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Award

## **Supply and Installation of PhysioMimix OOC Multi-OrganFull System**

THE UNIVERSITY OF BIRMINGHAM

UK5: Transparency notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-034566

Procurement identifier (OCID): ocids-h6vhtk-05522d

Published 24 June 2025, 9:10am

### **Scope**

### **Reference**

SC13833/25

### **Description**

The PhysioMimix® Multi-Tissue System is particularly well suited for use in a core facility (Birmingham Tissue Analytics), where flexibility and broad applicability are key. Its modular design allows different organ models to be easily configured and reconfigured to suit a range of project needs-from single-organ toxicity studies to multi-organ interaction and disease modelling. With standardized protocols and user-friendly operation, it supports consistent, high-quality data generation across diverse applications, making it an efficient and adaptable platform for multiple research groups and project types.

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## **Contract 1**

### **Supplier**

- CN Bio Innovations Limited

### **Contract value**

- £298,045 excluding VAT
- £298,045 including VAT

Above the relevant threshold

### **Earliest date the contract will be signed**

24 June 2025

### **Contract dates (estimated)**

- 2 July 2025 to 28 May 2026
- 10 months, 27 days

### **Main procurement category**

Works

### **CPV classifications**

- 45214630 - Scientific installations

## **Contract locations**

- UK - United Kingdom

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## **Participation**

### **Particular suitability**

Small and medium-sized enterprises (SME)

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## **Other information**

### **Conflicts assessment prepared/revised**

Yes

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## **Procedure**

### **Procedure type**

Direct award

## Direct award justification

### Extreme and unavoidable urgency

The PhysioMimix® Multi-Tissue System offers a highly advanced, solution for modelling systemic human biology in vitro. By enabling the dynamic co-culture of multiple organ models-such as liver, gut, and lung-within a single, perfused microphysiological system, it provides a unique opportunity to assess inter-organ interactions, drug metabolism, distribution, and toxicity in a more integrated and human-relevant context. Product features include an open-well consumable plate design, media is pneumatically pumped recirculated through microfluidics within these plates to perfuse tissue cultures. Modular PhysioMimix® hardware consists of a Controller, Docking Station(s), and MPS driver(s), and consumable plates controlled via proprietary software. This is underpinned by patents exclusively licensed from MIT to CN Bio.

This system is particularly valuable for studying drug pharmacokinetics and pharmacodynamics (PK/PD) across tissues, evaluating how metabolites formed in one organ (e.g., liver) influence the function or toxicity of others. Such capability is crucial for understanding off-target effects, bioactivation pathways, and multi-organ toxicity that are often missed in single-organ or animal models.

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## Supplier

### CN Bio Innovations Limited

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Cambridge

CB4 0WN

United Kingdom

Email: [adrian.rea@cn-bio.com](mailto:adrian.rea@cn-bio.com)

Region: UKH12 - Cambridgeshire CC

Small or medium-sized enterprise (SME): Yes

Voluntary, community or social enterprise (VCSE): No

Contract 1

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## Contracting authority

### THE UNIVERSITY OF BIRMINGHAM

- Companies House: RC000645
- Public Procurement Organisation Number: PHCQ-3464-LVTM

Edgbaston

Birmingham

B15 2TT

United Kingdom

Email: [procurement@bham.ac.uk](mailto:procurement@bham.ac.uk)

Website: <http://www.birmingham.ac.uk>

Region: UKG31 - Birmingham

Organisation type: Public authority - sub-central government