

# 2010-2011 James & Esther King Program Team Science Project Grant Reviewer Questions

## ***Numerical Rating Scale for Scored Questions***

*The following rating scale, using whole numbers only, will apply to all scored review criteria. The overall impact score assigned will consider the five core review criteria scores as well as the additional review criteria, but it is not a calculation of individual scores.*

<b><i>Impact</i></b>	<b><i>Score</i></b>	<b><i>Descriptor</i></b>	<b><i>Additional Guidance on Strengths/Weaknesses</i></b>
<i>High</i>	1	<i>Exceptional</i>	<i>Exceptionally strong and essentially no weaknesses</i>
	2	<i>Outstanding</i>	<i>Extremely strong and negligible weaknesses</i>
	3	<i>Excellent</i>	<i>Very strong and only some minor weaknesses</i>
<i>Medium</i>	4	<i>Very Good</i>	<i>Strong and numerous minor weaknesses</i>
	5	<i>Good</i>	<i>Strong and at least one moderate weakness</i>
	6	<i>Satisfactory</i>	<i>Some strengths and some moderate weaknesses</i>
<i>Low</i>	7	<i>Fair</i>	<i>Some strengths and at least one major weakness</i>
	8	<i>Marginal</i>	<i>A few strengths and a few major weaknesses</i>
	9	<i>Poor</i>	<i>Very few strengths and numerous major weaknesses</i>
<p><b><i>Minor Weakness:</i></b> An easily addressable weakness that does not substantially lessen impact  <b><i>Moderate Weakness:</i></b> A weakness that lessens impact  <b><i>Major Weakness:</i></b> A weakness that severely limits impact</p>			

## **CORE REVIEW CRITERIA**

Each of the five review criteria below are considered in the determination of the overall impact. A separate score is also give for each criterion.

**Significance:** Does the project address an important problem or a critical barrier to progress in the field? If the aims of the project are achieved, to what extent will scientific knowledge, technical capability, and/or clinical practice be improved? How much will successful completion of the aims change the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field?

**Rating: [1 to 9]**

**Strengths:**

**Weaknesses:**

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**Investigator(s):** Are the PD/PIs, collaborators, and other researchers well suited to the project? Have they demonstrated an ongoing record of accomplishments that have advanced their field(s)? Do the investigators in this collaborative project have complementary and integrated expertise; are their leadership approach, governance and organizational structure appropriate for the project?

**Rating: [1 to 9]**

**Strengths:**

**Weaknesses:**

**Innovation:** Does the application challenge and seek to shift current research or clinical practice paradigms by utilizing novel theoretical concepts, approaches or methodologies, instrumentation, or interventions? Are the concepts, approaches or methodologies, instrumentation, or interventions novel to one field of research or novel in a broad sense? Is a refinement, improvement, or new application of theoretical concepts, approaches or methodologies, instrumentation, or interventions proposed?

**Rating: [1 to 9]**

**Strengths:**

**Weaknesses:**

**Approach:** Are the overall strategy, methodology, and analyses well-reasoned and appropriate to accomplish the specific aims of the project? Are potential problems, alternative strategies, and benchmarks for success presented? If the project is in the early stages of development, will the strategy establish feasibility and will particularly risky aspects be managed?

**Rating: [1 to 9]**

**Strengths:**

**Weaknesses:**

**Environment:** Will the scientific environment in which the work will be done contribute to the probability of success? Are the institutional support, equipment, and other physical resources available to the investigators adequate for the project proposed? Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements? Are any identified core facilities appropriate for the project?

**Rating: [1 to 9]**

**Strengths:**

**Weaknesses:**

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### ADDITIONAL REVIEW CRITERIA

The following additional items will be factored into the determination of an overall impact score, as appropriate.

**Project Integration and Coordination:** A TSP project must be seen as greater than the sum of its parts. Do the individual projects demonstrate synergy among investigators, shared resources, and shared research goals?

