

**One Day Seminar on  
New Vistas in Medicinal Chemistry Research, 27<sup>th</sup> February 2015**



**Chief Guest of the Seminar: Dr. V. S. Velingkar**  
Sr. Professor (Pharmaceutical sciences),  
NMIMS University



**Resource person: Dr. V. S. Velingkar**  
Sr. Professor,  
(Pharmaceutical sciences),  
NMIMS University



**Resource person:** Dr. Tarur Radhakrishnan  
 Ex-Director-Generic research,  
 USV Limited, Mumbai



**Resource person:** Dr. Krishna Iyer  
 Professor,  
 Pharmaceutical Chemistry,  
 Bombay College of Pharmacy, Kalina

The seminar commenced with the Inaugural function by lighting lamp and seeking blessings of Goddess Saraswati. Dr. Pradnya Palekar Shanbhag in her welcome address presented the progress, aims and objectives of the institute. Dr. V.S. Velingkar Chief guest and Dr. T.V.Radhakrishnan in their address narrated significance of Organic Chemistry in the field of Pharmaceutical Medicinal Chemistry. They also guided the student community on the easy steps to learn organic chemistry and to get rid of phobia of Organic Chemistry.

In the first session of the seminar, Dr.T.V.Radhakrishnan with his rich industrial experience, explained the basic concept of Green Chemistry and two different aspects of Green Chemistry leading to enhancement of productivity. In his deliberation he also presented various case studies from industries that not only lead to increase in productivity but also became economical and environmental friendly.

Post lunch session commenced with presentation of Dr.V.S.Velingkar, Sr. Professor SPTM, NMIMS University Dr.Velingkar in his deliberation on Research Methodology explained the systematic steps to be followed in carrying out research like defining problem, the methodology to be followed and finally the interpretation of the results. He also guided the students and the faculties the various facets of Medicinal Chemistry like design and development of drug from Natural sources to the synthetic drugs from Natural sources to the synthetic drugs using High through put technology in short span of time Dr. V.S.Velingkar has also stressed on the synchronization of biochemistry and synthetic chemistry to come up with a new drug.

In the last session Dr. Krishna Iyer Professor of Pharma Chemistry explained the role of aldehyde oxidase an emerging enzyme in drug metabolism. Dr. Krishna Iyer in his deliberation explained the role of Cytochrome P450 family of metabolic enzymes in drug metabolism and the role of aldehyde and xanthine oxidase the molybdenum containing enzyme in various physiological activities. Structural details and the mechanism of its actions in oxidation of aldehydes to acids. In turn the various drugs metabolized by aldehyde oxidases. The enzyme being absent in cats and dogs while present in human liver the drug metabolism can be altered significantly and hence this enzyme needs to be studied in establishing metabolic profile of drugs.

Valedictory function began with the panel discussion further was major aspects contained in the seminar were overviewed by Dr. Chhaya Gadgoli. The function came to an end with an official vote of thanks by Mrs. Monita Gide and the program was concluded with National Anthem.