Maharashtra Education Society's

H.K. COLLEGE OF PHARMACY

JOGESHWARI (W), MUMBAI 400102

Report on

Two-Day Seminar On Journey Of A Drug Molecule- Design To Approval

Date: 24th & 25th January 2019

Venue: Auditorium, H.K. College of Pharmacy

Participants:
Students and faculty from H. K. College of Pharmacy, Jogeshwari and Faculty Delegates from
D. D. Vispute College of Pharmacy & Research Center, Panvel.

Chief Guest: Dr. Tarur Radhakrishnan, Pharma consultant.

Key Note Address: Dr. Tarur Radhakrishnan enlightened the audience by his keynote address on Challenges to drug discovery process in India. He gave an entire statics on Countries with maximum Pharmacy growth rate, Number of new molecules released every year, Time and cost of bringing NCE to market, Expenses and revenue curve for a new drug, Steps in drug discovery, Drugs recalled during Phase IV Clinical Trail Studies and Relationship between Generic and branded drugs, current scenario for research in India.

The sessions began with the lecture on **"Drug Design and Synthesis"** by **Dr. Shrikant Sakhalkar (Director New Business Development, Pact Labs Pvt Ltd.).** He spoke about Non-Infringing Process Design and Development and steps involved in it, Various challenges in synthetic route, Process Optimization, importance of Scale up, Safety process and effluent control in Process R &D.

The next session was about **"Drug Characterization" by Dr. Kapil Juvale (Assistant Professor, SVKM's SPPTM NMIMS).** He spoke about the need for characterization, process before characterization, Workflow for the process of characterization. He also gave a complete idea of principal, and examples of various spectroscopies like UV-Visible, IR, NMR, Mass and HPLC.

The second half of this day was dedicated to Workshop for all the B. Pharm students.
First Year B. Pharm: **Laboratory Safety and First-Aid by Dr. Chandrashekhar Barhate Manager, Analytical Research, IPCA Laboratories Ltd.**

Second Year B. Pharm: **Basic Analytical Skills by Dr. (Mrs.) R. K. Raheja Assistant Professor, SVKM's BNCP, Mumbai.**

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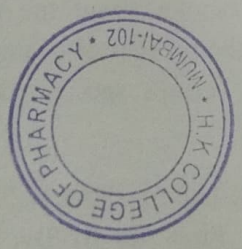
Third Year B. Pharm: **In-silico drug design (Schrödinger, India) by Dr. (Mrs.) Arundhati Abhyankar, Assistant Professor, HKCP**
Final Year B Pharm & M. Pharm: **Clinical Research & Associated Domains by Mr. Vishal Chaudhari Head of Operation (W), CLINI INDIA, Clinical Research Services**

The second day began with welcoming the guests followed by first session on **"Soft Skill Training For Managing Research" By DR. Milind Deshpande** (Co-founder & Managing Director TriGnosis Infotech Private Limited, Mumbai). He discussed about why companies gives more importance to soft skills with details about hard skill and soft skill balance. He highlighted the qualities of a performer like communication, time management, motivation, adaptability, collaboration and leadership skills. He elaborated the importance of emotional intelligence, self-awareness, self-regulation, empathy skills, internal motivation, social skills and mindfulness.

This was followed by the next session on "**New Drug Discovery- An Introspection**" by **Dr. V. Addepalli (Director, SVKM's C B Patel Research Center**). He began his discussion with a brief introduction to the ethics and recent attritions in the process of drug discovery. He discussed about safety pharmacology and importance of safety, efficacy and rationality of new molecule in drug discovery. He elaborated about the benefits of the parallel study of pharmacokinetics and pharmacodynamic parameters in the process. At last he highlighted the importance of biomarkers and drug repurposing.

The next session was on **"Approval process for NCE's" by Mr. S. W. Deshpande (Former joint commissioner, FDA - Maharashtra and Hon Director All India Drugs Control Officers Confederation /AIDCOC).** He discussed the approval process in detail with explaining the importance of each step. He talked about the regulatory set-up in the state licensing authority and central licensing authority with different conditions, prohibition and exceptions for clinical trials.
Seminar concluded with the vote of thanks by organizing committee.



Prepared by

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Principal

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