IMAGINE, INNOVATE, AND IMPACT (I^3)
RAPID RFP: EMORY SOM/GEORGIA TECH COMPUTATIONAL AND DATA ANALYSIS TO ADVANCE SINGLE CELL BIOLOGY RESEARCH AWARDS

I^3 Rapid RFP- EMORY SOM/GEORGIA TECH COMPUTATIONAL AND DATA ANALYSIS TO ADVANCE SINGLE CELL BIOLOGY RESEARCH AWARDS: The Dean of the Emory School of Medicine (SOM) and the Executive Vice President of Research (EVPR) of Georgia Tech are soliciting proposals to advance the state-of-the-art of computational/data analytics designed to advance single cell biology. Research proposals may address a wide range of topics, including the development of novel single cell analytical approaches, algorithms for standardizing and batch correcting data, integration of multi-dimensional single cell omics, and devising cellular and gene communication networks. These awards are intended to support highly innovative projects in their early phases of development. The awards will be administered through the Emory SOM Imagine, Innovate, and Impact (I^3) awards program (on the Emory side) and the Georgia Tech Institute for Data Engineering and Science (on the Georgia Tech side) with funding support provided by both the SOM Dean and Georgia Tech EVPR.

- Projects must focus on developing computational and data analysis approaches to advance single-cell biology/medicine. Funds will not support proposed experimental research for Georgia Tech PIs. Funds will also not support repurposing of existing analytical approaches on single cell data.
- Teams must include both Georgia Tech and Emory Investigators
    - $25,000 will be awarded to each Institute Investigator per project
    - Note that Georgia Tech funds must be spent between 1/1/2022 and 6/30/2022
- Ideally, the project should include collaborations with experimentalists and nucleate new partnerships, with plans to apply for external funding.

Funding Availability –

- **I^3 RAPID RFP-EMORY SOM/GEORGIA TECH COMPUTATIONAL AND DATA ANALYSIS TO ADVANCE SINGLE CELL BIOLOGY RESEARCH AWARDS:** A total of up to $150,000 is expected to be awarded this round. **Awards will be made in $25,000 increments, up to $50,000** in total direct costs. Funding will be split evenly between Emory SOM and Georgia Tech; each total budget should be **rounded off to $25,000.**

Eligibility – I^3 RAPID RFP-EMORY SOM/GEORGIA TECH COMPUTATIONAL AND DATA ANALYSIS TO ADVANCE SINGLE CELL BIOLOGY RESEARCH AWARDS:

- At least one Emory SOM Faculty PI and one Georgia Tech Faculty PI
- Emory SOM faculty PI must have a primary appointment in the Emory SOM at the rank of Assistant Professor or above at an FTE of 0.5 or higher
- Georgia Tech faculty PI must be appointed at the rank of Assistant Professor or above at Georgia Tech at an FTE of 0.5 or higher

- Cannot be duplicative of current funding at the time of award
- Faculty may participate in more than one proposal and may serve as PI on more than one proposal
- No sub-contracts are permitted

Timeline
11/1/21 – RFP released
11/29/21 – Proposals due by 5:00 pm
12/17/21 – Applicant award notification
1/1/22 – Project start date
6/30/22 – Project end date at Georgia Tech (No Cost Extensions are not allowed for this grant round.)
12/31/22-Project end date at Emory (No Cost Extensions are not allowed for this grant round.)

Application Information
Applicants should submit the following materials using the online application **no later than 5:00 p.m. (no exceptions) on 11/29/21.**

The online application must be completed in one sitting, so it is recommended that applicants gather the information/documents below before beginning the application.

- Title of the proposal/innovation
- Category: I^3 Rapid RFP-Emory SOM/Georgia Tech Computational and Data Analysis to Advance Single Cell Biology
- Length of project: 6 months (Georgia Tech); 1 year (Emory)
- Does your project involve investigators from more than Emory and Georgia Tech? (Yes or No)
- Emory SOM PI name, credentials, title, and department/division
- Georgia Tech PI name, credentials, title, and department/division
- If applicable, Co-PI(s) name, credentials, title, and department/division
- Co-Investigators' names, credentials, titles, and departments/divisions
- Summary/Abstract (*150 words maximum*)
- Attachments (*see below*)

