

About PERD Centre

B. V. Patel PERD Centre is one of leading multidisciplinary institutes in the field of pharmaceutical education and research in India. A non-profit organization, PERD Centre acts as a supportive partner to the pharmaceutical industry and academia.

The Centre is providing the facilities and resources to undertake the latest in research and development in pharmaceutical research. It has been conducting workshops and seminars in various fields such as molecular biology, analytical techniques on regular basis throughout the year, as a part of Continuing Education (CE) Programs.



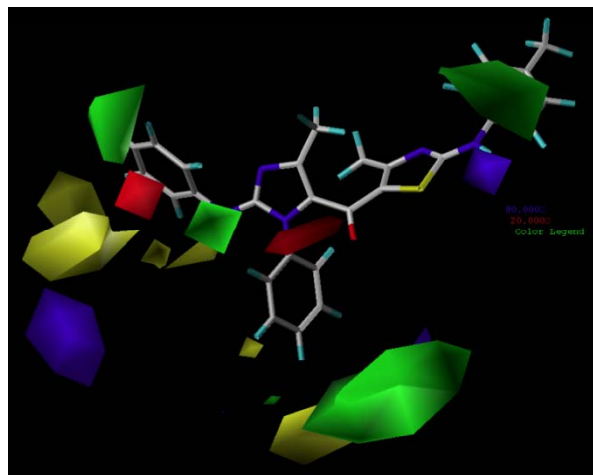
How to reach PERD Centre

PERD Centre is situated in western part of Ahmedabad on Sarkhej Gandhinagar Highway. One can reach PERD centre via bus/auto rickshaw/ taxi from bus stand, railway station and airport.

Distance from:

Airport	15 KM
Bus stand	12 KM
Railway station	11 KM

One can reach PERD centre from bus stand/ railway station via taking AMTS bus route number 66, 800, 900 or by auto rickshaw @ Rs. 150/- Approx.



For further information please contact

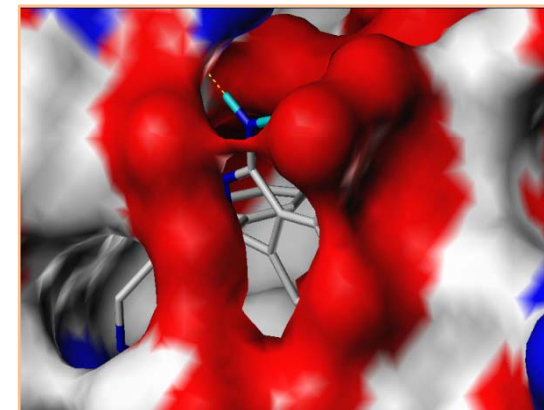
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**Hands on Workshops
on
Computer Aided Drug Design and
PK/PD modelling
August 7 & 8, 2014**



Organised By

Shri B. V. Patel Education Trust
&
BV Patel PERD Centre

B. V. Patel Pharmaceutical Education &
Research Development (PERD) Centre,
Sarkhej-Gandhinagar Highway, Thaltej,
Ahmedabad-380 054, Gujarat

Background and Objectives

Drug discovery and development is an exhaustive as well as interdisciplinary endeavor. It is mostly portrayed as a linear, consecutive process that starts with target identification and lead discovery, followed by lead optimization and pre-clinical studies to determine if such molecules satisfy a number of pre-set criteria for initiating clinical development.

It takes 12-15 years and costs around \$ 500-800 million for a molecule to become a drug. However, such a development process has resulted in high attrition rates with failures attributed to poor pharmacokinetics (39%), lack of efficacy (30%), animal toxicity (11%) and other factors.

With the help of Computer Aided Drug Design (CADD), the time and cost for the drug discovery and development has reduced considerably. PK/PD modelling is the integral part of potential new drug selection as well as to support labelling.

Content

The workshop is organized to provide knowledge about new trends in the field of drug discovery and development. Day one of the workshop will cover Computer Aided Drug Design which includes use of *in silico* drug design and its applications over the conventional approach. The usage of molecular modelling will narrow down the number of molecules to be synthesized and will have potential impact on economy. Also by 3D QSAR studies one can predict which type of molecules can be active for specific target. Day two of the

workshop will cover PK/PD modelling using Phoenix® WinNonlin® software which includes bioavailability estimations, bioequivalence testing, Non compartmental and compartmental methods, optimal PK/PD study designs and simulations.

Experts

The sessions will be conducted by in-house as well as external experts.



Who should attend

The workshop is intended for personnel with relevant scientific background seeking training in CADD applications including doctorate/research students as well as faculty in the field of organic chemistry, pharmaceutical sciences and related subject areas. The workshop aims to provide a platform from where trainees can start up their research work.

The objective is for the participants to become well versed in CADD and start designing their own molecules more rationally and coming up with a drug!!

Registration Fee: Rs. 2000/-

Important Notes

- Enrolment is restricted to 20 participants on first cum first served basis.
- Rush completed registration form along with the fee by demand draft (in favour of Shri B. V. Patel Education Trust, payable at Ahmedabad).
- Registration over telephone/ email will not be accepted.
- Fee includes tuition, workshop material, lunch and tea/coffee. Accommodation for female candidates can be arranged on request on payment basis.
- Participants are advised to bring their own laptop. Computer requirements are: for 3DQSAR: Windows 7 professional - 64 bit with NVIDIA GeForce graphic card. For Phoenix WinNonlin: Windows XP SP3, Vista SP2 32 bit, 7 SP1 32/64 bit, Intel 2 Duo 2.0 Ghz Processor or equivalent, 2GB RAM and Hard drive free space 300 MB.
- Cancellations will not be accepted less than 15 days prior to start of the workshop, but substitutions may be made at any time.
- Participants are advised to make their own travel arrangements.
- After successful completion of workshop certificate of participation will be awarded.

CE Program Coordinator

Dr. Neeta Shrivastava

Workshop Coordinators

Dr. Kamala K. Vasu

Dr. Anirban Samanta

Mr. Dhavit Pandya