

Core Facility Service Request

Instrument Booking & Sample Analysis Order

Nexa

Core Research Facilities

Building 4, Instrumentation Wing
core-facility@nexa-research.org

REQUEST ID
NCF-2026-03411

DATE SUBMITTED
03 Mar 2026

Requestor & Account Information

Principal Investigator: _____ Dr. Helena Marsh Requestor (if different): _____ Owen Prichard
Department / Group: _____ Structural Biology, Vertex Institute Lab room / building: _____ Rm 214, Meridian Hall
Email: _____ owen.prichard@vertex-inst.edu Phone ext.: _____ x4471
Billing account code: _____ VX-STB-2231-A PO / grant reference: _____ NIH R01-GM-88214

Instrument & Service Selection

Instrument / Service	Est. time	Rate (internal)
☒ Cryo-TEM (Nimbus Titan G3), single-particle grid screening	3 h	\$85/h
☐ Confocal microscopy (Apex LSM 980), z-stack acquisition	2 h	\$60/h
☒ Mass spectrometry (Synapse Q-TOF), intact protein profiling	1.5 h	\$95/session
☐ Flow cytometry (Meridian Aurora CS), 5-laser panel sort	2 h	\$70/h
☐ X-ray diffractometer (Vertex D8), powder pattern collection	1 h	\$40/h
☐ NMR spectrometer (Apex 600 MHz), ¹ H/ ¹³ C acquisition	1 h	\$55/h
☐ Next-gen sequencing (Nimbus NovaFlow), RNA-seq run	—	\$310/lane
☐ Other (specify below): _____		

Sample Details

ID	Description	Qty
S-1	Purified Rab7a construct, His-tagged, 2.1 mg/mL	6
S-2	Negative-stain grid, apoferritin control	2
S-3	PBMC suspension, donor batch NX-778, 1×10 ⁶ /mL	4
S-4	Crystallization drop, condition C9, cryo-loop mounted	3
Sample matrix: _____ aqueous buffer, 20 mM HEPES pH 7.4		
Hazard classification: ☐ None ☒ Biosafety L2 ☐ Radioactive		
☐ Chemical		
Special handling / storage: _____ store at 4°C, do not freeze		

Turnaround

☐ **Standard** — 10 business days
no surcharge
☒ **Priority** — 5 business days
+35% surcharge
☐ **Rush** — 48 hours
+75% surcharge, PI approval req.

Preferred slot:
Wk of 09 Mar, AM

⚠ Facility staff will contact requestor within 1 business day to confirm booking and instrument availability.

Analysis Requirements & Notes

Requesting particle-picking and initial 2D classification on cryo-TEM dataset (S-2 control first, then S-1 production grids). For mass spec run, please use intact-mass method MS-INT-07 with internal calibrant; export raw .d files alongside processed deconvolution spectra. Flow cytometry panel requires unmixing against the facility's Meridian Aurora spectral reference library — panel design attached separately as VX-panel-778.pdf. Please notify requestor of any compensation control substitutions.

Authorization

Requestor signature: _____ Date: _____
PI / budget approver signature: _____ Date: _____
Facility manager (office use): _____ Date: _____

Approval authorizes billing account **VX-STB-2231-A** for charges incurred under this request, subject to the current Nexa Core Facilities rate schedule. Cancellations within 24 h of a confirmed slot may incur a \$50 no-show fee.