



**OREGON STATE UNIVERSITY
REQUEST FOR QUOTE (RFQ)**

		ISSUE DATE:	04/18/16		
RFQ #	MA182026Q	RFQ DUE DATE:	04/22/16 @ 9:00 AM		
DELIVER TO:		DELIVER TO:			
DEPARTMENT:	OSU Vet Med	NAME:	Michele Andersen		
ADDRESS:	215 Dryden Hall	E-MAIL:	michele.andersen@oregonstate.edu		
CITY, STATE ZIP:	Corvallis, Oregon 97333	TELEPHONE:	541-737-3667		
REQUIRED DELIVERY DATE:	ASAP	FAX:	541-737-2170		
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
1	<p>MED64 Multi-electrode Array System Integrated 64-channel USB main and head amplifiers with 110V power supply and internal stimulator. Must be capable of recording a brain slice from 64 electrodes simultaneously. Must be able to record for days to weeks with a connector inside a humidified environment, such as an incubator. Electrodes must have low impedance of 7-10 kohms at 1 kHz, 0.8microV RMS noise level, P-P noise level at 6 microV Must have high capacitance electrodes such that we can stimulate through the same electrodes as used for recording.</p>	1	Unit		
	Unit Requirements	QTY			
	<p>MED64 Heated Connector with ThermoClamp controller Must be able to maintain slices at a constant temperature around 37°C while on a single electrode probe.</p>	1			
	<p>MED64 perfusion caps, including inlet and outlet pipes and reference wire with tubing Must be able to perfuse the slices with media and provide oxygenation to the media. Must be able to protect the slices and hold them in place on the electrodes.</p>	5			
	<p>MED64 Duet connector with extra top-unit, 2 sets of 20 pin cables, and 2 sets of test boards Must be able to connect MED64 basic system to 4 electrode probes for simultaneous recording from 4 brain slices at one time.</p>	2			
	<p>MED Quad II Probes: 16 of 50 µm electrodes per probe, 150µm distance, 10 mm height Must have probes that are reusable for multiple sessions, compatible with the MED64 system and MED64 Duet connector and allow for simultaneous recording of 4 brain slices at one time.</p>	10			
	Dual MED ThermoBase	1			

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	Must be able to simultaneously maintain slices at a constant temperature around 37°C while on the 4 separate electrode probes.				
	4-channel peristaltic pump & tubing Must have 10 Stainless steel rollers at each channel, must be able to perfuse the slices on 4 separate probes with large volume oxygenated media.	2			
	MED64 "Mobius" MEA software - Pro, complete package including EP & Spike sorter Must be able to control 1 to 4 probes independently or simultaneously, be able to program stimulations and record responses from the same electrodes, and be able to analyze field potential amplitudes and slopes and analyze spikes and be able to generate time course of field potential amplitudes and slopes during LTP experiments.	1			
	MED Controller - Dell Precision laptop Must be compatible with software and hardware of the MED system.	1			
	ValveLink8.2® Pinch Valve Perfusion System ValveLink8.2 controller = 8 solutions 8 Pinch Valves, mounting, cables Ringstand set, 8-into-1 manifold with flow control, 1/16" tubing, 8 60ml reservoirs or syringes Must be able to control the perfusion of up to 8 solutions and direct them into 1 to 4 probes. Must be able to handle low volumes of solution ≤ 60 mls.	1			
	Tygon vinyl tubing - 1/16" i.d. (per foot)	25 ft			
	Tygon vinyl tubing - 1/8" i.d. (per foot)	25 ft			
	Luer-lock valve fittings	4			
	Silicone pinch valve tubing - 1/32" i.d. x 1/16" o.d. (per foot)	2 ft			
	Deluxe Luer Kit – Polypropylene 25 different polypropylene tube fittings at up to 10 pieces each.	1			
	Deluxe Fitting Kit - Polypropylene - assortment of 45	1			
	MED64 probes with Platinum black Electrode	5			
	Installation (plug in) and training on site after the systems is delivered to the lab included.	1			
	Un-Regulated Perfusion Reservoir Gas Bubbler - 8 channel - for use with low-pressure gas supply Must be able to provide carboxygen (5% CO ₂ / 95% O ₂) gas to 1 to 8 different containers (e.g., solution reservoirs, brain slice keeper, vibratome) at the same time.	2			
	Bubbler stones - for carboxygenating the solutions and media	12			
	Brain Slice Keeper	1			



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	Must be able to separate 4 sets of brain slices and allow slices to be immersed in and perfused with oxygenated media.				
	Bulk case of 20 x 60ml Syringes Must be compatible with the pinch-valve perfusion system	1			
	Teflon® tubing - 1/16" o.d. (per foot)	10 FT			

Delivery is f.o.b. destination, prepaid and allowed. Shipping, freight and handling must be included in quoted prices. Additional costs for such are disallowed.

TOTAL

DELIVERY TIME AFTER RECEIPT OF ORDER:

PRICES VALID THROUGH:

SPECIAL INSTRUCTIONS:

1. Unless otherwise specified, all items quoted are to be new, unused and not remanufactured in any way.
2. Brand names are for the purpose of describing and establishing the characteristics desired and are not intended to limit or restrict competition. Quoters may submit quotes for substantially equivalent products unless the RFQ provides that a specific brand is necessary because of compatibility requirements, etc. All such brand substitutions shall be subject to approval by OSU.
3. Quoters must clearly identify all products quoted. Brand name and model or number must be shown.
4. Only documents issued as addenda by OSU serve to change the RFQ in any way.
5. OSU reserves the right to make the award by item, partial or whole lots, groups of items or entire quote, whichever is in the best interest of OSU.
6. OSU may reject any Quote not in compliance with the RFQ, attachments, and addenda, or if it is in the best interest of OSU.
7. This RFQ form must be completed, signed and returned with all required documents.

VENDOR INFORMATION:

COMPANY:

ADDRESS:

CITY, STATE, ZIP:

CONTACT NAME:

E-MAIL:

TELEPHONE:

FAX:

VENDOR SIGNATURE:

By signature below the undersigned certifies that they are authorized to act on behalf of the quoter and will comply with all aspects of the quote herein.

SIGNATURE:

NAME/TITLE:

This procurement is subject to the indicated Oregon State University Standard Terms and Conditions for: Goods Services Purchase Order Construction Software. The indicated terms and conditions may be viewed at <http://pacs.oregonstate.edu/terms-and-conditions>