

Cincinnati Children's-Technion Bridge to Next-Gen Medicine Joint Research Proposals

We are pleased to announce the call for proposals to the **Cincinnati Children's-Technion Bridge to Next-Gen Medicine** for using computational approaches to accelerate scientific discovery and translation into clinical care. This partnership seeks to pair CCHMC investigators with investigators at the Technion in Israel to foster new research using data-driven or AI techniques in basic or translational research, innovative clinical testing, cellular therapies and genomic medicine.

About CCHMC: *Cincinnati Children's is a distinguished pediatric medical center in the United States. Consistently ranked among the top three pediatric hospitals in U.S. News & World Report, the medical center is recognized globally for excellence in patient care, training, education and research.*

About Technion: *Since its founding in 1912, the Technion–Israel Institute of Technology has been Israel's primary source of technological manpower and the nation's largest comprehensive academic center for advanced science, technology education and applied research.*

We invite CCHMC and Technion faculty to jointly submit applications for research grants that leverage synergies between the two institutions and engage trainees at all levels of career development. Grants will be evaluated on how they enable the use of computational approaches, including big data, machine learning and artificial intelligence; ability to address an important problem or a critical barrier to progress in the fields of basic or translational research, data science, bioinformatics, and its applications to health care; and the potential to secure ongoing external funding from sources such as, but not limited to, NIH, US-Israel Binational Science Foundation, and Europe's Framework Programme.

Collaborative Research Grants - \$80,000 - \$100,000 for one year

Eligibility: Faculty who have a collaborative project between CCHMC and Technion investigators. Evaluation criteria: High scientific merit, the potential to leverage untapped synergies between the two institutions, and a high likelihood of converting this seed support into substantial external funding.

Budget: Can include staff salary, research expenses, and travel between labs for faculty engaged in the project. *Please note, due to restrictions on the donor funds received for the grants, they will be awarded with up to 60% of the allocation at CCHMC and up to 40% at the Technion.*

Deadlines:

Email documenting an **intent to apply** (form below): January 20, 2025

Submission of **full proposal**: January 30, 2025

Project Proposal, Timeline and Budget: Each project will be supported for one year, with an expectation to present progress in Fall 2025 together with other awardees in a joint workshop. NIH R03 format (<https://grants.nih.gov/grants/funding/r03.htm>) should be followed; up to 3 pages of Research Strategy, including a section on synergies and complementary expertise.

Questions? please send an email to Evpr.researchsec@technion.ac.il

**Cincinnati Children's-Technion Bridge to Next-Gen Medicine
Joint Research Grant Application:**

INTENT TO APPLY

Collaborative Research Award	
Full name, title, affiliation and address of American researcher:	
Full name, title, affiliation and address of Israeli researcher:	
Areas of expertise:	
Address, email and telephone contact details of American researcher:	
Address, email and telephone contact details of Israeli researcher:	

FULL APPLICATION

Abstract: *(Limit 1 page)*

Research Plan: *(Limit 3 pages, including specific aims page and preliminary data, but not including budget, resources, CVs, and references)*

Please follow the NIH R03 application format and include:

- *Brief scientific and technological background*
- *Objectives and expected significance*
- *Description of synergies between the two research groups and how you will capitalize on them*
- *How you will enable the use of advanced technologies, big data, machine learning and artificial intelligence to advance biomedicine or new approaches to clinical care*
- *Description of methods and research plan*
- *Mode of collaboration and demonstration of existing or planned collaboration, whereby each side provides value through unique areas only accessible in their home countries.*
- *Potential to receive external grant funding, such as Europe's Framework Program of Research, NIH and US/Israel Bi-National Science Foundation*
- *Available resources and their complementarity*
- *Bibliography*

Budget Requested:

Item Requested	Description of Item	Budget Amount

Explanation of How Budget Will be Utilized:

Explanation of Engagement of Trainees and Participating Faculty in the Project:

Each Investigator's Biosketch or Curriculum Vitae

Each Investigator's Publication List (limit to top 10 relevant papers)

Please submit the full application by January 30, 2025, to Evpr.researchsec@technion.ac.il