Initials:

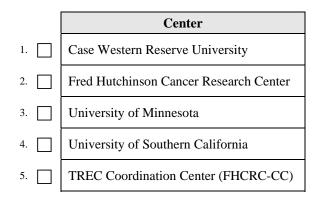
TREC

Transdisciplinary Research in Energetics and Cancer

Evaluation of Pilot Project Proposals

Instructions: Complete for each proposal. For each row in which you enter a response, write the row number in the proposal margin next to text supporting your response.

I. Indicate all TREC centers named in the proposal as participating in the project:



II. Enter all researchers named in the proposal as participating in the project as well as their research institution and their primary, and - if available - secondary and tertiary disciplines. *Select disciplines from list in Section IV, if possible*:

| | A. Researcher Name | B. Department & Institution | C. 1° Discipline | D. 2° Discipline | E. 3° Discipline |
|-----|-----------------------|--------------------------------|---------------------|----------------------------|----------------------------|
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |

- III. Indicate all **disciplines represented in the proposal** by marking the numbered checkboxes at the left side of the table below. Consider a discipline represented if it is mentioned as part of the project or is implied in the project description.
- IV. For each discipline represented in the proposal, indicate all **levels of analysis** mentioned or implied as part of the project background, data collection, intervention, or analysis.

| | | А. | В. | C. | D. | E. | F. | G. |
|-----|---------------------------------------|-------------------------|------------|--------------------------|-----------------------------------|-------------------------|------------------------|--------|
| | | Molecular & Cellular | Individual | Group & Interpersonal | Organizational & Institutional | Community & Regional | Societal & National | Global |
| 13. | Biology | | | | | | | |
| 14. | Chemistry | | | | | | | |
| 15. | City, Regional, & Urban Planning | | | | | | | |
| 16. | Economics | | | | | | | |
| 17. | Education | | | | | | | |
| 18. | Epidemiology | | | | | | | |
| 19. | Genetics | | | | | | | |
| 20. | Geography | | | | | | | |
| 21. | Health Behavior & Health Education | | | | | | | |
| 22. | Medicine | | | | | | | |
| 23. | Nursing | | | | | | | |
| 24. | Nutrition | | | | | | | |
| 25. | Physiology & Exercise | | | | | | | |
| 26. | Psychology | | | | | | | |
| 27. | Pharmacology | | | | | | | |
| 28. | Sociology | | | | | | | |
| 29. | Statistics | | | | | | | |
| 30. | Other #1 (specify): | | | | | | | |
| 31. | Other #2 (specify): | | | | | | | |

V. Indicate all **methods of analysis** mentioned or implied as part of the project background, data collection, intervention, or analysis (select all that apply):

| | | Quali | itative | Quantitative | | | |
|-----|--|------------------|-------------------------|------------------|-------------------------|--|--|
| | | A. Laboratory | B. Field observation | C. Laboratory | D. Field observation | | |
| 32. | Experiment (random assignment to conditions created by variable manipulation) | | | | | | |
| 33. | Quasi-experiment (use naturally-occurring variables for nonrandom assignment to groups) | | | | | | |
| 34. | Nonexperiment (observe without manipulation) | | | | | | |

VI. Indicate your subjective rating of the proposal regarding its **type** of cross-disciplinary integration (select one):

| 35. | Туре | Definition of cross-disciplinary integration type | Example of cross-disciplinary integration type | | |
|-----|---|--|---|--|--|
| | (1) Unidisciplinary | Unidisciplinarity is a process in which researchers from a <i>single discipline</i> work together to address a common research problem. | A team of pharmacologists collaborate on a laboratory study of the relationships between nicotine consumption and insulin metabolism. | | |
| | (2) work <i>independently</i> , each from his or her own disciplinary eventually combining efforts to address a | | A pharmacologist, health psychologist, and neuroscientist each contribute sections to a multi-authored manuscript that reviews research in their respective fields pertaining to the links between nicotine consumption, changes in brain chemistry and caloric intake induced by nicotine, and physical activity levels. | | |
| | (3) Interdisciplinary | Interdisciplinarity is an <i>interactive</i> process in which researchers work <i>jointly</i> , each drawing from his or her own discipline-specific perspective, to address a common research problem. | A pharmacologist, health psychologist, and neuroscientist conduct a collaborative study to examine the interrelations between patterns of nicotine consumption, brain chemistry, caloric intake, and physical activity levels. Their research design incorporates conceptual and methodological approaches drawn from each of their respective fields. | | |
| | (4) Transdisciplinarity is an integrative process by which researchers work jointly to develop and use a shared conceptual framework that synthesizes and extends discipline-specific theories, concepts, and/or methods to create new models and language to address a common research problem. | | A pharmacologist, health psychologist, and neuroscientist conduct a collaborative study to examine the interrelations between nicotine consumption, brain chemistry, caloric intake, and physical activity levels. Based on their discussions, they develop a neurobehavioral model of the links between tobacco consumption, brain chemistry, insulin metabolism, physical activity, and obesity that integrates and extends the concepts and methods drawn from their respective fields. | | |

VII. Indicate your overall subjective rating of the proposal regarding the **scope of transdisciplinary integration**. In other words, indicate the breadth or extent to which there is integration of analytic levels, analytic methods, and discipline-specific concepts (circle one number):

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|---|---|---|-----|--------|---|---|---|-------------|
| None | | | | Mod | lerate | | | | Substantial |

VIII. Indicate your overall subjective rating of the **general scope of proposal**. In other words, indicate the breadth or extent to which there is inclusion of various disciplines represented in the proposal, investigators from different disciplines, analytic levels, and analytic methods (circle one number):

| 37 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|------|---|---|---|-----|--------|---|---|---|-------------|
| 57. | None | | | | Mod | lerate | | | | Substantial |

- - End - -

36.