

## In vivo activities done in Biocyte institute of research and development lab Sangli 416416

CCSEA registration number:

Animals: Rat, Mice, Rabbit and Zebrafish

Parameters: Biochemical, Haematological, Histopathological, Cytokine estimation

### Models

| Sr. no. | Model   | Animal used             |
|---------|---|-------------------------|
|         | <b>ANTIDIABETIC MODELS</b>                    |                         |
| 1       | STZ induced type 1 Diabetes                   | Rat, Mice and Zebrafish |
| 2       | Alloxan induced type I diabetes model         |                         |
| 3       | Triton -X induced hyperlipedemia              | Rat,                    |
| 4       | STZ induced diabetic retinopathy              | Rat and Zebrafish       |
| 5       | STZ induced diabetic neuropathy               | Rat                     |
| 6       | HDF induced hyperlipedemia                    | Rat                     |
| 7       | Dexamethasone induced                         |                         |
| 8       | Anti-obesity activity                         |                         |
|         |   |                         |
|         | <b>ANTIARTHRITIS MODELS</b>                   |                         |
| 1       | Complete freund's induced arthritis           | Rat                     |
| 2       | Formaldehyde induced arthritis                |                         |
| 3       | MPA induced osteoporosis                      | Rat                     |
|         |   |                         |
|         | <b>SKIN RELATED DISORDER</b>                  |                         |
| 1       | Imiquimod induced Psoriasis                   | Mice                    |
| 2       | TPA induced osoriasis like lesions            | Mice                    |
| 3       | Peri scientific tail model                    | Mice                    |
| 4       | Wound healing activity by excision model      |                         |
| 5       | Dinitrofuobenzene induced                     |                         |
|         |   |                         |
|         | <b>ANTI-INFLAMMATORY ACTIVITY</b>             |                         |
| 1       | Carrageenan induced paw edema                 | Rat                     |
| 2       | Paclitaxel induced neuropathic pain           | Mice                    |
| 3       | Formalin induced writhing                     | Mice                    |
| 4       | Analgesic activity by using Hot plate method  | Rat, Mice               |
| 5       | Analgesic activity by using tail flick method | Rat, Mice               |
| 6       | Acetic acid induced writhing model            | Rat, Mice               |
| 7       | Antipyretic activity by brewers induced       | Rat, Mice               |
| 8       |   |                         |
|         |   |                         |
|         | <b>ANTIUIROLITHIASIS ACTIVITY</b>             |                         |
| 1       | Ethylene glycol induced nephrolithiasis       | Rat                     |
|         |   |                         |
|         | <b>GIT ACTIVITY</b>                           |                         |
| 1       | Pylorus ligation induced gastric ulceration   | Rat                     |
| 2       | Ethanol induced ulcer                         | Rat                     |
| 3       | Indomethacin induced ulcer                    | Rat                     |
| 4       | Laxative activity                             | Rat                     |
| 5       | Anti-haemorrhoids activity                    | Rat                     |

|   |  |                         |
|---|--|-------------------------|
| 6 | Aphrodisiac activity                                 | Rat                     |
|   |  |                         |
|   | <b>HEPATOPROTECTIVE ACTIVITY</b>                     |                         |
| 1 | Carbon tetrachloride induced hepatotoxicity          | Rat                     |
| 2 | Paracetamol induced hepatotoxicity                   | Rat                     |
| 3 | Thioacetamide induced                                | Rat                     |
| 4 | Isoniazid induced hepatotoxicity                     | Rat                     |
|   |  |                         |
|   | <b>ANTI-THYROID ACTIVITY</b>                         |                         |
| 1 | Carbimazole Induced                                  | Rat                     |
| 2 | Aminotriazole induced hypothyroidism                 | Rat                     |
|   | <b>CNS DISORDER</b>                                  |                         |
| 1 | Scopolamine induced memory impairment                | Rat, Mice and Zebrafish |
| 2 | Chronic unpredictable mild stress induced depression | Rats                    |
|   |  |                         |
|   | <b>HAEMATOLOGICAL DISORDER</b>                       |                         |
| 1 | Cyclophosphamide induced thrombocytopenia            | Mice                    |
| 2 | Phenyl hydrazine induced haemolytic anaemia          | Rat                     |
|   |  |                         |
|   | <b>Toxicity studies (OECD guidelines)</b>            |                         |
| 1 | Acute toxicity studies                               | Rat, Mice and Zebrafish |
| 2 | Subacute toxicity studies                            | Rat, Mice               |
| 3 | Acute dermal toxicity                                | Rat, Mice, Rabbits      |
| 4 | Skin irritation test                                 | Rat, Mice               |
|   |  |                         |
|   | <b>Pharmacokinetic studies</b>                       |                         |
| 1 | PK studies   | Rat, Rabbit             |
|   |  |                         |
|   | <b>Respiratory system</b>                            |                         |
| 1 | Anti-asthmatic activity                              | Rat, Mice               |
| 2 | Mast cell stabiliser activity                        | Rat, Mice               |
|   | <b>Anticancer activity</b>                           |                         |
| 1 | DMBA induced breast cancer                           | Rat, Mice               |
| 2 | DMH induced colon cancer                             | Rat, Mice               |
| 3 | DMBA induced skin cancer                             | Rat, Mice               |
| 4 | MNU induced breast cancer                            | Rat, Mice               |
|   |  |                         |