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To: NCI Bid Board

From: Jennifer Mothershead
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Subject: NCI Bid Board Posting – The purpose of this acquisition is to acquire a 4-D nucleofector core unit.

The Mayer laboratory, a newly established lab in the EIB of the NCI, is requesting the purchase of the Lonza Nucleofector (4D model). Transfection is an essential technique applied to many fields of science. Reproducible results in some specific cell lines are not easily achieved in standard transfection setups. The Nucleofector technology, along with its library of pre-written and tested protocols for small-scale cells transfections, would allow us to attempt experiments not otherwise achievable with sensitive cell types.

The following product features/characteristics make this technology desirable to our research goals:

- Utilizes new electroporation-based transfection technique in specialized media that allows transfer and manipulation of DNA into the cell.
- Allows for transfection of sensitive cell types that are otherwise difficult or impossible to transfect through practical protocols.
- Automated system generates easily reproducible and accurate results.
- Shorter time-frame compared to standard transfections of eukaryotic material, which can take days.

Protocols already available describing transfection techniques and materials for many cell types using this system, meaning much of the optimization steps have already been done.

Sole Source Justification: There is only one vendor who manufactures this piece of equipment

Attached Documents:
SF18
FAR Clause 52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment.

FAR Clause 52.213-4 Simplified Acquisitions Terms and Conditions (AUG 2019) is applicable and available in full text upon request