

-ตรวจสอบ+ARC-

งานบริหารงานวิจัยและนวัตกรรม
เลขที่รับ 520
วันที่ 28/06/65
เวลา



รหัสเพิ่ม.....
เก็บเอกสารถึงปี พ.ศ.....
คณะเภสัชศาสตร์
เลขที่รับ 3429
วันที่ 24 มิ.ย. 2565
เวลา 13:49 น.
MUSIS ✓

งานบริหารและส่งเสริมการวิจัย
กองบริหารงานวิจัย มหาวิทยาลัยมหิดล
โทร. 02-849-6252 โทรสาร. 02-849-6247

ที่ อว 78.016/ก ๒14๐
วันที่ 24 มิถุนายน 2565
เรื่อง ประชาสัมพันธ์ทุนวิจัย Single-Cell Biology Data Insights (Cycle 2) จากแหล่งทุน Chan Zuckerberg Initiative (CZI)

เรียน คณบดี / ผู้อำนวยการ

ด้วยแหล่งทุน Chan Zuckerberg Initiative (CZI) เปิดรับข้อเสนอโครงการในหัวข้อ Single-Cell Biology Data Insights (Cycle 2) เพื่อสร้างเครือข่ายของโครงการวิจัยที่ใช้ข้อมูล single-cell biology ในหลากหลายระดับ แบ่งเป็น 2 ประเภท ทุน ได้แก่ 1. ประเภท Focused สนับสนุนทุน 18 เดือน งบประมาณสูงถึง 200,000 USD และ 2. ประเภท Expanded สนับสนุน ทุน 18 เดือน งบประมาณสูงถึง 400,000 USD โดยอาจารย์/นักวิจัย สามารถส่งข้อเสนอโครงการผ่านระบบออนไลน์ของแหล่งทุน (<https://apply.chanzuckerberg.com>) โดยเปิดรับข้อเสนอโครงการถึงวันที่ 25 สิงหาคม 2565 ทั้งนี้ โครงการที่เสนอขอทุน ให้ ปฏิบัติตามประกาศมหาวิทยาลัยมหิดลเรื่อง หลักเกณฑ์และอัตราเงินค่าธรรมเนียมพัฒนาการวิจัยของมหาวิทยาลัยและส่วนงาน ที่ จัดเก็บจากโครงการวิจัยที่ได้รับเงินอุดหนุนจากแหล่งทุนภายนอกมหาวิทยาลัย พ.ศ. 2560 โดยระบุมวดค่าธรรมเนียมอุดหนุน สถาบันในอัตราร้อยละ 10 และขอให้ดำเนินการตามที่ระบุในหนังสือชักชวนแนวปฏิบัติ เรื่องมาตรฐานการวิจัยของโครงการวิจัย รายละเอียดดังเอกสารที่แนบมาด้วยนี้ ทั้งนี้ อาจารย์/นักวิจัยที่สนใจสามารถศึกษารายละเอียดเพิ่มเติมได้ตามเอกสารที่แนบมาด้วย นี้ หรือเว็บไซต์ของแหล่งทุนที่ <https://chanzuckerberg.com/rfa/single-cell-data-insights/>

ในการนี้ กองบริหารงานวิจัย มหาวิทยาลัยมหิดล จึงขอแจ้งข่าวประกาศทุนมายังท่าน เพื่อโปรดประชาสัมพันธ์ ทุนวิจัยดังกล่าวให้บุคลากรในหน่วยงานของท่านทราบโดยทั่วกัน และขอให้อาจารย์/นักวิจัย โปรดส่งเอกสารข้อเสนอโครงการผ่าน ส่วนงานต้นสังกัดมายังกองบริหารงานวิจัยเพื่อตรวจสอบรายละเอียดข้อเสนอโครงการภายในวันที่ 19 สิงหาคม 2565 เพื่อลงนาม ในเอกสาร Institutional Approval Form ทั้งนี้หากส่วนงานจัดส่งข้อเสนอโครงการมายังมหาวิทยาลัยหลังจากวันที่มหาวิทยาลัย กำหนด มหาวิทยาลัยขอสงวนสิทธิ์ในการส่งข้อเสนอโครงการเพื่อสมัครรับทุนดังกล่าว

จึงเรียนมาเพื่อโปรดทราบและโปรดประชาสัมพันธ์ข่าวต่อไปด้วย จักขอบคุณยิ่ง
งานบริหารงานวิจัยและนวัตกรรม
วันที่ 24 มิ.ย. 65

ตรา
27 มิ.ย. 2565
(ศาสตราจารย์ ดร. นายแพทย์ภัทรชัย กีระติสิน)

