**Center for Research on Ingredient Safety**

***Instructions and Application for Spring 2017 CRIS RFP***

***Due Date: Tuesday, January 31, 2017 (5 PM ET)***

**PURPOSE**

The *Center for Research on Ingredient Safety (CRIS)* is a partnership between MSU and Arizona State University with support from CRIS members, the Institute for Integrative Toxicology, and the Vice President for Research and Graduate Studies. CRIS’s mission is to *conduct research and provide insight on the safety of ingredients in food and consumer products to support evidence-informed decisions by consumers, industry leaders and policy makers.* The purpose of the RFP is to support that mission by providing seed funding to members of MSU faculty for cutting-edge areas of ingredient safety research and to advance scientific inquiry. Grant proposals may be in the following areas:

* Applications of alternative testing for ingredient safety
* Effects of ingredients on microbiota
* Impact of Maillard Reaction products on food safety
* Applications of exposure science / modeling for ingredient safety
* Mycotoxins and food safety
* Investigator-initiated proposals relevant to CRIS mission

The goal of the RFP is to enable investigators to generate a sufficient body of preliminary information for a successful application for major research funding from NIH or other national granting agency.

**ELIGIBLITY**

Individuals who have full-time facultypositions at Michigan State University are eligible to apply. The intent of this grant is to foster new areas of research and new collaborations on campus.

**APPLICATIONS**

Proposals should be for one year of support, with total requested funding **up to $75,000 direct costs**. Funding will be provided in two (2) staggered payments. Initial payment of $40,000 will begin on May 1, 2017. With documentation of sufficient progress toward the specific aims spelled out in the proposal, the remainder ($35,000) will be distributed by October 1, 2017.

Each proposal will receive extramural peer review by recognized experts from our Emerging Issues Committee in the area of the proposal from the United States and abroad. Funding of project(s) that receive favorable reviews is anticipated to begin effective May 2017. Grant awardees will be queried by CRIS staff and are required to provide a progress report by September 1, 2017. A final progress report is expected by April 30, 2018.

Applications must be prepared using the Sring 2017 application and instructions and must not exceed the page limits specified in each section. The application should be prepared using **Arial 11 point font with** **margins of at least 0.5 inches.** Do not submit appendices since such material will not be reviewed.

Applications involving the use of animals must provide documentation of Institutional Animal Care and Use Committee (IACUC) approval before they are funded.

Applications involving human subjects must provide documentation of IRB approval before they are funded.

**Application Due Date: Tuesday, January 31, 2016 (5 PM)**

**Send application materials to Heather Dover at** **doverhea@msu.edu** **by the application deadline. Late or incomplete applications will not be accepted.**

**INSTRUCTIONS**

**Download the cover letter and the application templates from the CRIS website at**

<http://cris.msu.edu/research.html>.

**Cover letter:** All applications must be accompanied by a cover letter. The cover letter must include the name of the applicant, the title of the proposal, type of research, and the names, title, affiliation (department, institution), contact information (including email address and telephone numbers), and expertise of at least three (3) potential reviewers outside of Michigan State University. Reviewers should not have trained, collaborated, or published with the applicants or other key personnel for at least five (5) years and must not have other conflicts of interest with the applicants. The cover letter may also include the names of potential reviewers you wish to exclude from the review process.

**Application:** This application closely reflects the current NIH electronic format. All portions should be converted to .pdf format and compiled into a single file for submission. The final .pdf version should contain the last name of the PI(s) in the upper right hand corner of every page. All pages should be numbered sequentially in the bottom right-hand corner.

* **Face page** (From pages 1-2). Complete the face page with all relevant information.
* **Abstract**. Maximum 250 words.
* **Detailed Budget** (direct costs only). Complete the budget pages for each Principal Investigator. CRIS funds may not be used for salary support for the Principal Investigator(s), travel expenses, or equipment (i.e., durable items costing over $5000). CRIS funds may be requested for supplies, services, or salary support for a study coordinator, research assistant or trainee.
* **Budget Justification**. For each Investigator, insert a single page justifying under separate budget categories the request for Personnel, Supplies/Services, and Other Expenses. Additionally, a detailed budget is to be included with the application, using the CRIS Budget Template.
* **Biographical Sketches**. Insert the current NIH format Biosketch for each PI and other Key Personnel (http://grants.nih.gov/grants/forms.htm). The biosketch must contain a personal statement emphasizing the relevance of the investigator’s research to CRIS and adhere to NIH page limits.
* **Research Plan**. Provide a detailed plan of the proposed research. The scope of the research plan should match the limited size and duration of a CRIS project. Page limits for each section are outlined below. **The total length of sections F1-F6 must not exceed 11 pages.** The application should be prepared using **Arial 11 point font with margins of at least 0.5 inches all around.**

 **A RESEARCH PLAN THAT EXCEEDS THE PAGE LIMITS WILL NOT BE REVIEWED.**

 F1. **Specific Aims:** One (1) page.

F2. **Introduction, including Relevance to Ingredient Safety**: Two (2) pages. This section must contain a clear explanation of the relevance of the proposed project to **INGREDIENT SAFETY**. It will be a key factor (in addition to scientific merit) influencing whether an award will be made.

