



UM Summer Biomedical Research Program

Application Deadlines

12/15/2015 Deadline for securing a mentor

1/24/2016 Deadline for students to complete their portion of the on-line application

1/31/2016 Deadline for mentors to complete their portion of the on-line application.



UM Summer Biomedical Research Program

The SBRP Application

- Title (20 words)
- Hypothesis (750 characters including spaces)
- Background (2500 characters including spaces)
- Research Design and Methods (3500 characters including spaces)
- What will be the specific tasks, activities and responsibilities of the student on a daily basis (1000 characters including spaces)



UM Summer Biomedical Research Program

The SBRP Application (Continued)

- Significance (750 characters including spaces)
- References (4000 characters including spaces)



UM Summer Biomedical Research Program

Review Criteria (5 points each)

1. Clear statement of problem, research question and hypothesis.
2. Evidence of scholarly and critical literature review
3. Research design and methodology are appropriate to answer the research question/hypothesis.
4. Student role and activities are clearly defined
5. Student/mentor relationship is strong, and there is evidence of active mentoring throughout the proposal.



Title (20 Words)

- **Summarize Project in 20 words**
- **“Influence of preoperative fasting blood sugar guideline implementation on fasting blood sugar values before surgery”**
- **Not a critical part of the application**



Hypothesis (750 characters)

First Review Criteria:

Criteria 1. Clear statement of problem, research question and hypothesis.



Hypothesis (750 characters)

- All research proposals require hypotheses. For example even if you are doing a survey or questionnaire you must have some hypothesis as to the results
- The hypothesis section seems simple yet it is the most difficult part of any grant application.



Hypothesis (750 characters)

A good hypothesis section:

- The Background Sentence
- The “Not Known” Sentence
- The Hypothesis



Hypothesis (750 characters)

A good hypothesis section:

“Treatments with O-sialoglycoprotein endopeptidase (OSGE) in old mice have been shown to reverse age-related declines in activation and proliferation of CD4+ T cells. However, it is not known whether OSGE treatments can restore B cell maturation and antibody production by enhancing late CD4+ activation and expansion. We hypothesize that OSGE treatments can reverse age-related declines in antibody production in mice.”



Background (2500 characters)

Second Review Criteria: Evidence of scholarly and critical literature review

- Most student get good scores on this part.
- Put in all information you need to understand the application.
- References are critical.



Research Design and Methods (3500 characters)

- Third Review Criteria: Research design and methodology are appropriate to answer the research question/hypothesis.



Research Design and Methods (3500 characters)

- Its **Research Design** and Methods
- What are you going to do?
- How are you going to do it?
- How are you going to analyze the results?



What will be the specific tasks, activities and responsibilities of the student on a daily basis (1000 characters)

- **Fourth Review Criteria: Student role and activities are clearly defined.**



What will be the specific tasks, activities and responsibilities of the student on a daily basis (1000 characters)

- **Students in 10 weeks can only do a component of the project –we want to know what that component is.**
- **What specific duties will you perform?**
- **Who will supervise you?**

- **Fifth Review Criteria:**
Student/mentor relationship is strong, and there is evidence of active mentoring throughout the proposal.
- **Did you give your mentor adequate time to review your proposal?**



Significance (750 characters)

- **Significance is a key part of a grant application**
- **Why are you doing the research?**
- **Why is it important?**
- **Some proposals are not funded because they lack impact.**
- **Write more than a sentence.**