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# Funding Opportunity Announcement

## TSC Alliance Biosample Seed Grants 2024

The TSC Alliance announces a funding opportunity for 2024 Biosample Seed Grants to support research using blood, tissue, cells, DNA, and/or RNA from samples in the TSC Biosample Repository. The award may support laboratory supplies, personnel costs, services, or equipment necessary to conduct the proposed research. Funds requested can be up to \$20,000. Funding period is one year. [Funding must be distributed to awardees by December 31, 2024.](#) Applicants may request a Material Transfer Agreement (MTA) and Draft Award Agreement upon submission of the application to allow institutional tech transfer offices sufficient time to review the agreements.

The TSC Biosample Repository houses human biological materials linked to detailed clinical data in the TSC Natural History Database. High-quality biosamples and their associated clinical data enable researchers to discover biomarkers, establish human cell lines or tissue arrays for drug testing, and search for clues to understand why TSC is so different from person to person.

As of August 1, 2024, the TSC Biosample Repository has received:

- **479** buccal cell samples for DNA isolation
- **1131** blood samples from which plasma and white blood cells have been isolated
- **194** tissue samples
- **627** blood samples (PREVeNT, RDCRN) and 389 DNA samples (TACERN) from TSC Clinical Research Consortium projects, some of which may be available via application to the projects' Biosample Use Committee. *Please specify in your application if these samples are of interest.*
- **Please see a detailed inventory here:**  
<https://docs.google.com/spreadsheets/d/17FdKgGrWBL2DvP9RbQ-TCOKXU-KlwzC9ecgadKIQyJg/edit#gid=0>

### REQUIREMENTS/ELIGIBILITY

- To build the dataset associated with each biosample and avoid duplication of work in the future, applicants will be required to share data generated on each sample back to the TSC Biosample Repository.
  - Data can be embargoed for a period of time to be defined in the Material Transfer Agreement to provide time to publish, protect intellectual property, etc.

**Hope no matter how complex**



- This opportunity is open to all investigators at established academic or research institutions worldwide.
  - Researchers at start-up pharmaceutical or biotech companies are eligible if they are unable to utilize TSC biosamples in absence of seed funding.
- Researchers residing in the United States need not be U.S. citizens to apply.
- We welcome applications from tenure-track faculty or equivalent, non-tenure-track faculty, and postdoctoral (PhD or MD) fellows.

#### APPLICATION COMPONENTS

Compile the following into a single PDF file and email to Liz Cassidy, MPH at [ecassidy@tscalliance.org](mailto:ecassidy@tscalliance.org) AND [biosample@tscalliance.org](mailto:biosample@tscalliance.org) no later than **11:00 pm Eastern (US/Canada) on Monday, November 4th, 2024.**

Required components:

- 1) Complete the **Application for Biosample Access** located below this FOA. The “Study Information” section may be up to two pages in length to fully explain the rationale, objectives, and experimental design. Preliminary data are encouraged to demonstrate feasibility of the approach. Complete the **Natural History Database Data Request Form** if applicable located below the Application for Biosample Access.
- 2) Include a **“Statement of Impact”** up to a half-page in length describing how this seed funding will advance your research. For example, where will this lead if the experiment is successful, or how will these results be used to apply for a larger grant?
- 3) Include a **one-page budget and justification** for direct costs requested. Limited salary support may be included if required by the institution, but salary support must be strongly justified given the short-term nature of seed funding.
- 4) Principal investigator’s NIH-style biosketch or short CV, not exceeding 5 pages.
- 5) IRB approval letter, exemption letter from an institutional official or department chair, or statement that the project has been submitted to your IRB and is awaiting a decision.

#### EVALUATION CRITERIA

Criteria used to evaluate and prioritize applications for seed funding will include, but are not necessarily limited to:

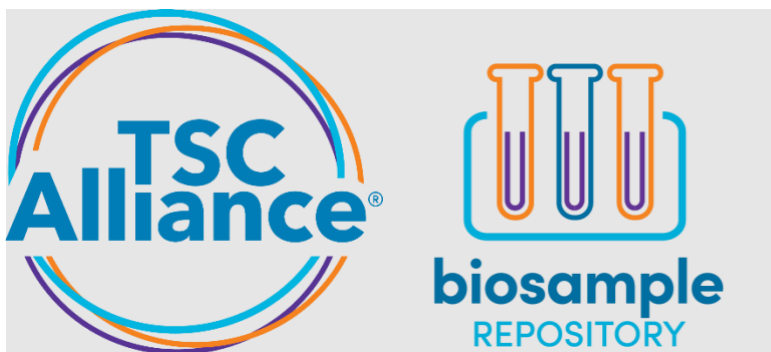
- Relevance to TSC. Biosamples may be used in studies together with samples from individuals with related disorders for the mutual benefit of multiple disorders, including TSC. However, biosamples will not be provided for use as “control” samples in studies primarily focused on other disorders.
- Impact on TSC research and the TSC community.
- Leveraging data from the Natural History Database linked to each biosample to enhance experimental design, interpretation of results, and impact of the study.

#### FUNDING NOTICE

Successful applicants will be notified by late November 2024.

#### QUESTIONS

Please contact Liz Cassidy, MPH ([ecassidy@tscalliance.org](mailto:ecassidy@tscalliance.org)) with any questions.



## APPLICATION FOR BIOSAMPLE ACCESS: BSR SEED GRANTS

### Data Sharing Statement

Along with the biosamples, you will be entitled to receive any data generated by other investigators using these samples. **In return, you are required to share data generated on each sample with the TSC Biosample Repository.** Data can be embargoed for a period to be defined in the Material Transfer Agreement to provide time to publish, protect intellectual property, etc. You can describe your data sharing plan in the application below.

Please check here to acknowledge that you have read and understand the data sharing statement.

### Application Form

#### Principal Investigator Information

First Name:	Middle Name:	Last Name:
Salutation:	Degree(s):	Title:
Phone:	Alt. Phone:	Fax:
Email:	CC Email:	

#### Mailing Address

Institution:	Department:	
Address Line 1:	Address Line 2:	
City:	State:	Zip:

Country:

Institution's Federal Congressional District:

Funding source(s) to support the proposed work, including specific award numbers:

### Date of Request:

### PI Demographics (Optional)

This information is optional but is vital to track the TSC Alliance's progress toward improving the equity, diversity, and inclusion of our research programs. The information will not be disclosed or disseminated to anyone outside of the Steering Committee and the TSC Alliance. The information will not be used to decide whether a specific application is approved or not.

#### Gender

Male  Female  Prefer not to disclose  Prefer to self-describe:

#### Race

American Indian or Alaska Native  Asian  Black or African American  
 Native Hawaiian or Other Pacific Islander  White or Caucasian  Prefer not to disclose  
 Prefer to self-describe: [Click or tap here to enter text.](#)

#### Ethnicity

Hispanic or Latinx  Not Hispanic or Latinx  Prefer not to disclose  
 Prefer to self-describe: [Click or tap here to enter text.](#)

### Shipping Information

Lab contact/Recipient:

Check if the same as PI Information

First Name:

Middle Name:

Last Name:

Salutation:

Degree(s):

Title:

Phone:

Alt. Phone:

Fax:

Email:

CC Email:

### Shipping Address

Check if the same as PI Information

Institution:

Department:

Address Line 1:

Address Line 2:

City:

State:

Zip:

Country:

### Study Information

Please complete information below in a separate attachment if needed for space. Please state "please see study information attachment" in your application should you decide to do this.

Study Title:

Specific Aims:

Long-term study objectives (please include potential impact to TSC community):

Overall Project Summary (please include experimental design and methods):

Justification for Numbers:

*Example: volume or quantity of samples requested. Please include statistical power analysis, if applicable.*

How soon will you use the samples once received?:

Data Sharing - Please describe the specific data elements that will be provided back to the TSC Biosample Repository for each sample analyzed:

Data Sharing – Please describe any other ways you plan to share the data, results, and resources that are generated:

### Sample Request Information: Donor Details

Donor Demographics

Biological Sex:  Male  Female  Either

Race:  Any

American Indian or Alaska Native  Asian  Black or African American

Native Hawaiian or Other Pacific Islander  White or Caucasian  Multi-racial

Age Range:

Minimum:

Maximum:

Donor Clinical History (please list any inclusion and exclusion requirements):

Total Number of Donors Requested:

### Sample Preparation Details

Blood Prep Type

Plasma Volume:  mL  µL

White Blood Cell Pellets Number of cells per sample:

Other (please explain):

Nucleic Acid (*please specify source*)

DNA from **Blood**  DNA from **Buccal Swabs**  DNA from **Tissue**

Minimum quantity:

Maximum quantity:

Minimum concentration:

Maximum concentration:

Minimum volume:

mL  µL

Tissue (*select all that apply; please specify tissue origin in 'Other Preparation Details' below*)

Frozen

FFPE

- Tissue Curls
- Glass Slides

Thickness:  
# of unstained slides:

# of curls:  
# H&E stained slides:

### Other Preparation Details

Please describe, including specifics as appropriate:

Any other considerations we should be aware of?

### Natural History Database (NHD) Data

Will your project also use data stored in the NHD?

- YES
- NO

If YES, please fill out the shortened [NHD DATA REQUEST FORM](#) found below.



## TSC Natural History Database Data Request Form: BSR SEED GRANTS

### **Data Variables Requested**

Please check all data variables that you are requesting from the NHD for your Biosample Seed Grant Application.

*The categories below list example fields in each category. For a full variable list, please reach out to Liz Cassidy, MPH at [ecassidy@tscalliance.org](mailto:ecassidy@tscalliance.org).*

\*For all data exports, the TSC Alliance exports “age at” specific encounters rather than exporting dates for data privacy. If your project needs dates exported, including date of birth of participant, please check this box and explain below:

Explanation: [Click or tap here to enter text.](#)

- Cardiovascular
- Comorbidities (includes chronic infections, diabetes, autoimmune and more)
- COVID-19 Data (*applies only to participants with a confirmed positive test*)
- Demographics (biological sex, race, ethnicity)
- Dental
- Dermatological
- Diagnosis (clinical or molecular)
- Family Participation
- Genetics
- Liver
- Mortality
- Neurological (epilepsy, SEGA, SENs, tubers and associated treatments)
  - Additional data on a subset of participants in a subproject including SEGA imaging dates/data, epilepsy surgery, SEGA shunt, and VNS. For full variable list, please contact *Liz Cassidy, MPH at [ecassidy@tscalliance.org](mailto:ecassidy@tscalliance.org)*.
  - Antiepileptic drugs (“snapshot” – *if participant has ever received drug and if it is ongoing*)
- Neuropsychiatric (intellectual ability, psychiatric disorders, learning disorders, behaviors)
  - Psychoactive drugs (“snapshot” – *if participant has ever received drug and if it is ongoing*)
- Ophthalmological

- Other TSC conditions (non-renal abdominal hamartoma, other TSC-related condition not captured elsewhere)
- Perinatal (prenatal history)
- Pulmonary
- Rare Conditions
- Renal (angiomyolipoma, cysts, polycystic kidneys and associated treatments)
  - Additional data on a subset of participants in a subproject including angiomyolipoma imaging dates/data, nephrectomy, eGFR, and serum creatinine. For full variable list, please contact *Liz Cassidy, MPH* at [ecassidy@tscalliance.org](mailto:ecassidy@tscalliance.org).
- Reproductive