

Making Physiology Happen

iWorx offers complete solutions for the teaching of neurobiology as well as advanced, high performance systems for research. The numerous “hands-on” experiments provide student involvement that enhances the overall learning experience.

Neurobiology Teaching Kit



**Step-by-step
instructions**



**45 labs
and 100+
exercises**



**Adaptable to
any lab
manual**



**Quick
setup**

Neurobiology Kits Include:

- TA Control Module with iWire-compatible Biopotential (ECG, EMG) Amplifier, Built-in Stimulator
- LabScribe™ Software
- Suction Electrode
- Patellar Reflex Hammer
- Intracellular Probe
- Goniometer
- Temperature Sensor
- Grip Force Sensor
- Event Marker
- Muscle Twitch Sensor
- Courseware
- Force Transducer
- Nerve Bath Chamber

Neurobiology Measurements:

- Membrane Potentials
- Action Potentials
- Muscle Contraction
- Frog ECG
- Mechano-reflexes and more...

The NBK-TA Neurobiology Teaching Kit includes everything you need to conduct a variety of lab experiments including: membrane potentials, action potentials, synapses, transmitters, and more.

Human Nerve:

- Auditory and Visual Reflexes
- Stretch Receptors and Reflexes
- Human Nerve Conduction Velocity
- Hand vs. Foot Reactions
- Hoffman Reflex using the Soleus Muscle
- Median Nerve Conduction Velocity
- The Six-Lead Electrocardiogram
- The Diving Reflex
- Heart Rate Variability (HRV)

Human Muscle:

- Grip Strength and Electromyogram (EMG) Activity
- Electromyogram Activity in Antagonistic Muscles
- EMG and Arm Wrestling
- Oculomotor Muscle Activity
- Response, Work, Summation and Tetanus in Human Muscle
- Kinesiology Targeted Muscles
- Human Muscle Twitch

Human PsychoPhysiology:

- Facial Expression Electromyograms
- Visual Evoked Potentials (VEP)
- Multisensory Reaction Times
- The Gaze Cue Paradigm
- Eriksen Flanker Test
- Posner Attention Test

Animal Nerve:

- Membrane Potentials
- Neuromuscular Studies
- Compound Action Potentials
- Action Potentials in Earthworm
- Cockroach Leg Mechanoreceptors
- Cockroach Cercal Sense Organs
- Crustacean Stretch Receptors
- Crustacean Neuromuscular Junction
- Neuromuscular Junction in Crayfish
- Crayfish Motor Nerve

Animal Muscle:

- Skeletal Muscle - Summation and Tetanus
- Heart Muscle
- Crayfish Heart
- Crayfish Gut Pharmacology