

## Efficacy studies and Toxicity testing

### Consultancy Services Offered:

Preclinical and Toxicological Evaluation in the following areas using Rats, Mice, Rabbit, Guinea Pigs and Hamsters:

- **Cardiovascular Diseases** – Hypertension, Atherosclerosis, Congestive Heart Failure.
- **Metabolic diseases** – Obesity, Diabetes mellitus, Diabetic complications – Neuropathy, nephropathy, retinopathy and diabetic wound models.
- **Neurodegenerative Disease models** – Alzheimer's, Parkinsonism, Huntington's disease.
- **Central and Peripheral nervous diseases:** Migraine, Anxiety, Depression, Sleep Disorders, Carpal Tunnel syndrome, stroke.
- **Asthma, COPD, Pulmonary Fibrosis and Allergic Diseases**
- **Arthritis:** Animal Models of Pain, Inflammation, Rheumatoid and osteo-arthritis.
- **Endocrinology** – Post menopausal complications-osteoporosis, androgenic and anabolic effect, reproductive pharmacology, Anti-fertility in male and female.
- **Cancer and Immunopharmacology**– Chemically induced cancer of oral, breast, benign prostatic hyperplasia and liver cancer models, immunostimulant and immunosuppression models.
- **Endurance and Sports Medicine**– Effect of compounds on physical endurance training, respiratory and cardiovascular effects.
- **Toxicity Studies** – Acute, Sub-acute and Chronic toxicity studies.
- **Pharmacokinetic and Bioavailability Studies**
- **Molecular Pharmacology** electrolyte analysis, enzyme analysis, ELISA and gene expression studies.
- **Ulcer, Diarrhea, Constipation, Diuretic, anti-urolithiatic models.**

### List of Sophisticated Equipments

- **Power-lab with 8-channel recorder** for ECG, Blood pressure, Tail skin Temperature probes.
- **Four Channel Biopac** for Cardiovascular studies.
- **Langendorff Apparatus** – for isolated cardiac tissue studies.
- **Whole Body Plethysmography** for respiratory and allergic studies.
- **Automated Inverted Phase separation microscope with Fluorescence** for molecular imaging and cancer studies.
- **Mazes** for Behavioural studies with **Video Tracking System**
- **PCR and Imaging Device.**
- **Animal Treadmill** with variant speed and elevation
- **Plethysmometer, Randall–sellitto apparatus, x-ray, von Frey apparatus** for inflammatory studies
- **Metabolic Cages**

### Consultancy Projects of Department of Pharmacology

Sr.No	Name of organization	Nature of work
1	Celista Pharmaceuticals Pvt. Ltd., USA	Pharmacokinetic and Pharmacodynamic effect of Formulations of Imiquimod.
2	Indus biotech PVT,LTD, Pune	Evaluation of the effect of INDUS1710 supplementation on muscle endurance.
3	Indus biotech PVT,LTD, Pune	Evaluation of effect of IND03 in Freund's complete adjuvant (FCA) induced chronic inflammation in Wistar rats.
4	Indus biotech PVT,LTD, Pune	Evaluation of effect of IND03 in Niacin induced hot flashes in Sprague Dawley rats
5	Indus biotech PVT,LTD, Pune	Evaluation of effect of IND03 on Post Menopausal Symptoms in Ovariectomized Sprague Dawley rats.
6	Indus biotech PVT,LTD, Pune	Evaluation of effect of INDMT in Chronic constriction injury (CCI) induced pain in Wistar rats.
7	Indus biotech PVT,LTD, Pune	Evaluation of INDCA on Chronic unpredictable mild stress induced depression and cognitive deficit in Sprague Dawley rats.
8	Indus biotech PVT,LTD, Pune	Evaluation of effect of intranasal administration of INDCA in nitroglycerine induced animal model of chronic migraine pain.
9	Green Chem Herbal Extracts and Formulations, Bangalore	Effect of test GC01 on Myocardial Infarction
10	Tuba herbal, Pune	Cardiovascular activity of herbal product 01110
11	Tuba herbal, Pune	Diuretic activity of 01786 in laboratory animals
12	Elder pharmaceutical , Mumbai	Acute oral toxicity of NGCP-922
13	Hygienic research institute, PVT LTD Mumbai	Sub acute oral toxicity of hair dye formulation as per OECD-407
14	Hygienic research institute, PVT LTD Mumbai	Acute oral toxicity of hair dye formulation as per OECD-425
15	Rasayani biologics PVT LTD,Pune	Pharmacokinetics study
16	Raj biotech	Anti-inflammatory activity
17	Raj biotech	Wound healing activity
18	Hygienic research institute, PVT LTD Mumbai	acute oral toxicity of hair dye formulation as per OECD

19	Indus biotech PVT,LTD, Pune	To study efficacy of Indus test drug in diabetic nephropathy in rats
20	Indus biotech PVT,LTD, Pune	Effect of ellagic acid on cholesterol in female wistar rats
21	Indus biotech PVT,LTD, Pune	Hypoglycemic activity of test drug in laboratory animals
22	Indus biotech PVT,LTD, Pune	Effect of Indus drug on IBD induced laboratory animals
23	Indus biotech PVT,LTD, Pune	Evaluation of plant extract for estrogenic activity in female rats
24	Indus biotech PVT,LTD, Pune	Involvement of 5HT1A receptor in antidepressant activity in INDCA using forced swim test
25	Indus biotech PVT,LTD, Pune	Hypertensive activity L-name induced hypertension
26	Indus biotech PVT,LTD, Pune	Anti-urolithic activity of IBH-B in rats.
27	Indus biotech PVT,LTD, Pune	Anabolic effect of FD and IBISND in castrated rats
28	Indus biotech PVT,LTD, Pune	Experimental glomerulonephritis in rats.
29	Indus biotech PVT,LTD, Pune	Rat anti- mouse Integrins antibody in BALB(c) mice
30	Indus biotech PVT,LTD, Pune	Antiparkinson activity in C57BL/6J mice
31	Indus biotech PVT,LTD, Pune	Effect on intracavernous pressure ,blood pressure and histology of testis
32	Indus biotech PVT,LTD, Pune	Experimentally induced and helicobacter pylori induced ulcer in laboratory animal
33	Indus biotech PVT,LTD, Pune	Anti-migraine activity in rats.
34	Indus biotech PVT,LTD, Pune	Antiparkinsonian activity of IBHC in rats.
35	Indus biotech PVT,LTD, Pune	Effect of IND in Mononeuropathy in rats