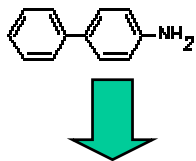


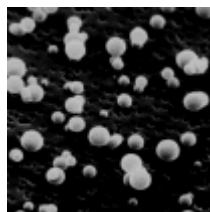
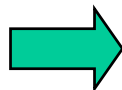
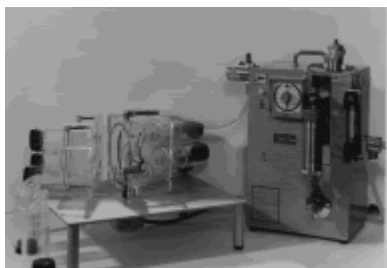
Proposal Title: *Title here in italics*

Date: March 10, 2005

Principal Investigator, Institution: *Joan H. Doe, Ph.D. Institute for the Best Research Possible (IBeRP)*



This section should provide a few graphics and text to illustrate the fundamental concept and approach to be followed.



Operational Capability:

This part of the quad chart should be devoted to a brief statement of the objective of the proposed research, and why it is critical to pursue, relative to other potentially fundable work.

Proposed Technical Approach:

- Literature investigations indicate that there are major needs for rapid methods for the determination of toxicological impact from airborne toxins.
- Based on new methodology, scoping studies in our laboratories have indicated that mixing of grape jelly with polymerize chain reaction (PCR) reagents accentuates differences in the DNA of Fisher 344 rodents after exposure to 4-aminobiphenyl and benzo(a)pyrene aerosols following 72 hours of rest on the animals part.
- IBeRP proposes to a) isolate the active ingredient in grape jelly that is responsible for response enhancement using preparatory scale HPLC followed by fraction testing using the Ames mutagenicity assay; b) combine active ingredient with PCR reagents and test airborne toxin combinations; and c) demonstrate potential biomarker efficacy following short duration (<8 week) nose only whole body tobacco smoke inhalation exposure of rodents.

Rough Order of Magnitude Cost and Schedule:

Phase/Task	Schedule	Cost (\$K)
1: Isolation of critical grape jelly components	3 months	45
2: Test isolated GJF (grape jelly factor) on 4-ABP aerosol.	5 months	100
3: GJF/PCR reagent tests on smoke exposed F344 rats	4 months	125

Deliverables:

- Submission of draft manuscript to peer-reviewed journal

Corporate Information:

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- Co-Principal Investigators: R.M. Jones and A.B.Smith