รองอธิการบดีฝ่ายวิจัย

ผู้ประสานงาน: นายวรินทร์พิภพ ชยทัตภูมिरัตน์
โทร: 0-2849-6252 อีเมล: varinpipob.cha@mahidol.edu

โปรด ย.ร. ทุนวิจัย

๑. ๒๖๖๖๖๖๖๖
๒๔/๖/๖๕

เรียน คณบดี (ประธานราชวิทยาลัย)

- วัตถุประสงค์ของโครงการวิจัย งบประมาณของ Single-Cell Biology Data Insights (Cycle 2) จากแหล่งทุน Chan Zuckerberg Initiative (CZI) แบ่งเป็น 2 ประเภท

- 1) Focused สนับสนุนทุน 18 เดือน งบ. ๒๐๐,๐๐๐ USD | ส่งใบเสนอราคา ๒๕ ส.ค. ๖๕ ตามเว็บไซต์
- 2) Expanded สนับสนุนทุน 18 เดือน งบ. ๔๐๐,๐๐๐ USD | 18 เดือน

ผู้สนใจเสนอขอรับโปรดจัดส่ง Proposal Institutional Approval Form 18 ส.ค. ๖๕ ผ่านระบบออนไลน์

- วัตถุประสงค์ของโครงการวิจัย

๒๕ มิ.ย. ๒๕๖๕

Chan Zuckerberg Initiative

APPLICATION INSTRUCTIONS Single-Cell Biology Data Insights (Cycle 2)

Some helpful information as you get started:

- This document contains:
 - [General guidance on using the portal](#)
 - [How to submit an application](#)
 - [Application details specific to this RFA](#)
- Please review the [Request for Applications](#).
- The Chan Zuckerberg Initiative uses SurveyMonkey Apply (SMAppl) as its grants management portal. All applications must be submitted through this portal (<https://apply.chanzuckerberg.com>). SMAppl is configured to work best using the Google Chrome browser. It is recommended that you familiarize yourself with this portal well in advance of any deadlines. Deadline extensions will not be granted.
- **Key dates:** We invite applications for consideration for funding during three distinct cycles. **All dates for the third cycle are subject to change.** Please sign up for our [mailing list](#) to stay updated on these dates as they are announced and future funding opportunities.

| Cycle | Application opening date | Application due date | Notification of decisions | Expected start date of grant |
|-------|---|---|---------------------------|------------------------------|
| 1 | October 5, 2021 by 9 a.m. Pacific Time | December 14, 2021 by 5 p.m. Pacific Time | Mid-May 2022 | July 1, 2022 |
| 2 | June 21, 2022 by 9 a.m. Pacific Time | August 25, 2022 by 5 p.m. Pacific Time | Mid-March 2023 | May 1, 2023 |
| 3 | Mid-May 2023 | Late-June 2023 | January 2024 | February 1, 2024 |

- **Application specifics:**
 - **Eligibility:** Please refer to the [RFA announcement](#).
 - **Grant period and start date:** Awards will be 18 months in duration; expected start date for Cycle 2 is May 1, 2023.
 - **Grant amount:** \$200,000 USD total costs (inclusive of up to 15 percent indirect costs) for Focused awards or \$400,000 USD total costs (inclusive of up to 15 percent indirect costs) for Expanded awards. Indirect costs cannot exceed 15 percent of direct costs.
 - **Number of Principal Investigators (PI and Co-PIs):** Each application must have a minimum of one PI (Coordinating PI), but may designate up to three total PIs (one Coordinating PI and up to two Co-PIs). Principal Investigators may serve as Coordinating Principal Investigator on multiple applications provided that the proposed scope of work for all applications is non-overlapping. Principal Investigators may serve as Co-PI on multiple applications provided that the proposed scope of work for all applications is non-overlapping. PIs/Co-PIs on one application may be employed at the same or different institutions.
 - Institutional sign-off is required.

GETTING STARTED

Account setup: The applicant must first set up an account in the CZI online grants portal at <https://apply.chanzuckerberg.com/>.

To set up an account:

1. Go to <https://apply.chanzuckerberg.com/>.
2. Click the green **Register** button in the upper right corner.
3. Complete the requested fields and then click the green **Create Account** button.
4. Click the green **Continue** button to proceed to the site.

Please note you will need to verify your account through the auto-email that you receive after registering. You will not be able to submit an application until your account is verified.