Attachments – Each of the following items should be uploaded as a single PDF document following this naming convention: PI last name.first name.I3EmorySOMGeorgiaTechSingleCell.pdf
- Example: Hill.Beth.I3EmorySOMGeorgiaTechSingleCell.pdf
- If a PI is on more than one grant, use Doe.John1 and Doe.John2 to identify each grant

The single PDF must include, in this order:
- **Title page** with name of individuals designated as PIs and list of co-PI(s); must include signatures of the PIs and the Chairs of the PIs departments (to indicate approval of the proposal). Signature from the co-PI's Department Chair is optional. Note that proposals will not be accepted after the deadline due to a delay in obtaining signatures. *(maximum of 1 page)*
- **Proposal** (*3 page limit*) should follow NIH formatting standards (https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/format-attachments.htm) and contain the following items:
    - **Abstract** (*150-word limit)*
    - **Specific Aims** (*750-word limit)*

    - **Innovation** (*500-word limit*)
    - **Team Description** (*300-word limit*)
    - **Proposed Research** (1500-word limit)
- **Brief explanation of how the innovation will meet each of the I^3 criteria:** *(1 page)* 1) magnitude of impact if project were to succeed 2) benefits of, and need for collaboration; 3)time to impact (preference given to projects with well-defined time plans and with early and clear go-no-go points); 4) creativity and novelty of the idea/approach; 5) PI qualifications and team readiness; 6) feasibility of carrying out the proposed project; 7) chances of a successful outcome; 8) potential to generate extramural funding (include aims of the planned extramural grant; a timeline for submission; and the agencies from which funding will be sought)
- **NIH Detailed Budget** (Form Page 4).
    - NIH Downloadable Instructions and Form Files can be found here: https://grants.nih.gov/grants/funding/phs398/phs398.html. Two separate budgets are required (One for Emory and one for Georgia Tech) Max total budget is $50,000, rounded off to $25,000 per institution. Each budget should include the items below:
    - Dollar amount requested
    - Breakdown of budget (personnel and supplies) with dollar amounts for each.
    - Faculty salary support is limited to 10% of the total budget. Salary support for administrative support is not appropriate. Funds may be requested for salaries for study staff, students, post-doctoral fellows, and other study-related personnel.
    - Tuition is not allowed on I^3 Awards; however graduate student stipends are allowed.
- **Budget Justification** (500-word limit)
- **References** (2-page limit)
- **NIH Formatted Biosketches** for all Key Persons. NIH Biosketch Format Pages, Instructions and Samples can be found here: https://grants.nih.gov/grants/forms/biosketch.htm

Application formatting:

- Use paper size no larger than 8 ½" x 11”
- Provide at least one-half inch margins (top, bottom, left, and right) for all pages
- Font size must be 11 points or larger (smaller text in figures, graphs, diagrams, and charts is acceptable as long as it is legible when the page is viewed at 100%)
- Text color must be black (color text in figures, graphs, diagrams, charts, tables, footnotes, and headings is acceptable)
- The following fonts are acceptable: Arial and Calibri

Review and Award Process-The following Review Criteria will be used to score proposals:

- Magnitude of impact if project were to succeed
- Benefits of, and need for collaboration
- Time to impact (preference given to projects with well-defined time plans and with early and clear go-no-go points)
- Creativity and novelty of the idea/approach
- PI qualifications and team readiness
- Feasibility of carrying out the proposed project
- Chances of a successful outcome
- Potential to generate extramural funding (include aims of the planned extramural grant; a timeline for submission; and the agencies from which funding will be sought)

Progress Reports
Return on Investment (publications, patents, presentations, grant awards, etc.) will be tracked. Awardees are required to submit three scientific progress reports per year.

Awardees are required to submit brief annual progress reports for 5 years following completion of the funded award to state progress on the following metrics: publications, external grant funding, and/or further projects stemming from the award, and replication of project at Emory or elsewhere.

Financial Reports
The Emory SOM PI's department is responsible for financial management of I^3 awards. The PI and the PI's Department (not SOM) are responsible for reconciling project accounts as non-sponsored funds.

The Georgia Tech PI's school or department is responsible for financial management of I^3 awards for reconciling project accounts as non-sponsored funds.

Citation Requirements
Awardees are required to cite institutional support of the Emory SOM and the Georgia CTSA NIH award number (**UL1-TR002378**) on all products (publications, patents, presentations) resulting from this award.

For content questions related to the I^3 Award programs, please contact:
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