



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



**VINAYAKA MISSION'S  
RESEARCH FOUNDATION**  
(Deemed to be University under section 3 of the UGC Act 1956)



**DEPARTMENT OF BIOTECHNOLOGY**  
**EXPERT TALK ON “APPLICATIONS OF RECEPTOR  
PHARMACOLOGY IN DRUG DISCOVERY” 25-9-2023**

Department of Biotechnology has organized expert talk on “**Applications of Receptors pharmacology in drug Discovery**” on 25-9-2023. The gathering was welcomed by Dr.A.Nirmala, Associate Professor and Head, Department of Biotechnology, AVIT. Chief guest Dr.Murugesan Arumugam, M.Pharm, Ph.D., Assistant professor in Pharmacology, Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai, introduction and honoring with shawl done by Dr.S.Shanmuga Sundar, Assistant Professor (Gr-II), Department of Biotechnology. Then the session started by chief guest with focussed topics on receptors, their functions, types of receptors, ligand, drug receptor interaction, cell modulation, mechanism of action with many examples. He also focussed on how this receptor ligand binding principle useful in drug discovery and their application in pharma Industry.

**Key Topics Discussed:**

- **Definition and Overview of receptors and types:** The session started with an introduction to pharmacology, receptors, types like G-Protein coupled receptors, Ligand gated ion channel receptors, Kinase linked receptors and Nuclear receptors. The guest highlighted the need of different receptors, their mechanism of action, and application in drug development.

- **Drug receptor interaction :**

Guest explained about receptors, macromolecules involved in chemical signaling between and within cells; they may be located on the cell surface membrane or within the cytoplasm and also focused on how the drug molecule bind with receptors, and initiate the mechanism of action in disease person with example.

- **Application of receptors:**

He was explained about receptors application in drug development and manufacturing process involved in drug development to till marketing.

The expert talk very useful and informative that provided valuable insights into the field of pharmacology. The videos and presentations highlighted the importance of receptors and their application in pharmacology. This talk concluded with an emphasis on the potential career opportunities for the students and the need for continuous learning and networking in the field of pharmacology. The session ended successfully with vote of thanks by Ms.G.Arthi, Assistant Professor, Department of Biotechnology



Cordially invites you all for the  
**Expert Talk on**

## **Applications of Receptor Pharmacology In Drug Discovery: An Industrial Perspective**

📅 25.09.2023 | 🕒 10.30 am

📍 Digital Classroom



### **Resource Person**

**Dr. Murugesan Arumugam**

M.Pharm., Ph.D.,  
Assistant Professor in Pharmacology  
Sri Ramachandra Institute of  
Higher Education and Research  
(Deemed to be University)  
Porur, Chennai



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**Organised by: Department of Biotechnology, AVIT**









 **GPS Map Camera**



**Karunguzhipallam, Tamil Nadu, India**  
M54H+WMM, Karunguzhipallam, Tamil Nadu 603104, India  
Lat 12.657459°  
Long 80.179334°  
25/09/23 10:45 AM GMT +05:30