Personal data: Where we ask for personal data of individuals in grant applications, please only submit personal data that you have a right to provide. We will use and store any personal data collected through the application process for grant-related purposes (e.g., administering the grant, analyzing and improving our grant practices). The Chan Zuckerberg Initiative Foundation and Chan Zuckerberg Initiative, LLC (collectively “CZI”) will be the “data controllers” for any such personal information, and the data may be stored on servers outside of your home country, including within the United States. If you have any questions or concerns regarding our privacy practices or collection or use of personal data, you can contact us at privacy@chanzuckerberg.com.

Navigating the portal: Once you have set up an account, you can log into the grants portal at <https://apply.chanzuckerberg.com/>. Using the links in the upper right corner, you can access available programs (which includes RFAs for all CZI areas, not just Science) and any applications you have in

preparation or previously submitted. Use the information (“i”) link to get help with the portal. To access your account information, click on your name in the upper right. Your application will pre-populate with the name and email listed in your account information so if you need to edit it, click on your name in the upper right corner to make any necessary changes.

Forgotten username or password: If you have forgotten your username or password, please navigate to the grants portal at <https://apply.chanzuckerberg.com/> and click on the **Log In** link located in the upper right corner. Click the “Forgot your password?” link and then enter the email address associated with your SMAApply account. You will then receive an email with information to reset your password. Please note that your username is your email address.

Other questions: If you have other questions about using the portal, please use the information (“i”) link in the upper right corner of the window. Here you will find a link to FAQs about using the portal, as well as links to submit specific help requests. If you have specific questions about the RFA, please contact us at sciencegrants@chanzuckerberg.com.

SUBMITTING AN APPLICATION

To submit an application:

1. Go to <https://apply.chanzuckerberg.com>.
2. Log in.
3. Click the green View Programs button that is displayed or click on the Programs link in the upper right corner. This will bring you to a listing of all programs/RFAs that CZI is hosting in SMAApply. To **find the program/RFA** you are looking for, you may need to scroll down.
4. Find the program/RFA you are interested in and click the green **More** button.
5. Click the green **Apply** button in the upper right and complete all sections (details below).
 - a. You will first be prompted to **enter the title** of your application, after which you will have access to the application tasks to complete. Project title is limited to 60 characters, including spaces. If you need to **edit your project title**, click on the My Applications link in the upper right and click the green **Continue** button on the application you wish to edit. Once the application page opens, click on the three dots to the right of the application title (next to the Preview link) and select Rename from the dropdown menu.
 - b. The application is made up of several sections called tasks that are listed in a menu on the left side of the page. To **open a task**, click on the one you would like to work on. You can edit and complete tasks in any order. You may need to scroll down to see the remaining tasks.
 - c. Once you **complete a task**, click the green **Mark as Complete** button within the task. All tasks must be marked as complete before submitting. To **edit a task** after marking it as complete, click the three dots in the upper right of the task and select edit, which will re-open the task.

- d. Your application will autosave every few seconds, but you can also click the Save & Continue Editing on each task as you go along to **save your application**.
 - e. For tasks that require a PDF upload: If you need to **delete and replace a PDF** after you have uploaded it, click on the three dots to the right of the file under the Attach File section within the task and select **Remove** from the dropdown menu.
 - f. To **download your application**, click on the three dots in the upper right corner of the application page and select download. If you are within a task, first click on the Back to application link in the upper left. Please **be aware of any pop-up blockers** in your browser that may prevent downloading your application.
 - g. To **access an application that you have previously saved**, click on the My Applications link in the upper right and click the green **Continue** button on the application you wish to edit.
6. Once all tasks are completed, click the green **Submit** button to **submit your application**.
- a. If the button is grayed out, it means your application is not yet complete; please be sure all required fields and uploads are complete within each task and that you have clicked the **Mark as Complete** button within each task.
 - b. To **download your application**, click on the download link in the upper right corner. Please be mindful of **any pop-up blockers** that may be active in your browser that prevent/hide downloads.
 - c. Review your application in the window (or in the PDF that you have downloaded). If you want to make changes, navigate back to your application and reopen/edit any tasks that need editing. **It is strongly recommended that you download your application as a PDF (instructions above in 5f. and 6b.) to review your application before clicking submit.**
 - d. Once you are **ready to submit**, click the green **Submit Your Application** button on the left side of the window. You will need to confirm your submission by clicking the green **Submit** button in the pop up window. **Once your application has been submitted, it cannot be edited. Please be sure that your application is complete BEFORE submitting.** If you inadvertently submit your application and it is before the deadline, please contact sciencegrants@chanzuckerberg.com.
7. Once your application is submitted, you will **receive an auto-email** confirming submission within a few minutes. If you do not receive a confirmation email within a few minutes, please check your spam folder. If you still did not receive your confirmation email, please email sciencegrants@chanzuckerberg.com.
8. If you would like to view your application after you have submitted it, it can be accessed through the My Applications link in the upper right corner.

