

## Score for Botvinnik, Olga

### Intellectual Merit Criterion

#### Overall Assessment of Intellectual Merit

Excellent

#### Explanation to Applicant

Very well written proposal that outlines some very interesting and relatively sophisticated research plans. The student clearly has the necessary requisites to succeed in her chosen career and I found her personal statement and philosophy compelling.

### Broader Impacts Criterion

#### Overall Assessment of Broader Impacts

Very Good

#### Explanation to Applicant

The candidate provides a fairly good documentation of previous activities that meet the broader impacts criteria laid out by the National Science Foundation. A more detailed plan for her future activities in this realm would strengthen the proposal.

## Score for Botvinnik, Olga

### Intellectual Merit Criterion

#### Overall Assessment of Intellectual Merit

Very Good

#### Explanation to Applicant

The applicant has a fine scholastic record and extensive undergraduate research experience that was well-described. Although the proposed research plan is well-written, with clearly-articulated hypotheses and aims, it is not clear how much of it was independently-conceived. The research is on the cutting edge of the biological sciences.

### Broader Impacts Criterion

#### Overall Assessment of Broader Impacts

Excellent

#### Explanation to Applicant

The applicant has disseminated her results in presentations and seminal publications, and she is passionate about the importance of conducting research that is collaborative and international in scope. The applicant is an eloquent spokesperson on the role of women in science, and she discusses ways to enhance the participation of women in science. She has also been involved in outreach to K-12 students. The overall importance of his research for scientific understanding was well-described. The applicant could better articulate how the research will benefit society.

## Score for Botvinnik, Olga

### Intellectual Merit Criterion

#### Overall Assessment of Intellectual Merit

Excellent

#### Explanation to Applicant

The applicant has intellectual capabilities and demonstrated research experiences; she has designed and conducted experiments, generated and analyzed results, and published some of them. She has demonstrated that she can work as part of team or as an independent researcher.

### Broader Impacts Criterion

#### Overall Assessment of Broader Impacts

Very Good

#### Explanation to Applicant

The proposed research is an important one and once completed successfully, it is expected to generate new knowledge that will benefit society. The applicant has a history of successful mentoring and empowering others including women. The current research plan does not include plans for outreach/training/dissemination.