

### About our Institution

The great patriot and educationist Dr.T.S.Avinashilingam under the auspices of the Avinashilingam Education Trust in 1957 established Sri Avinashilingam Home Science College for Women. The Institute has flourished progressively and now educates more than 6000 students. It functions under seven Schools, namely, Home Science, Physical Sciences & Computational Sciences, Biosciences, Arts & Social Sciences, Commerce & Management, Education and Engineering. The Institute is providing quality education of global standards on a strong foundation of Indian values and traditions to women students based on current advances in science and technology and societal demands with emphasis on commitment to social progress, peace, harmony, and national integration.

### About the Department

The Department was established in 1969, with the introduction of M.Sc. Biochemistry. It is presently offering undergraduate, postgraduate and research programmes (M.Phil. and Ph.D.) in Biochemistry and Biotechnology majors and post-graduate and M.Phil programmes in Bioinformatics. Additionally, the Department is also offering an add-on Certificate course in Bioinformatics for the undergraduates. A team of highly qualified, well trained and dedicated professionals are available to provide quality training and excellent research. The laboratories are equipped with state-of-the-art equipment for training and research.

### About the Workshop

Molecular modeling and Docking are powerful computational technique in modern drug discovery process to identify the potential drug lead compound from the library of ligands. Nowadays, all pharmaceutical and Biotech companies use computational tools in drug discovery process.

This training program aims to introduce the standard tools and step-by-step procedure in computational modeling for target molecule and predicting the structure of small molecules and their reactivity with target molecules. This will be a unique platform to all researchers working in this field to screen new drug lead compounds.

The training program is split into 6 sessions. Each of the session will have approximately 45 minutes of lecture along with demonstration on how to work with modules and perform analysis and interpretation.

### Outcome

- The participants will have hands-on experience on individual systems. This will help them develop additional skill and to grab employment in industries.
- The participants will get exposure in state-of-the-art Schrödinger's Small Molecular Drug Discovery Suite.
- The participants will gain knowledge on various computational methods and their applications in R & D departments of Pharma companies, Bio-tech companies and Research Institutes.

### Who can attend?

All Science graduates, postgraduates, research scholars and Staff members.

### Content of the training program

- Introduction to basics in Computer-Aided Drug Discovery process: Structure-based and ligand-based drug design
- Target identification and homology modeling
- Creating, Modifying and Preparation of ligand
- Molecular docking using Glide – Schrödinger module
- Molecular docking using AutoDock – Open-source Software
- Post docking analysis and interpretation of results

### Registration Fee

Participants will have to pay a registration fee of **Rs. 1500/-** in the form of Demand Draft drawn in favour of **The Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 641 043.**

Note: There will be a reduction in fee structure if there are more than ten participants from one Institute.

### Last date:

For receipt of Registration forms with fee: Sep 16, 2019

### REGISTRATION FORM

Name: \_\_\_\_\_

Gender: \_\_\_\_\_ Age: \_\_\_\_\_

Educational Qualifications: \_\_\_\_\_

Designation: \_\_\_\_\_

Department/Division: \_\_\_\_\_

Area of Teaching/Research: \_\_\_\_\_

Official Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Mobile No : \_\_\_\_\_

### REGISTRATION FEES

DD number: \_\_\_\_\_ Amount: \_\_\_\_\_

Bank: \_\_\_\_\_

Signature

**Note:** All further correspondence will be done only through E. mail / mobile. Hence providing the above information is mandatory.

## ORGANIZING TEAM

CHIEF PATRON

**Padma Shri. Dr. P. R. Krishnakumar**  
Chancellor

Avinashilingam Institute for Home Science and Higher  
Education for Women, Coimbatore.

PATRON

**Dr.(Mrs.) Premavathy Vijayan**  
Vice Chancellor

Avinashilingam Institute for Home Science and Higher  
Education for Women, Coimbatore.

HONORARY CONVENOR

**Dr. (Mrs.) S. Kowsalya**  
Registrar

Avinashilingam Institute for Home Science and Higher  
Education for Women, Coimbatore.

CONVENOR

**Dr. P. R. Padma**

Dean, School of Biosciences  
Professor and Head

Department of Biochemistry, Biotechnology &  
Bioinformatics

ORGANISING SECRETARY

**Dr. N. Santhi**

Assistant Professor

Department of Biochemistry, Biotechnology &  
Bioinformatics

COORDINATOR

**Dr. M. Rajeswari**

Assistant Professor

Department of Biochemistry, Biotechnology &  
Bioinformatics

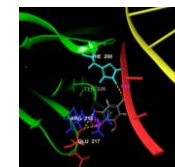


**Avinashilingam Institute for Home Science  
and Higher Education for Women**

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)  
Re-accredited with A+ Grade by NAAC. Recognised by UGC under Section 12 B  
Coimbatore-641 043, Tamil Nadu, India

## Two-Day Workshop on

## Molecular Modeling and Drug Designing



**September 20<sup>th</sup> & 21<sup>st</sup>, 2019**

Organized by

**Department of Biochemistry,  
Biotechnology & Bioinformatics**  
Avinashilingam Institute for Home  
Science & Higher Education for Women  
Coimbatore – 641 043

### Address for Correspondence

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Department of Biochemistry, Biotechnology  
&  
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