

## **QIP 1: 28 May – 8 June 2012**

**Coordinating departments:** Pharmaceutical Chemistry, Pharmacology and Pharmaceutics

**Theme:** Drug Discovery and Development- Quest for Novel Targets

**28 May – 1 June 2012:** Department of Pharmaceutical Chemistry

**28-05-2012:** Professor P Gundu Rao delivered the first lecture of the workshop. A lot is talked about Intellectual Property Rights (IPR). Dr. Rao spoke at length on the “questions, *which are not frequently asked*” about IPR. He fielded many questions and gave clarifications. Professor M N A Rao (Gen. Manager R & D, Divi Labs, Hyderabad) was the next speaker. He dealt on the topic “Metaphors in science.” On the subject of patents, there was another speaker to enlighten the audience. It was Dr. K Satyanarayana (NATCO, Hyderabad). He spoke on “Patent Disputes.” Another speaker was Dr. C V S Subrahmanyam (Principal, RK College of Pharmacy, Hyderabad). He delivered a talk on “Process Optimization.”

**29-05-2012:** Everyone has become conscious of maintaining or achieving quality in his areas. Maintenance of quality is a prime requisite as far as pharmaceuticals are concerned. Dr. C V S Subrahmanyam gave a talk on “Quality –by-Design.”

Molecular modelling is an important concept in drug discovery. Dr. Sami Mukhopadhyay demonstrated the role of molecular modelling in his presentation on two days, **29 and 30 May**.

**31-05-2012:** The first lecture on this day came from Dr. G Suvarna Kini (Associate Professor, Dept. of Pharma Chemistry). It was titled, “Quest for new drugs for tuberculosis.” A talk from Dr. G Gautham Shenoy, professor in the same department, followed. It had the title, “Fishing for drug discovery.”

**01-06-2012:** Dr. B S Jayashree (Professor, Pharma Chemistry) explained the methods adopted for discovering new anticancer drugs in her talk titled, “ Novel targets in anticancer drug discovery.” Later in the day Dr. Alex Joseph (Assistant Professor) gave a presentation termed, “Drug target identification, validation and optimizing drug-target interaction.”

The afternoon sessions on Day 2, 3, 4 and 5 were set apart for demonstration of V-life molecular modelling software.

## **02 – 07 June 2012: Department of Pharmacology**

**02-06-2012:** The first talk was by Dr. C Mallikarjuna Rao (Professor and Head Pharmacology) who dealt with the topic: “The most suitable target for anticancer: HAT or HDAC?” Mr. Jayesh Mudgal (Lecturer, Pharmacology) was the next speaker. He spoke on “Cytokines and interventional immunology.” In the afternoon, the participants were taken for a visit to the Central Animal Facility of Manipal University. Mr. Nitish Kumar and Anoop Kishore co-ordinated the visit and explained the features of the animal facility.

**04-06-2012:** “Targeting angiogenesis” was the topic for Dr. Yogendra Nayak who started the lecture session of the day. Mr. Nitish Kumar (Lecturer, Pharmacology) delivered the next talk. His topic was: “Alcoholic liver disease, pathogenesis and newer targets for therapy.” The participants were taken to the Central Animal Facility in the afternoon for a demonstration of the screening for psychopharmacological activity. Mr. Jayesh Mudgal and Madhavan Nampoothiri demonstrated techniques in psychopharmacology.

**05-06-2012:** Dr. K N Chidambara Murthy (Triesta Science Lab, Bangalore) began the day’s proceedings with a presentation titled, “Complementary and alternative medicine in the management of cancer.” Professor Madhusudan P Joshi (Goa College of Pharmacy) then put forward his views through a lecture titled, “Research and creativity”. In the afternoon session, Ms. Geetha Mathew and Mr. Nitin Reddy demonstrated the techniques in tissue culture and screening.

**06-06-2012:** The day’s first talk was from Dr. N Gopalan Kutty, who spoke on “Cholesterol, from bad to good”. Following this Mr. Madhavan Nampoothiri gave a presentation on “Insulin receptor signalling in brain.” The afternoon session was spent on demonstrating Western Blot techniques, Mr. Nitin Reddy and Ms. Soja being the personnel involved.

**07-06-2012:** “Insulin-based drug discovery: the uncharted realms” was the title of the presentation from Mr. Anoop Kishore, who started the day’s events. After his talk, it was the turn of Professor Sreedhar Pai to deliver a lecture. He spoke on “New targets in diabetes.” A second demonstration of Western Blot techniques took place in the afternoon, for which Ms. Geetha Mathew and Mr. Pawan Nayak were the coordinators.