

Chan Zuckerberg Initiative: Visual Proteomics Imaging

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Website: <https://chanzuckerberg.com/rfa/single-cell-pediatrics/>

Submission Limitations: None

Foundation LOI Deadline: **March 30, 2021, 9:00 PM (ET)**

Please contact Connor Cook to inform them of your intent to submit

The Chan Zuckerberg Initiative invites applications for three-year collaborative projects for the generation of healthy, single-cell reference data from pediatric tissue samples for the Human Cell Atlas (HCA). [Follow this link to see the full funding RFA.](#)

Overview

The Human Cell Atlas (HCA) is a global effort to create a reference map of all cell types in the healthy human body in order to generate a fundamental reference for biomedical research and improve our understanding of health and disease. With advances in single-cell biology technology and growing interest from the international community, this scientific grassroots project has progressed from conceivable to feasible. Progress over the past several years has resulted in remarkable advancement toward first drafts of many adult organs and tissues. However, similar reference data for pediatric tissues is less commonly represented in emerging tissue atlases. Yet this data is critically important for clarifying cellular maturation through childhood while building a foundation for understanding disease progression and therapeutic strategies in children. This Request for Applications (RFA) welcomes proposals that will make significant contributions toward single-cell reference data for the community of patients, clinicians, and researchers engaged in pediatric research. This opportunity is intended to support active collaborative teams of researchers that have access to established resources and protocols that are ready to be extended and scaled. The opportunity is also intended to support new collaborative teams that will benefit from the experience of existing teams while bringing complementary and differentiated perspectives and resources. The opportunity aims to support a variety of collaborative teams that will all make contributions to the larger community via regular engagement and sharing of learnings, data, samples, and other resources.

ELIGIBILITY ● This opportunity is focused on better understanding early life, including periods of infancy, juvenile, and early adolescent ages. Applications examining prenatal and fetal development are not eligible for this opportunity, nor are applications proposing sampling of adult tissues (greater than 18 years of age). ● Applications may be submitted by domestic and foreign nonprofit organizations, public and private institutions, such as colleges, universities, hospitals, laboratories, units of state and local government, and eligible agencies of the federal government. For-profit organizations are not eligible to apply. All grants will be awarded to institutions, not individuals. ● Organizations may be based in any country. ● There may be more than one application submitted by each organization. ● Each application should designate one Principal Investigator (PI) as the Coordinating Principal Investigator (Coordinating PI). The Coordinating PI will act as the administrative contact between CZI and all PIs on the grant (Co-PIs). The Coordinating PI must submit the application on behalf of all PIs. The Coordinating PI must be affiliated with the institution submitting the application, and grant funds will be awarded to that institution, which will take responsibility for distributing funds to any other institutions. Note that institutions outside the U.S. may not subcontract to U.S. institutions, so please be mindful when selecting the Coordinating PI/institution. ● Each application must have a minimum of three PIs (one Coordinating PI and two Co-PIs), but may designate up to 10 total PIs (one Coordinating PI and up to nine Co-PIs). If your application proposes more than 10 PIs, please contact sciencegrants@chanzuckerberg.com to explain and discuss how to submit the application. ● Principal Investigators may only serve as Coordinating Principal Investigator on one application. ● Principal Investigators may apply to join multiple Pediatric Networks applications, but will only be funded in a single final team. Should teams with overlapping PIs be selected as finalists, the teams will be asked to revise the members of their team such that each PI is only funded as a Coordinating PI or Co-PI on a single project. Collaboration and participation in multiple projects is allowed, but funding will be restricted to one project per PI. January 2021 | Page 4 ● At least one Principal Investigator of the team must be a computational biologist or data scientist, and at least one Principal Investigator of the team must be a pediatrician actively engaged in direct patient care. The team is required to put forward a community engagement plan and is encouraged to include community-engaged researchers as PIs.

Collaborative networks with more than five PIs must include a community-engaged researcher as a PI to help ensure that the goals of the community engagement plan are met. ● PIs/Co-PIs on one application may be employed at the same or at different institutions. ● This funding opportunity aims to bring together collaborative teams with diverse expertise. The goal of understanding pediatric tissues at cellular resolution will benefit from diverse technical, social, and clinical expertise. Key areas of expertise are likely to come from individuals with deep knowledge and experiences that are not typically reflected in research proposals. We encourage this engagement and do not require a track record of funding or output in traditional academic research to be eligible. ○ PIs and Co-PIs must each be permitted to receive grant support by their institution. This criteria may be defined differently in different types of organizations. Examples of eligible positions are: ■ Tenure track faculty; ■ Non-tenure track faculty or staff scientists who lead a lab or are engaged in academic activities and are permitted to apply for grants by their institution; ■ Clinical teaching faculty, nurses, or researchers with expertise in community-based participatory research that are affiliated with or supported by an institution; and ■ Researchers, advocates, and clinicians that hold roles at non-academic institutions who are permitted to apply for grants by their institution. ■ Postdoctoral fellows are not eligible to apply in their current roles, unless they will begin a new position by the time of grant start date (October 2021) and apply through the institution at which they will conduct the research. ● Community-engaged researchers and pediatricians are strongly encouraged to serve as coordinating PIs for these networks. ● Early-career investigators are strongly encouraged to apply as Coordinating PIs as well as Co-PIs. ● Women and historically underrepresented racial and ethnic groups are strongly encouraged to apply.

How to Apply

The Office of Foundation Relations will assist all applicants with CZI's online grants management portal at <https://apply.chanzuckerberg.com>.

Application Specifics:

- Eligibility: Please refer to the RFA announcement.
- Award Period: Proposed projects should be three years in duration with a projected start date no earlier than October 1, 2021. Actual start date may vary.
- Award amount: Because hardware, software, and protocol development projects that may be supported by this RFA likely require different resourcing levels, a budget limit has not been set on a per project basis. Award amounts will be project specific.
- Budgets for Full Applications will be evaluated for appropriateness relative to the scope of work proposed. Indirect costs cannot exceed 15% of direct costs.
 - Number of Principal Investigators (PI and Co-PIs): Each application should have a minimum of one PI, but may designate up to three total PIs (one Coordinating Principal Investigator and up to two Co-Principal Investigators (Co-PIs)).
- Institutional sign-off is required.

Key Dates

January 19, 2021: Application portal opens

March 30, 2021: Applications due by 5 p.m. Pacific Time

July 13 - July 21, 2021: Video call interviews of finalists

August 2021: Earliest notification of decisions (subject to change)

October 1, 2021: Earliest start date of award period (subject to change)

Funding

Award amounts will be project specific. Budgets for Full Applications will be evaluated for appropriateness relative to the scope of work proposed. Indirect costs cannot exceed 15% of direct costs.

Please contact Office of Foundation Relations and work with Connor Cook (connor.cook@emory.edu) on all submissions.