- a) Acceptable
- b) Unacceptable

**Description of any concerns and recommendations:**

**Translational Research:** At least one of the TSP projects must be translational in nature. For purposes of this initiative, translational research i) applies basic discoveries generated during research in the laboratory through pre-clinical research involving human derived tissue; ii) involves clinical trials where there are efforts that improve access to or enrollment in efforts that foster cooperative efforts to increase enrollment in clinical trials; or iii) enhances the adoption of best practices in the community. Does this proposal include at least one translational project?

- a) Acceptable
- b) Unacceptable

**Description of any concerns and recommendations:**

**Protections for Human Subjects:** For research that involves human subjects, evaluate the justification for involvement of human subjects and the proposed protections from research risk relating to their participation according to the following five review criteria: 1) risk to subjects, 2) adequacy of protection against risks, 3) potential benefits to the subjects and others, 4) importance of the knowledge to be gained, and 5) data and safety monitoring for clinical trials.

- a) Acceptable Risks and/or Adequate Protections
- b) Unacceptable Risks and/or Inadequate Protections
- c) Not Applicable (No human subjects)

**Description of any concerns and recommendations:**

**Vertebrate Animals:** For research that involves live vertebrate animals, consider the following five points: 1) proposed use of the animals, and species, strains, ages, sex, and numbers to be used; 2) justifications for the use of animals and for the appropriateness of the species and numbers proposed; 3) adequacy of living conditions and veterinary care; 4)

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procedures for limiting discomfort, distress, pain and injury to that which is unavoidable in the conduct of scientifically sound research including the use of analgesic, anesthetic, and tranquilizing drugs and/or comfortable restraining devices; and 5) methods of euthanasia.

- a) Acceptable Risks and/or Adequate Protections
- b) Unacceptable Risks and/or Inadequate Protections
- c) Not Applicable

**Description of any concerns and recommendations:**

### **OVERALL IMPACT**

*Please provide an overall impact score to reflect your assessment of the likelihood for the project to exert a sustained, powerful influence on the research field(s) involved, in consideration of the five core review criteria and the additional review criteria previously described. Briefly summarize the most important points of your critique, indicating the relative importance of the major strengths and weaknesses of the application.*

**Rating: [1 to 9]**

**Strengths:**

**Weaknesses:**

### **ADDITIONAL REVIEW CONSIDERATIONS**

Separately from the overall impact score, peer reviewers will rate the following items.

**Tobacco Relatedness:** All applicants must clearly demonstrate how the proposed research is relevant to tobacco use or diseases related to tobacco use. Biomedical and biotechnological research proposals may address the etiology, pathogenesis, diagnosis, treatment, or cure of diseases related to tobacco use such as cancer, cardiovascular disease, stroke, and pulmonary disease. Social scientific and behavioral research proposals should provide for the development, implementation, and/or evaluation of existing or novel approaches to tobacco control, tobacco education, prevention of tobacco use, nicotine addiction, or address the health needs of current and/or former smokers. Has the applicant made a compelling case for a strong tobacco relationship?

**Rating: [1 to 9]**

**Description of any concerns:**

**Budget and Period of Support:** Are the budget and the requested period of support fully justified and reasonable in relation to the proposed research?

- a) Recommend as Requested
- b) Budget Modification Requested (in amount or time)

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Recommended modifications (if any):

**Scientific or Budget Overlap:** Overlap, whether scientific or financial, or commitment of an individual's effort greater than 100 percent is not permitted. The goals in identifying and eliminating overlap are to ensure that sufficient and appropriate levels of effort are committed to the project; that there is no duplication of funding for scientific aims, specific budgetary items, or an individual's level of effort; and that funds not otherwise necessary to conduct the approved project are not included in the award.

- a) No Overlap Concerns Identified
- b) Potential Overlap Identified (changes or investigation needed)

**Description of any concerns and recommendations for follow-up and/or modifications:**

### **ADDITIONAL RECOMMENDATIONS OR OTHER COMMENTS**

Beyond the items already addressed, is there any additional advice you are willing to offer the applicant?

### **PROJECT CLASSIFICATION**

Please classify the proposed research project into the listed categories. These responses do not influence the impact scores assigned to the proposed project. Select which of the following categories best fits this proposed research project (choose one):

- a) Prevention
- b) Diagnosis
- c) Treatment
- d) Cure