The application consists of the following sections (called tasks in the grants portal):

Coordinating PI Details, Organization Details for Coordinating PI, Equal Opportunity & Diversity, Project Details, Budget, Biosketches for Coordinating PI and Co-PIs, Optional Attachments.

- **Coordinating PI Details:** Complete all fields in this task; **all fields are required.** The information entered should be for the Coordinating Principal Investigator (Coordinating PI), who will be the person submitting the application on behalf of the team. The Coordinating PI will take responsibility for managing the group collaboration and be the administrative point of contact for CZI and any partners. Note that institutions outside the U.S. may not subcontract to U.S. institutions, so please be mindful when selecting the Coordinating PI/institution. Information about the Co-Principal Investigator(s) on the proposal should be entered where requested in the Project Details part of the application.
 - Name and email (auto-filled): To edit your name or email, please do so in your account information by clicking your name in the upper right corner and clicking My Account in the dropdown menu.
 - Degree(s)
 - Organization
 - Title/Position
 - Department or equivalent
 - Career status: Select early-career (0 to 6 years), mid-career (6+ to 10 years), or neither. **Note: Early- or mid- career status is not required to be eligible for this RFA, although we encourage participation and leadership from early-career researchers.**
 - Early-Career Definition: In the context of this RFA, an early-career investigator is someone who has been in an independent position for no more than six years at the time of application, i.e. started their first independent position between August 25, 2016 and August 25, 2022. Graduate students and postdocs who are eligible to apply should select this option.
 - Mid-Career Definition: In the context of this RFA, a mid-career investigator is someone who has been in an independent position for more than six to 10 years at the time of application, i.e. started their first independent position between August 25, 2012 and August 24, 2016.
 - Short narrative biography of the Coordinating PI (maximum of 100 words).
 - ORCID iD: Enter in format XXXX-XXXX-XXXX-XXXX. ORCID iDs are unique, digital identifiers that distinguish individual scientists and unambiguously connect their contributions to science over time and across changes of name, location, and institutional affiliation. ORCID iDs will be used to streamline reporting in our applications and grant reports to reduce the burden on grantees. For more information and to register, please visit <https://orcid.org/register>. (Please contact us at sciencegrants@chanzuckerberg.com if you wish to opt out).

- **Organization Details for Coordinating PI:** Complete all fields in this task; **all fields are required.** The information entered should be for the organization of the Coordinating Principal Investigator (Coordinating PI), who will be the person submitting the application on behalf of the team. The Coordinating PI must be affiliated with the organization listed, and grant funds will be awarded to this organization, which will take responsibility for distributing funds to the institutions of the other team members.

- Organization name/Street address/City/State/Country/Website.
 - Type of Organization (Academic, Other Nonprofit, Government, Other).
 - Tax ID: Enter your organization's Employer Identification Number (EIN), as assigned by the Internal Revenue Service in the 9-digit format (XX-XXXXXXX; 10 characters total). Foreign organizations or others who do not have an EIN should enter 44-4444444.
 - Organizational/Administrative Contact: List the name and contact information for the administrative contact to discuss additional information needed, if selected for award.
 - First name, Last name, Title/Position, Email.
 - Signing Official: List the name and contact information for the person authorized to sign on behalf of your organization.
 - First name, Last name, Title/Position, Email.
 - Press Contact / Public Relations Official: List the name and contact information for the person to discuss press releases and media.
 - First name, Last name, Title/Position, Email.
 - Institutional Approval Form: Upload as a single PDF. This form should be reviewed and signed by a person authorized to sign on behalf of your organization agreeing to the stated institutional and investigator requirements and commitments on data, resource sharing, and publication policies, as well as endorsing/verifying your application materials and confirming their ability to receive funding for the project. In the event of an award, all funds will be awarded to the Coordinating PI institution as the prime institution, and the Coordinating PI institution will be responsible for ensuring compliance of all of the terms, including compliance of all partners/subcontract institutions. **These policies are non-negotiable. This form should only be signed if the organization is able to comply with the terms as stated.** While CZI does not require sign-off by all of your partner institutions, please refer to what your institution requires. **Note: digital signatures are permitted as long as the document is not encrypted or password-protected.**
- **Equal Opportunity & Diversity**: CZI Science supports the science and technology that will make it possible to cure, prevent, or manage all diseases by the end of this century. Everyone is affected by disease, yet different communities are affected by or experience disease in different ways. Moreover, due to systemic barriers, the scientific enterprise itself is not a place where all voices and talents thrive. We believe the strongest scientific teams — encompassing ourselves, our grantees, and our partners — incorporate a wide range of backgrounds, lived experiences, and perspectives that guide them to the most important unsolved problems. To enable our work, we incorporate diverse perspectives into our strategy and processes, and we also seek to empower community partners to engage in science.

