



Quorum Review, Inc.

1601 Fifth Avenue  
Suite 1000  
Seattle, WA 98101

T | 206-448-4082  
F | 206-448-4193  
quorumreview.com

03/02/2010

Jeanne T. Chowning  
c/o Jeanne T. Chowning  
Northwest Association for Biomedical Research (NWABR)  
100 W. Harrison, North Tower, Ste. 430  
Seattle, WA 98119 USA

Re: National Science Foundation  
Protocol #: N/A  
PI: Jeanne T. Chowning  
QR#: 24134/1

Dear Ms. Chowning:

Quorum Review has reviewed and approved the following material on 03/02/2010 for use during the course of the above referenced study:

- *Dear Participant Letter: Teacher Recruitment Letter*

Please note the following conditions of Quorum Review's approval of recruitment and participant study materials:

- Any changes to the content or presentation of approved material, other than site specific contact information modifications or spelling corrections, must be reviewed and approved prior to use.
- Material listed above as "Replacement Material" has been identified as a replacement for previously approved material. Approval documents for previous versions of this material no longer apply.
- Radio and television scripts to be recorded are approvable pending review and approval of a final audio/video recording. The final recording must be approved by Quorum prior to broadcast use.
- Radio scripts for live broadcast use must be read exactly as approved.
- The approval stamp on this material represents Quorum Review's approval to use the material within the context of the above identified protocol. The approval stamp does not represent an approval of the validity of the document. This material may not be used for other studies without appropriate IRB approval.

Additionally, please note that recruitment activities might implicate the HIPAA Privacy Rule. You may need to have a specific authorization to collect and use health information in conjunction with your recruitment activities. Please consult your legal counsel with any questions. If you decide you need a partial waiver of authorization for your recruitment activities, you can contact Quorum or visit our website at [www.quorumreview.com](http://www.quorumreview.com).



Quorum Review, Inc.

1601 Fifth Avenue  
Suite 1000  
Seattle, WA 98101

T | 206-448-4082  
F | 206-448-4193  
quorumreview.com

---

If you have any questions, please don't hesitate to contact the Site Support Team at (206) 448-4082. Thank you for using Quorum Review.

Sincerely,

A handwritten signature in black ink that reads 'DB Kelley, MD'.

David B. Kelley, MD  
Chairperson

CC:

Northwest Association for  
Biomedical Research (NWABR)  
Quorum Review File #

Visa Marong  
24134/1

Northwest Association for Biomedical Research  
Bio-ITEST: New Frontiers in Bioinformatics and Computational Biology

TEACHER RECRUITMENT LETTER

Principal Investigator: Jeanne Chowning, MS, Director of Education, Northwest Association for Biomedical Research (206) 957-3337x303 (office hours), (206) 200-4915 (24 hours), jchowning@nwabr.org

Bio-ITEST: New Frontiers in Bioinformatics and Computational Biology, is a federally funded program with several components. We will develop classroom materials related to bioinformatics, enhance our existing professional development for teachers, and examine the impacts of our work on student learning. We will be analyzing the extent to which we are able to provide learning experiences for students that will increase their understanding of bioinformatics, specific science content, bioethics, and careers relating to these fields.

We will target the following objectives:

- Increase student and teacher understanding of bioinformatics and the ethical issues related to the acquisition and use of biological information.
- Increase the number of high school students who are interested in bioinformatics and related STEM careers, with particular emphasis on students from underserved populations.

We would like to invite you to be in the Northwest Association for Biomedical Research educational research study to determine the extent to which the Bio-ITEST program meets these objectives.

PROCEDURES

If you choose to be in this study, we would request the following:

- 1) You would participate in the two-week Bio-ITEST professional development workshop, August 2-6 and 9-13, 2010. As part of this workshop, you would be asked to take a pre-survey prior to the workshop, and a post-survey after workshop completion.
- 2) You would pilot the Bio-ITEST lessons in your classroom over a one- to two-week period.
- 2) You will be asked to have students complete a pre-survey prior to instruction and post-survey after instruction. The survey will consist of a series of questions to answer relating to perceived STEM career interest and understanding of bioinformatics.

The student pre- and post- surveys would be done online and should take about 15 minutes to complete. They should not be graded, and will be optional for students. Students and their parents will need to sign consent forms to participate in this study. We would code all surveys to protect student and teacher privacy. Only the research team would have access to the surveys. They would be kept in a locked file cabinet or on a computer with a password. No personal identifying information will be associated with teacher or student work.

You can stop being in the study itself at any time. If you wish to stop being in the study, please contact Jeanne Chowning, Principal Investigator, at 206-957-3337 x303.

The attached Teacher Consent Form outlines the purposes and benefits, procedures, and possible discomforts/stress associated with participation in the research study. Thank you for considering involvement in our research study.

Jeanne Chowning, MS  
Printed name of researcher

Signature of researcher

QUORUM REVIEW  
APPROVED

MAR 02 2010

Date  
INSTITUTIONAL  
REVIEW BOARD