F3. **Plans for Future Funding of the Project:** One-half (1/2) page. Assuming that this grant has a positive outcome, explain in detail **HOW** the results obtained will serve as the basis for an application for major research funding from NIH or other national granting agencies. *Please note that simply stating that the results obtained will be used to* *apply for a grant (or other words to that effect) is insufficient.*

 F4. **Preliminary Work by Applicants:** One (1) Page.

F5. **Experimental Design:** Five (5) pages. Established methods may be referenced rather than described in detail.

F6**. Nature of the Project and How It Meets the Goal of the CRIS RFP:** One (1) page.

The purpose of this CRIS RFP is to promote new areas of research and collaboration between members of Michigan State University faculty to focus their combined research strengths on cutting-edge areas in ingredient safety research. The intent is to foster synergistic collaboration between faculty members to advance scientific inquiry. Grant proposals may be in the following areas: application of alternative testing for ingredient safety, gut microbiome and ingredient safety, impact of Millard Reaction products on food safety, application of exposure science using dietary intake, toxicology of mycotoxins, or investigator-initiated proposals relevant to CRIS mission. The goal of the RFP is to enable investigators to generate a sufficient body of preliminary information for a successful application for major research funding from NIH or other national granting agency.

 F7. **References:** (No Limit). Use Vancouver citation style.

Author AA, Author BB, Author CC, Author DD. Title of article. Abbreviated title of journal. Date of publication YYYY Mon DD;volume number(issue number):page numbers

* **Resources**. Insert one (1) page for each PI/Co-PI detailing the resources available for the completion of the proposed project, including: Laboratory, Clinical, Animal, Computer, Office, Other, and listing of Major Equipment.
* **Letter(s) of Support**. Each PI/Co-PI must include a letter of support from their department chair that states how receiving this award will facilitate the PI’s/Co-PI’s path to independence and indicates how the PI’s/Co-PI’s salary effort will be covered.

**CENTER FOR RESEARCH ON INGREDIENT SAFETY**

**Spring 2017 CRIS RFP FACE PAGE**

**PROPOSAL TITLE:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PRINCIPAL INVESTIGATOR:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

FACULTY POSITION: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEPARTMENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ADDRESS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TELEPHONE/E-MAIL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CO-INVESTIGATOR**

**(If relevant):**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

POSITION: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEPARTMENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ADDRESS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TELEPHONE/E-MAIL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CO-INVESTIGATOR**

**(If relevant):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

POSITION: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEPARTMENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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TELEPHONE/E-MAIL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The applicant agrees to accept responsibility for the scientific and technical conduct of the research project and agrees to all terms and conditions of the CRIS RFP.

SIGNATURE OF PRINCIPAL INVESTIGATOR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_

SIGNATURE OF DEPARTMENT CHAIR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_

**TYPE OF RESEARCH (Check One):**

1.\_\_\_\_\_\_\_\_\_ Applications of alternative testing for ingredient safety

2.\_\_\_\_\_\_\_\_\_ Microbiome and ingredient safety

3.\_\_\_\_\_\_\_\_\_ Impact of Maillard Reaction products on food safety

4.\_\_\_\_\_\_\_\_\_ Applications of exposure science for ingredient safety

5.\_\_\_\_\_\_\_\_\_ Mycotoxins and food safety

6.\_\_\_\_\_\_\_\_\_ Investigator-initiated proposal relevant to CRIS mission

**USE OF HUMAN SUBJECTS:** \_\_\_\_\_\_\_\_\_\_ NO \_\_\_\_\_\_\_\_\_\_\_\_ YES

IF YES, IRB APPROVAL NUMBER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*(Not required for application, but must be provided prior to funding)*

APPROVED INVESTIGATOR(S) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**USE OF VERTEBRATE ANIMALS:** \_\_\_\_\_\_\_\_\_\_ NO \_\_\_\_\_\_\_\_\_\_ YES

IF YES, IACUC APPROVAL NUMBER(S) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_

*(Not required for application, but must be provided prior to funding)*

APPROVED INVESTIGATOR(S) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HAS THIS PROPOSAL BEEN SUBMITTED TO ANY OTHER PEER REVIEW AGENCY?

\_\_\_\_\_\_NO \_\_\_\_\_\_YES

IF YES, WHAT AGENCY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DATE SUBMITTED\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DATE WHEN OUTCOME WILL BE KNOWN\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**APPLICANT ELIGIBILITY:**

**Principal Investigator**

1.\_\_\_\_\_\_\_\_NEW INVESTIGATOR BEGINNING CAREER IN INGREDIENT SAFETY RESEARCH

2.\_\_\_\_\_\_\_\_ESTABLISHED INVESTIGATOR TRANSFERRING EXPERTISE TO RESEARCH ON

INGREDIENT SAFETY

3.\_\_\_\_\_\_\_\_ESTABLISHED INGREDIENT SAFETY INVESTIGATOR PROPOSING A PROJECT THAT **IS NOT** AN

EXTENSION OR OUTGROWTH OF HIS/HER CURRENT RESEARCH

IF OPTION 2 OR 3 IS SELECTED, PROVIDE A BRIEF JUSTIFICATION BELOW FOR YOUR CHOICE

(Do not exceed the space remaining on this page):

**B. SCIENTIFIC ABSTRACT** (Not to exceed 250 words)

**C. DETAILED BUDGET** (Insert completed CRIS budget template with budget justification)