We request demographic information associated with applications submitted to CZI in response to our open calls. This information helps us learn from the RFA process, as well as improve our strategies to help ensure members of underrepresented or marginalized groups in science are aware of and able to apply to CZI opportunities. **Please note that answering all questions below is voluntary, and demographic information will not be used to make**

final grant funding decisions. All responses will be shared only with limited personnel, who will use that information only for the purposes described in this paragraph.

If you have any additional questions about why we ask this, what we do with the data, or to share suggestions for improvement, please reach out to sciencegrants@chanzuckerberg.com.

The information below may be entered for the applicant. **Please note that completing the below is voluntary, and demographic information will not be used to make final grant funding decisions.**

- What is your race/ethnicity? (optional)
- What is the year of your last academic degree? (optional)
- What is your gender? (optional)
- Are you transgender? (optional)
- Are you a member of the LGBTQ community? (optional)
- Do you have one or more disabilities? Please specify (optional)

The information below may be entered for the Co-Principal Investigators listed (if any and up to two maximum) in the Project Details section. **Please note that completing the below is voluntary, and demographic information will not be used to make final grant funding decisions.** Please also let your Co-Principal Investigators know if you choose to enter the below in case they object to your providing that information to CZI.

- Do any of the Co-Principal Investigators self-identify as one of the following? Woman, Man, Non-binary/Third gender, Prefer not to state, Prefer to describe (optional)
 - If yes, how many of the listed Co-Principal Investigators self-identify as one of the above gender identities? **Please do not include requested information on a per person basis; we are looking for aggregated information (optional)**
- Do any of the Co-Principal Investigators self-identify as one of the following? Two or More Races, Black and/or African American, Asian, White, Hispanic or Latinx, Middle Eastern or North African, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, Prefer not to state, Prefer to describe (optional)
 - If yes, how many of the listed Co-Principal Investigators self-identify as one of the above race/ethnicities? **Please do not include requested information on a per person basis; we are looking for aggregated information (optional)**
- **Project Details:** Complete all sections in this task. **All sections are required.**
 - **Project Title (auto-filled):** Project title is limited to 60 characters, including spaces. If you need to edit your proposal title, navigate to your application summary page, click on the three dots to the right of the application title (next to the Preview link) and select Rename from the dropdown menu.
 - **Project Purpose:** One sentence (maximum of 200 characters including spaces). Please use a third-person voice.
 - Example: *To develop a series of workshops and tutorials to increase utilization of single-cell data in biomedical research.*

- **Award Type:** Single selection: Focused (\$200k limit) or Expanded (\$400k limit)
- **Amount Requested:** Enter the total budget amount requested in U.S. dollars, including indirect costs; this number should match the total described in the Budget section. Enter whole numbers only (no dollar signs, commas, or cents). This amount should be no more than \$200,000 USD total costs (inclusive of up to 15 percent indirect costs) for Focused awards or \$400,000 USD total costs (inclusive of up to 15 percent indirect costs) for Expanded awards.
- **Previous Funding:**
 - Did you previously apply for funding under the CZI Data Insights RFA? Yes/No. **If yes**, provide the application number: e.g., DI-0000005345.
 - Did you previously receive funding under the CZI Data Insights RFA? Yes/No. **If yes**, provide the application number: e.g., DI-0000005345.
- **Co-Principal Investigators:** Indicate the number of Co-Principal Investigators (maximum of two), not including the Coordinating PI. Complete the table with the following information for each Co-PI. **Do not include the Coordinating PI in this section.** You may need to use the scroll bar at the bottom of the table to scroll right to view and complete all fields. Alternatively, you can tab to move through and complete the fields. For each Co-PI, please provide:
 - Co-PI name, Title/Position, Degrees, ORCID ID (format: XXXX-XXXX-XXXX-XXXX), Email, Career status
 - In the context of this RFA, an early-career investigator is someone who has been in an independent faculty position (or equivalent) for no more than six years at the time of application, i.e. started their first independent position between August 25, 2016 and August 25, 2022, and mid-career as someone who has been in an independent faculty role (or equivalent) for more than six to 10 years at the time of application, i.e. started their first independent position between August 25, 2012 and August 24, 2016.
 - Funded/Unfunded by this CZI grant to support the proposed work
 - Organization Name, Country, Website
 - Type of organization (drop down menu: Academic, Other Nonprofit, Government, Company/industry, Other).
 - Tax ID: Enter your organization's Employer Identification Number (EIN), as assigned by the Internal Revenue Service in the 9-digit format (XX-XXXXXXX; total of 10 characters). Foreign organizations or others who do not have an EIN should enter 44-4444444.
- **Abstract:** Describe your project in brief (maximum of 250 words).
- **Project / Work Plan:** A description of the proposed work, including an overview of the primary challenges that the project seeks to address, and existing work that serves as a foundation (maximum of 1,000 words).
- **Utility:** Summarize how the project supports scientific researchers to gain more insight from single-cell data. Clarify the anticipated impact and utility it will have for the community (maximum of 500 words).

