

# Sahyadri College of Pharmacy, Methwade, Sangola

## Department of Pharmacology

Pharmacology is the branch of medicine and biology concerned with the study of drug action. More specifically, it is the study of the interactions that occur between a living organism and chemicals that affect normal or abnormal biochemical function. If substances have medicinal properties, they are considered pharmaceuticals. The field encompasses drug composition and properties, interactions, toxicology, therapy, and medical applications and antipathogenic capabilities. The two main areas of pharmacology are pharmacodynamics and pharmacokinetics.

Pharmacology is all about “finding out how drugs work”. It is concerned with the effects of drugs on living organisms and their components such as cells, membranes, organelles, enzymes and DNA. Pharmacology affects us all, almost every day.

### Department Staff:

| Sr. No. | Name                              | Qualification                 | Designation                                               |
|---------|-----------------------------------|-------------------------------|-----------------------------------------------------------|
| 1.      | Dr. Naziya A. Tamboli             | M. Pharmacy<br>(Pharmacology) | HOD, Department of<br>Pharmacology<br><br>Asso. Professor |
| 2.      | Miss. Pranali V. Dethe            | M. Pharmacy<br>(Pharmacology) | Asst. Professor                                           |
| 3.      | Miss .Mahananda Kisan<br>Lokhande | M. Pharmacy<br>(Pharmacology) | Asst. Professor                                           |
| 4.      | Miss. Shamal Daji<br>Lokhande     | M. Pharmacy<br>(Pharmacology) | Asst. Professor                                           |

### Objectives:

To perform the study of practical aspects of anatomy and physiology, pathophysiology and clinical biochemistry of human system

To study major drug classes and prototype drugs with their mechanism of action.

To perform In-Vivo and In-Vitro experiments on animals and their isolated tissues  
To perform various research activities of crude drug and synthetic drug for its pharmacological evaluation.

## List of Major Equipment

| Sr. No. | List of Major Equipment       | Sr. No. | List of Major Equipment    |
|---------|-------------------------------|---------|----------------------------|
| 1       | Centrifuge machine electrical | 20      | Spignomanometer            |
| 2       | Haemocytometer                | 21      | Rabbit holder              |
| 3       | Medical Microscope            | 22      | Plethosmograph             |
| 4       | Medical Microscope            | 23      | Aminal Cages               |
| 5       | Electronic Balance            | 24      | Feeding Bottle             |
| 6       | LCD Projector                 | 25      | pole climbing apparatus    |
| 7       | Student Organ Bath            | 26      | counting chamber           |
| 8       | Sherrington Recording Drum    | 27      | Digital Plethismometer     |
| 9       | Spirometer                    | 28      | Digital Balance            |
| 10      | Analgesiometer                | 29      | Colorimeter-EQ650A         |
| 11      | Student Organ Bath            | 30      | Sherrington Recording Drum |
| 12      | Actophotometer                | 31      | Stethoscope                |
| 13      | Rotarod                       | 32      | Muscale Electrode          |

|    |                                     |    |                                              |
|----|-------------------------------------|----|----------------------------------------------|
| 14 | Analgesiometer (Eddies Heat Method) | 33 | Lucas Moiest Chamber                         |
| 15 | Plethysmograph                      | 34 | Stimulator                                   |
| 16 | Student Organ Bath                  | 35 | Histamine Chamber                            |
| 17 | Sherrington Recording Drum          | 36 | Follin-WU-Tube                               |
| 18 | Haemocytometer with micropipette    | 37 | Artery Forcip                                |
| 19 | Stethoscope                         | 38 | Dissecting Microscope<br>bress parts labline |

#### **Department Achievements:**

- Poster Presentation on Pharmacogenomics- A new era in research studies. Presented at a National Level Seminar on “CNS Disorders” and Workshop on “Development of Zebra fish facility and handling of animals” Organized by Dr. L.H. Hiranadani College of Pharmacy, Ulhasnagar, Mumbai. Dated 7-8th September 2018.
- 2nd Prize winner- Poster Presentation on “Hepatoprotective activity of Mimosa Hamata wild plant” at Avishkar competition organized by “Solapur University, Solapur.” Dated 23-24<sup>th</sup> December 2018.
- Poster Presentation on “Formulation and Development of Antitussive Lozenges for pediatric patients” at Avishkar competition organized by “Solapur University, Solapur.” Dated 23-24<sup>th</sup> December 2018.
- 2nd Prize winner –Model Competition at State Level Poster and model presentation organized by “Rajaram bapu college of pharmacy, Kasegaon Dated 16th February 2019.
- Poster Presentation on “Artificial Intelligence” at State Level Poster and model presentation organized by “Rajaram bapu college of pharmacy, Kasegaon Dated 16th February 2019.

- First Prize winner- Mrs Naziya Khan bagged the first prize in teacher level (pursuing Ph. D.) category in Medicine and Pharmacy discipline in university level Avishkar 2019-20 hosted by Shri Sant Damaji Mahavidyalaya, Mangalwedha, Dist-Solapur, and Maharashtra.
- 02 research articles were published in National and International Pharmaceutical journals.
- Mrs. Tamboli Naziya Ashpak Secured 1<sup>st</sup> Rank in “Avishkar Competition held by P. A. H. Solapur University , Solapur for A.Y. 2019-20.
- Mrs. Tamboli N.A got the Bharat Gaurav Puraskar by KTK Outstanding Achievers & Education Foundation, Delhi in A.Y.21-22.
- Mrs. Naziya Ashpak Tamboli was awarded with Ph.D. in A.Y. 2021-22 in P. A.H.Solapur University, Solapur.
- Mr. Tejas Gaikwad ( D.PharmII<sup>nd</sup> year) secured the 1<sup>st</sup> Rank in State Level E-Poster Presentation Competition organized by Shri Sant Gajanan Maharaj College of Pharmacy, Buldana on 3<sup>rd</sup> Feb 2022.
- Mr. Tejas Gaikwad ( D.PharmII<sup>nd</sup> year) student got the 3<sup>rd</sup> Rank in State Level Online Podcast Making Competition on 28 Feb 2022, organized by VasantidaviPatil Institute of Pharmacy, Kodoli,Ta: Panhala, Kolapur.
- Dr. Tamboli N. A. got Purskar for the outstanding achievement in education field organized by Pragithak Vicharmunch, Isbahavi, Pandharpur in A.Y.2022-23.

### **Ongoing Research Activities:**

Phytochemical & Antihaemorrhoidal activity of Parkinsonism Acculata leaves.

Antihelmintic activity of non aqueous extract of Tectoniagrandislinn leaves.

Synthesis of silver nanoparticles using leaves of Cryptostegia grandiflora.

Evaluating medicines dispensing patterns at private community pharmacies in Sangola, India.