

## SAFETY PHARMACOLOGY SERVICES



JOINN Laboratories has been engaged in safety pharmacology evaluations for almost 20 years. All study designs are based on the International Conference on Harmonization (ICH) Tripartite Guidelines (S7A, S7B) and NMPA regulations.

### Cardiovascular System

Conscious animal telemetry (*canines, mini pigs, NHPs*): ECG, blood pressure, body temperature & activity

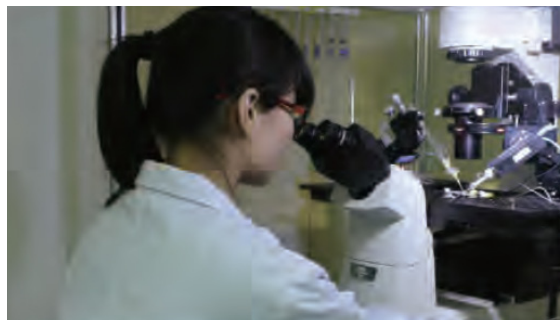
Anesthetized animals (*canines, NHPs*): ECG, blood pressure

Patch Clamp: hERG currents, sodium currents Nav1.5 & Cav1.2 currents recording

### Respiratory System

Conscious Animal (*canines, mini pigs, NHPs*): respiratory rate, tidal volume, ventilatory volume per minute

Rodent (*WBP model*): respiratory rate, tidal volume, ventilatory volume per minute



### Central Nervous System

Functional observation battery (*FOB, rats, mice, canines, NHPs*)

Locomotor activities of mice & rats (*video monitoring and analysis*)

Rota Rod test

Grip strength test

Body temperature

Gastrointestinal System

Gastric acid secretion and pH value in rats

Evaluation of gastrointestinal motor function in mice

Renal/Urinary System

Evaluation of kidney function in rats