

DST Sponsored Two Days National Seminar Organized by
Shri B. M. Shah College of Pharmaceutical Education & Research, Modasa
APPLICATION OF NANOTECHNOLOGY AND BIOTECHNOLOGY IN DRUG DELIVERY SYSTEMS
(February 11-12, 2013)

Report

Shri B. M. Shah College of Pharmaceutical Education & Research, Modasa, a NBA accredited college, had organized DST sponsored two days National Seminar on 'Application of Nanotechnology and Biotechnology in Drug Delivery Systems' on February 11-12, 2013; Monday and Tuesday. More than hundred and fifty delegates consisting PG students (70), Research Scholar (30), Academia (51), industries (05) were participated from Pharmacy colleges (16), industries (2) and government organization (1) spread over Gujarat, Rajasthan and Maharashtra in this seminar.

March 28, 2013 (Monday): On first day, inaugural function was followed by registration and breakfast. It was started with prayer. Prof. Dr. N. M. Patel Principal & Director had introduced the guests and institute. Guests were felicitated by garlands and mementos as a token of love. Seminar was inaugurated by lighting the lamp. Dr. Y. K. Agrawal, Director, Institute of Research & Development, Forensic Sciences University, Gandhinagar had given keynote address. Dr. Arun N. Shah, President of the M. L. Gandhi Higher Education Society, Modasa, had presided over the function. Dr. Mukesh S. Patel, Associate Professor, Department of Pharmaceutics had given votes of the thanks.

First Plenary lecture on 'Nanocarriers in Drug Delivery System' was given by Dr. Sanyog Jain, Department of Pharmaceutics, NIPER, SAS Nagar (Mohali) Punjab-India. He had explain in detail of nonoliposome, nanoparticle and self emulsifying drug delivery system on targeted site in cancer therapy. How pharmacokinetics can be evaluated using *in-vivo* and *in-vitro* correlation in different models and its limitations using his research work carried out at NIPER. The lecture was more informative for the young scientist. He also explains all quarries raised while open session.

Second plenary lecture on "Preparation and Anesthetic Properties of Propofol Microemulsions in Rats" had delivered by Dr. Dinesh O. Shah, Founding Director; Shah-Schulman Center for Surface Science and Nanotechnology, Dharmsinh Desai University, Nadiad-387001, and Center for Surface Science and Engineering and Professor Emeritus; University of Florida, Gainesville, Florida, 32611, USA. He had briefly explained that the anesthetic properties of propofol are preserved when reformulated as a transparent microemulsion rather than as a turbid macroemulsion and that the dose response relation can be selectively modified by altering the microemulsion's surfactant type and concentration. Really, His lecture was instructive and useful to the research scientist.

In post lunch session third plenary lecture on “Properties of nanoparticles and its application had given by Dr. Abhijit Majumdar, Professor, Gujarat Forensic Science University, Gandhinagar-382007, Gujarat. He had explained applications of nanotechnology in drug delivery as well as in forensic science with suitable examples. Fourth plenary lecture was given by Mr. Deepak Rawtani, Assistant professor, department of Nano-biotechnology in Gujarat Forensic Science University, Gandhinagar-382007, Gujarat on ‘Emerging trends of Halloysite Nanotubes’. He had well discussed on the interaction of DNA with Halloysite Nanotube with gold and silver nanoparticle based composite.

February, 12, 2013 (Tuesday): The next day First Plenary lecture was delivered on “Basic cell culture technique: Application in Pharmaceutical Research” by Dr. Vipul P. Patel, HOD, Department of Biotechnology, Shri S. K. Patel College of Pharmaceutical Education and Research, Kherva, Gujarat, India. He had explained briefly application of tissue culture in Pharmaceutical research. In Actual in fact, His lecture was useful to the P.G student and young Scientist. Second plenary lecture was given by Dr. A. N. Misra, Professor in Pharmaceutics and Dean of faculty of Technology & Engineering, the M. S. University of Baroda, on ”Challenges in the Delivery of siRNA Therapeutics”. He had explained siRNA drug delivery used in treating or preventing a variety of diseases using both local and systemic delivery approaches. It is sure that advancement in this direction will evolve a new landscape for treating a range of diseases. Really, His lecture was more valuable and constructive to scientist working on same topic.

Evaluation of poster paper presentation was schedule after lunch. There were 33 poster presentation including review (10), different formulation (12), nanotechnology (5) and other research papers (6). Participants were from 12 different academic institutions. Papers were evaluated by Prof. V. M. Patel (APMC, Himatnagar) and Dr. Vipul P.Patel (SKPER, Kherva) and Dr. M. R. Patel (Modasa).

In valedictory function brief review on evaluation of poster papers was given by Dr. V. M. Patel and declared the winners. Winners were awarded with certificate and trophy by Mr. Navinbhai Modi, Vice president M. L. Gandhi higher education society, Modasa. He had also given presidential address on valedictory function. Feedback of arrangement, hospitality, resource person and content of seminar were received from delegates. Vote of thanks was given by Associate Prof. M. R. Patel, HOD, Department of Pharmaceutics. All the delegates had received certificates after providing feedback of the seminar. Participants were dispersed after high tea.

We are highly thankful to Department of Science and Technology, Ministry of Health Science and Welfare, New Delhi for sanctioning financial assistance to organize the two days National seminar on application submitted by Dr. Mukesh S. Patel, Associate Professor, Department of Pharmaceutics, BMCPER, Modasa.



DST National Seminar, February 11, 2013, Monday



DST National Seminar, February 12, 2013, Tuesday