Not applicable

A system for non-invasive preclinical ultrasound imaging

University Of Reading

F14: Notice for changes or additional information
Notice identifier: 2022/S 000-028752
Procurement identifier (OCID): ocds-h6vhtk-03749c
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Section I: Contracting authority/entity

I.1) Name and addresses

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Internet address(es)

Main address

www.reading.ac.uk/procurement

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

A system for non-invasive preclinical ultrasound imaging

Reference number

UOR/LAB/23/002

II.1.2) Main CPV code

- 38400000 - Instruments for checking physical characteristics

II.1.3) Type of contract

Supplies

II.1.4) Short description

For the purchase of a system for non-invasive preclinical ultrasound imaging. A single system is to be purchased that will permit visualisation of all of the following preclinical models:

• Mouse embryos and zebrafish at resolutions down to 30 µm using an ultra-high frequency transducer (up to 71 MHz).

• Mouse hearts and the vasculature in genetic and drug-induced models of disease at 30 µm resolution using a transducer of 30-40 MHz with a frame rate capable of imaging heart rates of up to 750 beats per minute. ECG-gating is also required for 3D reconstruction of the heart.

• Rat hearts and the vasculature in genetic and drug-induced models of disease (as detailed above for mice) using a transducer of ~29 MHz.

• Mouse or rat brains (requiring a lower frequency transducer of ~22 MHz).

Additional capability is required for upgrading for imaging of pig hearts and the vasculature (requires low frequency transducers of 4-10 MHz) and for photoacoustic imaging.

The system must have the following provision:

• Integrated physiology traces for small animals, including display of ECG, respiration waveform, and body temperature.

• Capability for capturing B-mode and M-mode images, and for analysis of the images to provide data on cardiac and vascular function and dimensions in the above preclinical models (including strain and speckle-tracking).

• Capability for Power Doppler, Pulsed-Wave Doppler, Pulsed-Wave tissue Doppler and colour Doppler for assessment of blood flow.

• Capability for contrast imaging.

The University has published this VEAT notice and intends to award a contract to FUJIFILM Visualsonics Inc. following the expiry of 10 full calendar days after the expiry of this notice.

Section VI. Complementary information

VI.6) Original notice reference

Notice number: 2022/S 000-028507

Section VII. Changes

VII.1) Information to be changed or added

VII.2) Other additional information

This VEAT notice can only be awarded is subject to receiving grant funding. If grant funding is not awarded, then we will not proceed with this requirement.