HLTRP Stem Cell Core Facility × Thermo Fisher Scientific
Luminex Multiplexing Innovation Awards 2026
Guidelines

Overview

The Healthy Longevity Translational Research Programme (HLTRP) Stem Cell Core Facility (SCCF), in partnership with Thermo Fisher Scientific, is launching the Luminex Multiplexing Innovation Awards 2026. The objective of this call is to support researchers across NUS, NUHS, and affiliated institutes in conducting pilot studies that utilise **Luminex ProcartaPlex multiplex immunoassays** for quantitative protein profiling.

This initiative aims to

- Promote the adoption of multiplex proteomics within the research community,
- Facilitate custom panel development tailored to specific scientific questions,
- Generate preliminary data that may support future publications and external grant applications.

Up to **five grant awards** will be offered.

Eligibility

- Open to researchers from **NUS, NUHS, and collaborating research institutions (such as Duke-NUS)**
- Faculty, research fellows, research assistants/associates, and postgraduate students are eligible to apply.
- Students, RAs and postdocs must include a **supervising Principal Investigator** who will oversee the project.
- Projects must be feasible and completed within **12 months**, including assay execution and data analysis.
- **Ethics approval** (if applicable) must be in place or pending at submission.
- Samples must be **compatible with Luminex ProcartaPlex assays**, including biofluids such as serum, plasma, cell culture supernatants, urine, CSF, saliva or tissue lysates.
- Pilot studies based on novel ideas are strongly encouraged, although extensions of existing projects will also be considered.

Award details

Support may include one or more of the following:

- **Custom ProcartaPlex multiplex assay kit**, with final analyte design refined jointly with HLTRP SCCF and Thermo Fisher Scientific following technical feasibility checks.
- **Full-service Luminex support** through HLTRP SCCF, including project consultation, assay design assistance, sample preparation guidance, plate setup, Luminex reading runs, and basic data analysis.
- **Supervised hands-on training** for awardees in multiplexing workflows and plate preparation

Note: This is a material and technical support grant award, not a monetary grant.

Proposal Submission

- Applicants must submit the **Application Template** and a **2-page scientific proposal**.
- Submissions are **limited to one application per applicant**
- The proposal should cover:
  - Background, hypothesis, and aims
  - Study approach

  - Sample type(s), number of samples per group, total sample count
  - Sample readiness (collected/not collected) and ethics status
  - Opportunities and limitations
  - Future plans
  - Key milestones and project timeline (must be completed within 12 months)
  - Expected deliverables (e.g. preliminary findings, brief presentation, follow-up plans)
- A reference list may be appended and does not count toward the 2-page limit.

- Application submission:
  - via email to HealthyLongevtity@nus.edu.sg
  - Subject line: Luminex Multiplexing Innovation Awards 2026 – Application
  - Application period: 15 January – 26 February 2026 with deadline: 26 February 2026, 11:59 PM SGT
  - Late or incomplete submissions will not be considered

Evaluation Process

Proposals will be assessed based on:

- **Scientific merit**
- **Novelty and innovation**
- **Feasibility** of project design, sample readiness, ethics status, and timeline
- **Appropriateness of Luminex multiplexing** for the research aims (technical suitability)
- **Potential impact**, including the likelihood of generating preliminary data that supports future research outputs

Reviewers:

- HLTRP scientific faculty
- Thermo Fisher Scientific scientific representatives

Awardees will be selected based on overall quality, potential for impact, novelty, feasibility, and alignment with the goals of this initiative.

Award Notification

- Successful applicants will be notified by **early April 2026**.
- A project initiation meeting will be arranged with HLTRP SCCF and Thermo Fisher Scientific to:
  - finalise the multiplex panel (if applicable),
  - confirm technical feasibility,
  - discuss sample preparation and scheduling,
  - outline expected milestones and deliverables.

Award Requirements and Final Report

- Projects must commence within **three months** of award notification
- Experimental part of the project must be finalized within **10 months** of award notification
- All projects must be completed within the **12-month award duration**
- Awardees must provide a **brief summary of findings** or a **short presentation** upon project completion.
- Awardees will be invited to present outcomes at a joint **HLTRP–Thermo Fisher Scientific seminar or poster session**.
- All outputs derived from the awarded project must acknowledge the **HLTRP SCCF and Thermo Fisher Scientific.**
- All data generated under the project belong to the applicant's research group in accordance with institutional policies.

Additional Notes

- HLTRP SCCF may recommend adjustments to sample preparation, dilution factors, or plate layout to ensure assay quality.
- Final assay configuration will depend on technical feasibility assessed jointly by HLTRP SCCF and Thermo Fisher Scientific.
- Applicants are responsible for ensuring compliance with biosafety and sample management requirements.