

Materials List for:

Early Metamorphic Insertion Technology for Insect Flight Behavior Monitoring

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Materials

Name	Company	Catalog Number	Comments
Coated stainless steel wire	A-M Systems	791900	0.008" bare, 0.011" coated, annealed
Flexible electrode wire			Litz or inductor wire can be used.
Surface-mount FFC connector	Hirose Connector	FH28E-20S-0.5SH(05)	
Tweezers	Grobet USA		Clean with 70% alcohol before use on the insect.
Kim-Wipes	Kimberly-Clark Worldwide	34155	Any size delicate-wipe tissues can be used.
Teflon tape			5 mm width Teflon tape.
Hypodermic Needle	Becton Dickinson & Co.	30511	20-30 G hypodermic needle can be used. Video showed 30 G.
Rigid fixation stick			Variety of materials can be used (e.g., coffee stirrers)
Insect emergence cage			Plastic pet cage lined with packing paper or similar padding. Ventilation holes are needed.
Thermal cauterizer	Advanced Meditech International	CH-HI CT2103 (tip)	Optional equipment used for application of dental wax.
Dental wax	Orthomechanics LC., Broken Arrow, Oklahoma		Optional material used for stabilizing the electrodes on the insect.
Magnetic levitation platform			Custom designed frame fabricated in-house with 3D prototyping.