

## **Announcement of 2015 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 2015-16 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 due: October 1, 2015, 5 PM
- Deadline for submission: October 29, 2015, 5 PM
- Notice of Award: February 4, 2016

### **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significance and impact that the proposed research will have in the field of dentistry and support the proposal with unpublished or published preliminary data.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) 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 biosketches of the principal investigators and other significant personnel in the format provided below (see Appendix).

**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 (\$2,500 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)

**Animal Studies or Human Subjects:** When laboratory animals or human subjects are involved, integrate those descriptions into the Research Design and Methods section. If the proposal is awarded, separate applications for the use of animals or for the involvement of human subjects must be submitted for approval by the Institutional Animal Care and Use Committee or by the Institutional Review Board (IRB), respectively, before the initiation of the study.

### **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 (<http://www.llu.edu/assets/research-affairs/docs/loi-internal-rfa.pdf>) **including the signatures of both PIs** and submitting it to Research Affairs via email ([researchaffairs@llu.edu](mailto:researchaffairs@llu.edu)) or fax (909-558-0244) by **5 PM, October 1, 2015**. Questions should be directed to Sherie Donahue ([sdonahue@llu.edu](mailto:sdonahue@llu.edu)) or Cindy Dickson ([cdickson@llu.edu](mailto: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, Thursday, October 29, 2015**. A printed, fully executed institutional transmittal form (available at [http://www.llu.edu/research-affairs/forms-and-online-tools.page#llu\\_transmittal](http://www.llu.edu/research-affairs/forms-and-online-tools.page#llu_transmittal)), signed by the PI, department head, and dean of each school, is required by the application deadline (Thursday, October 29, 2015, 5 PM.)

### **Contacts:**

- General Information: Yiming Li, ext. 88069
- Technical and Application Guidance: Sherie Donahue, ext. 83911 and Cindy Dickson, ext. 44571
- Budget and Financial Advice: Robin Bailey, ext. 44589

## **Appendix**

### **Biographical Sketch Format (Excerpts from the NIH Application Guide SF424)**

Use the sample format on the Biographical Sketch Format Page (for details see following link <http://grants.nih.gov/grants/funding/424/index.htm>) to prepare this section for grant applications. Include biographical sketches of all Key Personnel and other significant contributors. The Biographical Sketch may not exceed four pages per person. This 4-page limit includes the table at the top of the first page.

If the individual is registered in the eRA Commons, include the Commons User Name for the PIs and all other Senior/Key Persons. For information on the eRA Commons, see <https://commons.era.nih.gov/commons/index.jsp>.

Complete the educational block at the top of the format page beginning with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training, separately referencing residency training when applicable. For each entry provide the name and location of the institution; the degree received (if applicable); the month and year the degree was received, and the field of study. For residency entries, the field of study section should reflect the area of residency.

Following the educational block, complete sections A, B, C, and D as described below.

- A. Personal Statement. Briefly describe why your experience and qualifications make you particularly well-suited for your role (e.g., PI, co-investigator, mentor) in the project that is the subject of the application.
- B. Positions and Honors. List, in chronological order, previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.
- C. Peer-reviewed publications or manuscripts in press (in chronological order). Limit the list of selected peer-reviewed publications or manuscripts in press to no more than 15. Do not include manuscripts submitted or in preparation. The individual may choose to include selected publications based on importance to the field and/or relevance to the proposed research. When citing articles that fall under the Public Access Policy, provide the PubMed Central (PMC) reference number (e.g., PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal – In Process." Citations that are not covered by the Public Access Policy, but are publicly available in a free, online format may include URLs or PMCID numbers along with the full reference (note that copies of publicly available publications are not acceptable as appendix material).
- D. Research Support. List both selected ongoing and completed (during the last three years) research projects (federal or non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and responsibilities of the Senior or Key Person identified on the Biographical Sketch. Do not include number of person months or direct costs.

The "Research Support" section of the biographical sketch should highlight your accomplishments, and those of your colleagues, as scientists. This information will be used by the reviewers to assess each individual's qualifications for a specific role in the proposed project, as well as to evaluate the overall qualifications of the research team. In contrast, "Other Support" information is required for all applications that have already received extramural grant awards.