- **Data:** Projects must propose and rely on existing data that is openly and freely available at the time of application. List all datasets that will be utilized in the proposed work along with URLs and/or DOIs where they can be accessed (maximum of 25). If you would like to include more than 25, please include a table for the additional datasets in the Optional Attachments section.
 - Dataset or publication name
 - DOI link or URL to specific dataset(s)
 - Examples:
 - <https://cellxgene.cziscience.com/collections/0a839c4b-10d0-4d64-9272-684c49a2c8ba> or <https://doi.org/10.1016/j.cell.2021.01.053>
 - Short description (maximum of 50 words)
 - **Software (optional):** List programming language(s), packages, and tools used, if applicable (maximum of 50 words).
 - **Milestones and Deliverables:** List expected milestones and deliverables, and their expected timeline. Be specific and include (where possible) any goals for metrics the project is expected to reach upon completion of the grant. Please use a third-person voice (maximum of 250 words).
 - **Diversity, Equity, and Inclusion (DEI) Plan:** Advancing diversity, equity, inclusion, and representation is a core value for CZI, and we are requesting information on your efforts that will clarify how your project and/or team will incorporate similar values into the proposed project. Potential areas of focus may include efforts to incorporate reproducible notebooks, documentation that encourages reuse, trainings, work that addresses health disparities, or other efforts (maximum of 250 words).
 - **Community Statement:** In addition to the technical achievements of this RFA, there is a goal of building a community of projects that will complement one another and provide collaborative opportunities among participants. Please clarify what the proposed project aims to gain and contribute to the larger network (maximum 250 words).
- **Budget (one page maximum per PI):** Upload in PDF format; budgets can be uploaded in a combined single PDF or one PDF for each Co-PI; one page maximum per PI; font must be 11 point or larger and margins must be at least one-half inch (top, bottom, left, and right) for all pages (letter size required). Provide a detailed description of the costs to be funded by this grant at a high level and in tabular form, outlining costs for personnel (including names, if known), supplies, equipment, travel, meetings/hackathons/sprints, subcontracts, other costs, and up to 15 percent indirect costs (excluding equipment and subcontracts). If budgets are provided for multiple PIs, the Coordinating PI should also generate a summary of no more than one page showing the distribution of grant funds across the PIs.
 - Indirect costs are limited to up to 15 percent of direct costs. Indirect costs may not be assessed on capital equipment or subcontracts, but subcontractors may include up to 15 percent indirect costs of their direct costs.
 - Budget should be requested in U.S. dollars.
 - Note that institutions outside the U.S. may not subcontract to U.S. institutions, so please be mindful when selecting the Coordinating PI/institution.

- International grantees must use all grant funds exclusively for activities conducted outside the United States of America. Travel expenses to the United States (including round-trip tickets) should not be covered from the requested grant funds. Any attendance at CZI meetings in the U.S. will be covered by CZI outside of requested grant funds.
 - All key personnel must be named along with their percent effort. This includes graduate students, postdocs, and staff scientists. Although recruiting new members to the lab is allowable, it is strongly encouraged that key personnel are in place at the outset of the grant to allow for coordinated community building and project progression.
 - Application budgets must reflect the actual needs of the proposal. The Chan Zuckerberg Initiative will work closely with successful applicants to arrive at a mutually acceptable budget after review.
- **Biosketches for Coordinating PI and Co-PIs:** Upload the biosketches in PDF format for the Coordinating PI and for each of the Co-PIs. Biosketches can be uploaded in a combined single PDF or one PDF for each Co-PI; maximum of five pages per biosketch; NIH format or similar. Do not include any biosketches for any additional collaborators beyond the Coordinating PI and Co-PIs, as listed.
 - **Optional Attachments:** Upload in PDF format; attachments should be uploaded in a combined single PDF. Include up to a maximum of three pages of additional information. This section can include figures, charts and tables, references for the project, or any additional material in support of the project. Uploading any additional information is completely optional and not required.

