

Apply for a Glue Grant to partner with the KPMP

Kidney Precision Medicine Project (KPMP)

Recent advances in multi-scale interrogation of human tissue and single cells have set the stage for precision medicine to be applied to kidney disease. [The objectives of the Kidney Precision Medicine Project](#) are to ethically and safely obtain and evaluate human kidney biopsies from participants with Acute Kidney Injury (AKI) or Chronic Kidney Disease (CKD), create a kidney tissue atlas, define disease subgroups, and identify critical cells, pathways and targets for novel therapies. Specifically, the KPMP aims to develop or facilitate:

1. **Public resource.** Establish a publicly available data hub with clinical, imaging, cellular and molecular data. Anonymized data will be available to the research community upon validation.
2. **Kidney tissue atlas.** Create a set of maps used to classify and locate different cell types and interstitial components. The atlas will help define disease subgroups and identify cells, pathways and targets for novel therapies.
3. **State/transition markers.** Identify a set of cellular and molecular markers that classify cells as healthy, injured, activated, or undergoing recovery via adaptive or maladaptive repair.
4. **Disease subgroups.** Use all available data, including the kidney tissue atlas, to define patient subgroups and allow for clinical stratification into distinct endophenotypes.
5. **Molecular pathways.** Use data to identify and understand healthy and disease pathways that are activated in a particular cell type in a particular subgroup of patients.
6. **Biomarkers.** Discover a set of subgroup and pathway biomarkers. Ideally plasma or urine protein/antibody pairs, but could be urinary exosomes, miRNA, epigenetic marks, etc.

KPMP Opportunity Pool

The KPMP recognizes that it must collaborate with the broader research community to fully achieve these objectives. Thus, the KPMP Central Hub will administer an “Opportunity Pool” to facilitate the formation of new partnerships.

Funding Opportunity Announcement

This solicitation aims to form new collaborative partnerships by providing “glue grants” to investigators working in areas of high relevance to the KPMP and currently supported by other significant non-KPMP funding sources. Examples of other significant funding sources include, but are not limited to, an NIH R01, RC2, DP3, or U01 award, or a VA MERIT award.

Successful glue grants are expected to be mutually beneficial. Applicants should describe how their “parent” project will benefit from being part of the KPMP and how the KPMP will benefit from partnering with the “parent” project. Specifically, glue grant funding will provide a supplement of up to \$60,000 total costs per year to the “parent” project to support sharing, harmonization, and integration

with the KPMP of relevant data, samples, tissues, reagents, technologies, tools, software, analytic pipelines, expertise, etc.

If the proposed research involves human subjects, then applicants are encouraged to provide a written commitment from their local IRB to obtain consent for people to participate in the KPMP and for the collection, use, and sharing of human samples and appropriate affiliated metadata for research purposes. Award is contingent on IRB approval.

Glue Grant awardees will become full members of the KPMP and have the same responsibilities and access to data and results as other KPMP awardees. As such, all awardees must adhere to the KPMP [Publications and Presentations \(P&P\)](#) language and the participating **Institution(s)** must sign the KPMP [Confidential Disclosure Agreement \(CDA\)](#) and [Material Transfer Agreement \(MTA\)](#) documents.

Foreign Institutions are eligible to apply.

Application

Five (5) page applications may request up to **\$5,000 total costs per month** and are invited on a rolling basis beginning **June 3, 2019**.

Eligible projects must be working in areas of relevance to the objectives of the KPMP, have significant independent funding, and participate fully in the KPMP, including sending representatives to all relevant KPMP meetings. Interested parties should apply for “glue grant” funding by submitting the following to the KPMP Central Hub:

- Name(s), address(es), and telephone number(s) of the PD(s)/PI(s)
- Names of other key personnel
- Participating institution(s)
- Project period (project start, and end dates documented in the “parent” Notice of Grant Award)
- Title of the funded “parent” research project
- Abstract of the funded “parent” research project
- Description of the “parent” project’s relevance to the KPMP (how the project will benefit from being part of the KPMP and how the KPMP will benefit from collaborating with the “parent” project). This section should consider the sharing, harmonization, and integration with the KPMP of relevant data, samples, tissues, reagents, technologies, tools, software, analytic pipelines, expertise, etc. Provide an explicit list of what will be shared, when it will be shared, and how much of it will be shared.
- Applicants must state a willingness to travel key personnel two times a year to the Bethesda, MD area for KPMP meetings.
- Applicants must state a willingness to adhere to all KPMP practices, protocols, and policies.
- If the proposed research involves human subjects, then applicants are encouraged to provide a written commitment from their local IRB to obtain consent for people to participate in the KPMP and for the collection, use, and sharing of human samples and appropriate affiliated metadata for research purposes.
- All applications must be submitted via the KPMP website (PDF format only please).

In general, glue grants are expected to prepare the awardee(s) to submit future investigator-initiated projects (e.g. NIH R01).

Budget

- Applications of 5 pages may request up to \$5,000 (direct + indirect costs) total costs per month for every month remaining on the funded “parent” award. For example, if the “parent” project has 36 months (or 3 years) remaining, then the applicant may request a onetime supplement of \$180,000 total costs (to provide \$60,000 per year for 3 years upon carry forward). These costs must include travel of key personnel two times a year to the Bethesda area for KPMP meetings.
- Applicants are NOT allowed to request funds to support any activities beyond the final funded year of the “parent” award.
- Awards will be made as subcontracts from the KPMP Central Hub (CH) at the University of Washington and not directly by the NIDDK.
- The number of awards will depend upon the number, quality, duration, and cost of the applications received.
- Funded awards are not allowed to submit a competitive renewal application and unfunded applications are not allowed to revise and resubmit an amended application.

Peer Review

- Each application will receive a primary review by multiple external referees and be given scores for Significance, Investigator, Innovation, Approach, and Environment and an Overall Score based on the NIH Scoring System. Scores will range from 1 to 9, where a score of 1-3 indicates an application addressing a problem of high importance/interest in the field and may have some or no weaknesses. A score of 4-6 may be addressing a problem of high importance in the field, but weaknesses in the criteria bring down the overall impact to medium. A score of 7-9 may be addressing a problem of moderate/high importance in the field, but weaknesses in the criteria bring down the overall impact to low. A score of 5 is considered an average score. Please note that the Overall Score is NOT an average of the other scores.
- Reviewers will also strongly consider the following review criteria:
 - Does the application propose to form a new partnership that will add significant value to the KPMP?
 - Is there a high likelihood that the formation of this new partnership will be mutually beneficial to both the KPMP and the “parent” award?
 - Does the application provide an explicit list of what will be shared, when it will be shared, and how much of it will be shared? Are adequate plans for harmonization and integration discussed?
 - Are the proposed milestones, deliverables, and timeline appropriate and feasible?
 - Does the applicant(s) state a willingness to travel key personnel two times a year to the Bethesda, MD area for KPMP meetings?
 - Does the applicant(s) state a willingness to adhere to all KPMP practices, protocols, and policies?
- Applications that are incomplete, non-compliant and/or nonresponsive will not be reviewed.

- No additional materials may be submitted after the receipt date.
- Scientists from the applicant institution are in conflict and excluded from review.
- Written comments will be provided for all reviewed applications.
- Reviewed applications will be considered by the KPMP Steering Committee (SC) and approved the KPMP External Expert Panel (EEP). Final funding decisions will be made by the NIDDK.
- All decisions are final, and appeals will not be accepted for applications submitted in response to this solicitation.

Timetable

Rolling submission and approval. Please note that rolling submission will begin June 3, 2019.

Eligible Project Directors/Principal Investigators

- Applicants (including all funded key personnel listed on the “parent” award) must NOT be currently supported by the KPMP.
- Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution to develop an application for support.
- Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support.
- Early Stage Investigators are encouraged to apply, but they must have a full-time faculty position or an equivalent position at non-academic institutions.

Eligible Organizations

Higher Education Institutions

- Public/State Controlled Institution of Higher Education
- Private Institution of Higher Education

The following types of Higher Education Institutions are encouraged to apply for support as Public or Private Institutions of Higher Education:

- Hispanic-serving Institution; Historically Black Colleges and Universities (HBCUs);
- Tribally Controlled Colleges and Universities (TCCUs)
- Alaska Native and Native Hawaiian Serving Institutions; Nonprofit with 501(c)(3) IRS Status (Other than Institution of Higher Education)

Nonprofits Other Than Institutions of Higher Education

- Nonprofits with 501(c)(3) IRS Status (Other than Institutions of Higher Education)
- Nonprofits without 501(c)(3) IRS Status (Other than Institution of Higher Education)

For-Profit Organizations

- Small Businesses

- For-Profit Organization (Other than Small Businesses)

Foreign Institutions

- Non-domestic (non-U.S.) Entities (Foreign Institutions) are eligible to apply.
- Non-domestic (non-U.S.) components of U.S. Organizations are eligible to apply.
- Foreign components, as defined in the NIH Grants Policy Statement, are allowed.

Policies

Human Subjects. If the proposed research involves human subjects, then applicants must have approval from their local IRB prior to award to obtain consent for people to participate in the KPMP and for the collection, use, and sharing of human samples and appropriate affiliated metadata for research purposes.

Progress Reports. A written summary of progress of funded projects is due annually and following the completion of the funding period.

Sharing. Awardees must comply with the Public Health Service (PHS) policies relating to distribution of unique research resources produced with PHS funding and sharing of all research protocols, data, samples, and other research resources. Appropriate agreements must be executed prior to resource and data sharing. For further information, see the NIH Data Sharing Policy at

https://grants.nih.gov/grants/policy/data_sharing/.

- The NIDDK intends the resource sharing plans for the data and samples generated under the KPMP to follow the policy and objectives stated in the original KPMP FOAs. Specifically, consistent with achieving the objectives of the KPMP, all study data (including, but not limited to, raw data, metadata, digital pathology images, and computational data sets), protocols (including analytical methods), technologies, biological samples (including but not limited to biopsies, nephrectomy tissue, tissue blocks, all slides in any form, blood, urine and stool) and other research resources are to be shared immediately across the consortium, and made publicly available to the larger community as soon as quality control procedures have been completed, and in accordance with KPMP Steering Committee (SC) policies, subject to approval by the NIDDK. Data derived from participant clinical records linked to biological data will only be made publicly available once risk of explicit or inferred identification has been mitigated in consultation with the KPMP Community Engagement Working Group and the Data and Safety Monitoring Board. Limited exceptions to the requirement for community dissemination may be identified by the KPMP SC and are subject to approval by the NIDDK. The NIDDK, in consultation with the SC for this project, will make all final decisions concerning data and sample deposition and data access policies, and all policies are subject to change by the NIDDK as deemed necessary to sustain program principles and priorities, or to ensure the highest standards for responsible research conduct within the project.
- Awardees will comply with and implement the recommendations and decisions of the SC with respect to the sharing of information, data, biosamples, protocols, resources, methods and analyses developed by the KPMP investigators under the KPMP.

Acknowledgment. Awardees must acknowledge the KPMP in all posters, manuscripts or scientific materials generated in part or whole using funds from the KPMP using the following text: "Research

reported in this [poster/manuscript] was supported by the National Institute of Diabetes and Digestive and the Kidney Diseases (NIDDK) Kidney Precision Medicine Project (KPMP) Opportunity Pool, (www.kpmp.org), under award number U2CDK114886.”

Contact Information

For questions, contact: KPMP Administrator at kpmp@uw.edu