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Product Name :

Denoyer-Geppert 3-D Human Motor Neuron Model

Product Code :

SLE/A/152



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Description :

The **Denoyer-Geppert 3-D Human Motor Neuron Model** (Product Code: SLE/A/152) is a diorama that reproduces a motor nerve cell at more than 2,500 times life size against a colour backdrop of associated neurons, and follows its axon all the way to the neuromuscular junctionon a skeletal muscle. Physiology, neuroscience, pharmacology and sports-science departmentsuse it to connect nerve-cell structure with how muscles are made to contract. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a biology lab instruments supplier.

Specifications

Parameter	Detail
Magnification	More than 2,500× life size
Size	43 × 20 × 28 cm
Base	Mounted on a hardwood base
Format	Diorama: detailed motor nerve cell with a colour backdrop showing a network of associated neurons
Removable section	A section of the axon lifts off to show the layers of the myelin sheath, the neurolemma and the Schwann cell that formed them
Neuromuscular detail	Convergence of multiple axons into a motor nerve fiber, ending at the neuromuscular junction of a skeletal muscle, with synaptic vesicles carrying neurotransmitters
Other highlights	Cellular organelles, branching dendrites, communicating synapses, and a myelin-wrapped axon with node of Ranvier
Key	Illustrated key with 54 identified features

Typical Use

Most neuron models stop at the cell itself; this diorama carries the story through to its effect. Students can start with the dendrites and synapses receiving input, look at the organelles in the cell body, follow the myelinated axon past a node of Ranvier, and then see several axons converge into a motor nerve fiber that ends on skeletal muscle. Lifting away the axon section shows how the Schwann cell wraps the myelin layers and neurolemma around the fibre.

The synaptic vesicles at the neuromuscular junction make the model particularly useful in pharmacology lab equipment sets, where lecturers explain how neuromuscular blockers and related drugs act on transmission. With the 54-feature illustrated key, it also serves well for identification exercises in physiology practicals.

Supplier

This diorama is supplied through **Jain Scientific Equipments Private Limited**, the Ambala, Haryana company known to its customers as **ScienceLab**, which provides teaching models and lab ap nd on th

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