The formatting and component requirements, including word and page limits indicated above, will be enforced by the review team. Any submitted materials that exceed the word and page limits or do not follow the requirements will not be considered during the application review process.

QUESTIONS?

For administrative and programmatic inquiries pertaining to this RFA, please contact sciencegrants@chanzuckerberg.com. For technical assistance with SMaply, please contact support@smapply.io, or while logged into SMaply, click on the information "i" link in the upper right corner and submit a help request ticket.

Institutional Approval Form

The purpose of this form is to obtain acknowledgement of the signing institution's understanding of and agreement with CZI's requirements of grantees. This form is required to be reviewed and signed by an official authorized to sign on the applicant organization's behalf, agreeing to the requirements listed below, endorsing this application, and verifying that the information entered/uploaded into the grants portal is accurate. This signed form must be uploaded into the grant portal for the final application to be considered complete.

*The policies listed below represent the values of CZI Science and give insight into the concepts that the future grant agreement will address, if the application is selected for an award. **These policies are non-negotiable** so this form should only be signed if the organization is able to comply with the terms as stated.*

Questions should be directed to sciencegrants@chanzuckerberg.com.

Signature below indicates agreement to the following requirements, if grant is selected for funding. Applications selected through this application process will be recommended for funding through the Chan Zuckerberg Donor-Advised Fund (DAF) at the Silicon Valley Community Foundation (SVCF) or funded through the Chan Zuckerberg Initiative Foundation (CZIF):

Research Integrity: CZI is committed to supporting research that is reproducible and valid and scientists who are truthful. CZI does not tolerate fabrication, falsification or plagiarism. In any case where there is reason to believe that a Principal Investigator or collaborator, chosen by the Grantee to complete a funded project, has committed research misconduct, we expect the Grantee to bear responsibility for conducting an initial inquiry and if required, a full investigation. CZI recognizes the need and duty to protect the identities of anyone who has been accused of misconduct pending investigation. However, we require that the Grantee institution notify us of the start and conclusion of all such investigations that involve our grants. We will hold such information in confidence, barring any legal obligation to disclose the information. For any case for which the Grantee's investigation determines that misconduct has indeed occurred, we require that the case be described in public (online), including the name(s) of any researchers held responsible or that CZI may publicly disclose such findings, including the name(s) of any researchers held responsible, without restriction. In addition, Grantee will make every reasonable effort to inform other parties affected directly or indirectly by the misconduct, including but not limited to journal editors, research collaborators and other funding agencies. CZI regards the National Institutes of Health Office of Research Integrity to have well defined procedures for inquiries, investigation and publication is described at <https://ori.hhs.gov>. The Grantee can follow their own standards for such inquiries, provided that the procedures include a public disclosure requirement.

Ethical Conduct: CZI advocates the highest standards for the ethical conduct of research. In addition to abiding by the related requirements of their own countries, Principal Investigators chosen by the Grantee to complete a funded project shall adopt procedures for the use of animals in research, for the ethical treatment of human subjects and

tissue donors, and for obtaining the written informed consent of all human subjects. CZI regards the policies of the National Institute of Health as a strong model for such procedures.

Data Access: CZI is committed to developing and using platforms that disseminate data openly and freely. In support of these goals, any datasets either curated or generated through the project shall be made publicly available and easily accessible online under an Open Definition-Conformant License (preferably CC0 or CC BY/CC BY SA for data that requires explicit attribution). That said, CZI understands the need for subsets of data to be protected or provided with controlled access. In these cases, where necessary, data must be handled in a controlled and proper way in agreement with national and international standards, including all privacy regulations (including without limitation Health Insurance Portability and Accountability Act of 1996 and the Health Information Technology for Economic Clinical Health Act, as far as applicable). For projects related to the Human Cell Atlas, any raw data (e.g. sequencing, imaging, etc.) and metadata including both new measurements and newly curated existing datasets must be deposited into the Human Cell Atlas Data Coordination Platform (<https://www.humancellatlas.org/data-sharing>), through mechanisms and formats provided and specified by the platform developers and working groups. All software, formats and information related to the platform can be obtained through <https://github.com/HumanCellAtlas/>, and CZI staff will contact grantees with further information and instructions.

