
DATA MANAGEMENT AND SHARING PLAN

1. Will there be [maximum appropriate sharing of scientific data](#) underlying peer-reviewed publications and other findings resulting from the work supported by this award (including preprints, refereed papers reported at conferences, and other findings)?
Yes ☒ No ☐
2. Will the scientific data underlying peer-reviewed publications be shared by the time of publication, or for other findings, by the end of the period of performance, which includes no-cost extensions?
Yes ☒ No ☐
3. Will shared scientific data be made available for at least as long as required by applicable data repository policies and/or journal policies?
Yes ☒ No ☐
4. If you answered “no” to elements 1, 2, or 3, or if you anticipate that sharing will be limited in some other way, please describe these limitations and the ethical, legal, or technical factors for them. Your response should specify a particular reason(s) for limiting sharing. *[300 words maximum]*

Although scientific data underlying publications will be shared to the maximum extent appropriate, the de-identified human iPSC lines obtained from Dr. Christopher Navara (UT-San Antonio) and any derived organoid resources may be subject to institutional, repository, consent, or MTA restrictions. Where direct redistribution of cell lines or organoid resources is not permitted, we will provide source information, metadata, protocols, and instructions to facilitate access through approved institutional or repository mechanisms.

5. If scientific data derived from human research participants will be shared, will privacy, rights, and confidentiality of participants be protected as outlined in [NOT-OD-22-213](#)?
Yes ☒ No ☐ Not Applicable ☐

The project will use de-identified human iPSC lines obtained from Dr. Christopher Navara at UT San Antonio and derivative kidney organoid models. Any shared scientific data derived from these materials will be de-identified and will not include directly identifying participant information. Sharing will be conducted consistent with applicable consent terms, institutional policies, repository requirements, MTAs, and NIH expectations for protecting participant privacy, rights, and confidentiality.

6. *In the table below, please list [100 words maximum]:*

Expected Data Type	Established Repository or Example
TRPM7 biochemical, enzymology, kinase, and phosphosite data	Zenodo, Figshare, journal supplements
Mass spectrometry, phosphoproteomics, and HDX-MS data	PRIDE/ProteomeXchange, MassIVE, Zenodo
Cryo-EM maps, models, and structural files	EMDB, PDB
Channel-function datasets and analysis scripts	Zenodo, GitHub archived with Zenodo DOI
Organoid imaging, immunostaining, CaMPARI2, and morphometric data	Biolineage Archive, Zenodo, Figshare

RNA-seq, scRNA-seq, snRNA-seq, or ATAC-seq data, if generated	GEO/SRA or NIH-designated repository
Plasmids, constructs, SOPs, code, and protocols	Addgene, protocols.io, GitHub, Zenodo
TRPM7 biochemical, enzymology, kinase, and phosphosite data	Zenodo, Figshare, journal supplements

7. For studies subject to the NIH Genomic Data Sharing Policy (GDS) (e.g., using NIH funds to generate large-scale human genomic data):

- a. Will you share all large-scale human genomic and associated data in a NIH-designated repository according to the accelerated timelines expected in the GDS Policy?

Yes ☒ No ☐ Not Applicable ☐

- b. Do you anticipate that when sharing you will be able to meet the [expectations of the Institutional Certification](#) in the GDS Policy?

Yes ☒ No ☐ Not Applicable ☐