

Announcement of 2022 LLUSD Faculty Interdisciplinary Translational Research Grant

The Dean of Loma Linda University School of Dentistry (LLUSD) and the Associate Dean for Research (CDR) are pleased to announce the 2022 LLUSD Faculty Interdisciplinary Translational Research Grant.

Purpose and Objectives

This grant is to foster collaborative translational dental research that has the potential to:

1. Augment prevention strategies in dentistry
2. Improve delivery of patient care
3. Treat or cure major oral diseases

It is hoped that the successful proposal will be a springboard for application for extramural grant funding opportunities.

Description:

One (1) award of \$50,000 will be given to a successful proposal.

- Term of award: 12 months, with one extension of 12 months if justifiable.
- Letter of Intent must be submitted no later than Monday, August 9, 2021.
- Deadline for submission: Tuesday, September 21, 2021, 5:00 PM.
- Notice of Award: December 2021.

Eligibility

1. One Co-Principal Investigator (Co-PI) must have a primary appointment as a LLUSD faculty member; the other Co-PI shall be from another LLU school or an accredited, non-LLU school of dentistry.
2. Neither of the Co-PIs shall have had \$100,000 dollars or greater in direct research funding in the last 12 months preceding the announcement.
3. All Co-PIs must have a faculty appointment of at least 6/10 in each school.

Criteria for Evaluation

Proposals will be judged based on innovation, clinical significance, originality and technical merit. In addition, proposals will be judged based on the ability to be translated quickly from the laboratory to the clinic to achieve the objectives previously listed. Investigators are encouraged to state clearly the significance and impact that the proposed research will have in the field of dentistry and support the proposal with unpublished or published preliminary data. In the absence of preliminary data, investigators are strongly urged to supply robust literature review to support the proposal. Further, Co-PIs must demonstrate strong departmental support in terms of time and facilities available to perform the research proposed.

Application Format

Text must be 11 point or larger with six lines per inch and margins of at least one-half inch. The sections identified below may not exceed their indicated page limits.

The following headings are expected.

Title Page

(One page): Include the title of the project, names of Co-PIs, their contact information (including institutional e-mail, phone numbers, name of department or center), a list of all key personnel involved in the project, and total dollars requested.

Abstract & Key Words

(500 words): The abstract should briefly state the significance and goals of the proposed study and summarize the work to be accomplished. It should be suitable for assigning the application to appropriate reviewers. Four to six key words are required to identify the general area of research and the principle elements of the study.

Biographical Sketches

(five pages per investigator): Provide bio sketches of the principal investigators and other significant personnel using current NIH guidelines (see the Biographical Sketch Format Page and Biographical Sketch Sample at <http://grants.nih.gov/grants/forms/biosketch.htm>).

Budget

(Template generated in LLeRA): Design a complete budget for up to 12 months of support. Identify amounts for each PI, expenditures for non-faculty salaries, supplies, and miscellaneous costs. Only non-faculty salaries and wages are permitted. No equipment purchases (\$5,000 or more), travel expenses, or indirect costs, are supported. The total budget may not exceed \$50,000 with neither Co-PI allocated more than \$40,000. No carryover of funds will be permitted beyond 24 months from the date of award activation.

Budget Justification (one page):

Indicate the purpose of supplies, support personnel and other costs.

Research Plan (ten pages):

Provide information for the five subsections described below:

- A. Specific Aims** (one page): Summarize the overarching problem that is under investigation. State the hypothesis or objective(s) and list the specific aims of the proposed project and their overall significance or impact.
- B. Leadership Plan** (one page): Both PIs must make major contributions to the project with responsibility for about half of the study activities. Indicate the individual research assignments of the PIs. State how the PIs will coordinate their activities, resolve problems, and allocate responsibilities for management and reporting. If the proposal involves a non-LLU Co-PI and the use of human subjects or animals, describe plans for applicable IRB/IACUC approval by the other institution.
- C. Background and Significance** (one page): Describe the background leading to the present application. State the significance and usefulness of the proposed research to unsolved problems in science, healthcare, public health, society, the environment, industry, agriculture, etc.

D. Research Design and Methods (six pages): Describe the procedures to be used to accomplish the specific aims. Include preliminary data, when available. Diagrams, figures and tables should be embedded in the text. Emphasize the novel concepts, approaches, tools, or technologies involved in the proposed studies. Discuss potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims. Explicitly address how the data will be treated statistically, analyzed and interpreted.

E. References (fifteen references maximum)

F. Letters of Support:

Letters of support from key personnel and consultants are encouraged.

Compliance: When the proposal involves stem cells, radiation, laboratory animals, human subjects, or another component that requires the approval of a separate committee, integrate the descriptions into the Research Strategy section. If the proposal is awarded, separate applications must be made to the appropriate committee before the work can begin, e.g., Institutional Animal Care and Use Committee (IACUC), Institutional Review Board (IRB), Institutional Biosafety Committee (IBC), Stem Cell Research Oversight Committee (SCRO).

Progress and Final Reports

A progress report is due 6 months after award account activation. It will include a summary of results and observations, an assessment of the rate of progress, whether the study is on track for completion by the end of the project period and anticipated changes in the research plan with their justification. No extensions of the project period are permitted. Within 30 days of the end of the project period, a final report is due. It should include accomplishments, significant results, manuscripts prepared for publication, and plans for extramural grant applications.

Intent to Apply and Application Process

Intent to submit an application must be indicated by completing the [Letter of Intent form](#) (*including the signatures of both PIs* and submitting it to Research Affairs via email (researchaffairs@llu.edu) or fax (909-558-0244) by **5 PM**, Monday, August 9, 2021. Questions should be directed to Cindy Dickson (cdickson@llu.edu). An electronic record will be created into which the application will be loaded. Applications must be submitted electronically through the LLeRA Proposal Development module by **5 PM**, Tuesday, September 21, 2021. A printed, fully executed institutional transmittal form (available at <http://researchaffairs.llu.edu/sites/researchaffairs.llu.edu/files/docs/llu-transmittal-form.pdf>), signed by the PI, department head, and head of each school, is required by the application deadline (Tuesday, September 21, 2021, 5 PM.)

Contacts:

- General Information: Yiming Li, ext. 88069
- Technical and Application Guidance: Cindy Dickson, ext. 44571
- Budget and Financial Advice: Pre Award, ext. 44589