Intellectual Property: CZI promotes policies that enable technologies to have the broadest reach and impact. In support of that goal, intellectual property should be made freely available for all academic and noncommercial use. Specifically, funded work may result in the creation of software and other works of authorship ("Developed Software") and may also result in other intellectual property, both non-software inventions and patentable inventions, as described further below:

Developed Software: To encourage sharing and reuse, code produced for new software and tools must be made available through open source licenses wherever possible. Specifically, we assume code used and developed for this project will include some combination of newly developed code ("Developed Code"), preexisting software or code that was previously developed by Grantee ("Pre-Existing Code"), and code licensed from a third party ("Third Party Code"). All Developed Code must be released under a permissive open-source license (MIT, BSD 2-Clause, BSD 3-Clause, or Apache v2.0). All Pre-Existing Code, including any derivatives, shall be licensed under the most permissive license possible given any existing licensing terms and conditions applied to the code. Grantees will ensure that they only use or incorporate Third Party Code into the funded project that allows for further distribution (e.g. is provided under such a permissive open-source licensing program), and Grantees will comply with the terms of the licensing program. To promote open collaboration, grantee shall ensure that all code is developed in the open using a code sharing site like GitHub from the start of the project in order to coordinate among grantees, engage the community, and facilitate outside contributions. We encourage Grantees to work collaboratively with CZI and the rest of the community to ensure that the full results of the project are made as widely available as possible.

Non-Software Inventions (data): All raw data (sequencing, imaging, etc.) and metadata must be deposited into a publicly accessible repository through mechanisms and formats specified by the data platform developers. CZI staff can answer questions about such data repositories and platforms.

Patentable Inventions: In some cases, commercialization of intellectual property rights in the form of patents provides the best route for the broadest availability and dissemination of technology arising from the Grant. Grantee's policies and procedures for intellectual property management should be followed by Grantee, and in all cases, non-exclusive patent licensing shall be given preference over exclusive licensing. All patentable and non-patentable intellectual property must be made freely and openly available for all academic use and openly available for non-commercial use, including non-commercial research use by for-profit companies. Per the foregoing requirements that all intellectual property arising from this grant be made openly available for non-commercial use, CZI, by way of this Grant Agreement, shall be granted a non-commercial, royalty-free, perpetual and sublicensable license to all intellectual property arising from the Grant.

Reagent Sharing: Grantees must make all data and replicable materials available, in a timely manner, from the date of publication. We encourage the use of existing community repository where possible (e.g. Jackson Labs, the Drosophila Stock Center at Bloomington, the Developmental Studies Hybridoma Bank, Addgene). The requirement for sharing applies to clones, and to transgenic organisms and cell lines (including monoclonal antibodies).

Publication: CZI supports full publication and public availability of research findings without conditions or restrictions on academic and publication freedom. Grantee will submit all manuscripts for any publications that were funded in whole or in part by the Grant as preprints to bioRxiv, or a similar service for sharing preprints, before or upon first submission to a journal. Grantee will make experimental protocols publicly available through a protocol sharing service such as protocols.io (<https://protocols.io>). Grantees will notify CZI regarding all publications submitted or published as part of the annual report. We advocate and support open access, such as outlined in the 2012 San Francisco Declaration of Research Assessment (<http://www.ascb.org/dora/>). Costs associated with open access publication may be charged to this grant as direct costs. Acknowledgements of support will be included in publications referencing research sponsored under the Grant. We suggest you use the following wording: "This project has been made possible in part by grant number «GrantNumber» from the Chan Zuckerberg Initiative DAF, an advised fund of Silicon Valley Community Foundation (or the Chan Zuckerberg Initiative Foundation)".

Indirect Cost Rate: Indirect costs are limited to 15% of direct costs. Indirect costs may not be assessed on capital equipment or subcontracts, but subcontractors may include up to 15% indirect costs of their direct costs.

Special conditions for international grant recipients: Grantee agrees that all grant funds will be used exclusively for activities conducted outside the United States of America. Grantee must contact CZI/SVCF before grant funds are expended if any grant funds are intended to be used within the United States of America, at which point CZI/SVCF will determine if tax withholding may be required under United States tax law, or whether any exceptions to withholding are available.

Grantee does not knowingly employ or have links to any entities or individuals known to support terrorism or to be in violation of US Sanctions. In addition, Grantee is prohibited from using the grant to make payments to officials for the purpose of obtaining or retaining business with, or directing business to, any company, organization, entity, or person, within the meaning of the Foreign Corrupt Practices Act. Additionally, Grantee affirms that the grant is not related to the funding, promotion or procurement of terrorism or banned activities or of any business interest on behalf of any third party including any known terrorists or Specially Designated Nationals and that the grant itself is solely limited to the stated purposes of the grant.

APPLICANT ORGANIZATION CERTIFICATION: Executed by a person authorized to sign on behalf of the applicant organization.

I certify that the statements herein are true, complete, and accurate to the best of my knowledge, and accept the obligation to comply with CZI requirements listed above if a grant is recommended for funding as a result of this application.

Name:

Title:

Signature:

Date: