan's College of Pharmacy, Dombivli

Accredited by National Board of Accreditation for B. Pharmacy Program (2019-2022)