Chapter – 2

Aim
and
Objectives
The existing drugs can cure most of the diseases. Still there is never ending search for finding new drugs in the hope that they would yield drugs with lesser side effects and better therapeutic benefits than the existing drugs.

2. **Aim of the study:**

To study the fertility effect of *Cycas circinalis* L. (Cc) and *Ionidium suffruticosum* Ging. (Is) on the gonads of young male Wistar rats, senile (old) male Wistar rats and stress, alcohol, diabetes induced sterile male Wistar rats in comparison with a positive control and to find out the most effective herb which improves the fertility in male Wistar rats.

2.1. **Objectives of the study**

1. To investigate the phytochemicals of *Cycas circinalis* and *Ionidium suffruticosum*.
2. To evaluate the acute and subacute toxicity of *Cycas circinalis* and *Ionidium suffruticosum* in Wistar rats.
3. To compare the fertility effect of *Cycas circinalis* and *Ionidium suffruticosum* in young male Wistar rats.
4. To establish an experimental animal model by inducing sterility using alcohol administration in one group of animals, by immobilization stress in another group of animals and in the last group of animal model, diabetes was induced by administering streptozotocin, followed by oral infusion of *Cycas circinalis* and *Ionidium suffruticosum* extracts to evaluate the fertility effect followed by the restitution of fertility in all the experimental models.