Approval Form (1B)
A completed form is required for each student, including all team members.

| 1.                 | То                  | Be Completed by Student and Parent  |
|--------------------|---------------------|---|
| F                  |                     | Student Acknowledgment:   |
|                    |                     | <ul> <li>I understand the risks and possible dangers to me of the proposed research plan.</li> </ul>  |
|                    |                     | <ul> <li>I have read the ISEF Rules and Guidelines and will adhere to all International Rules when conducting this research.</li> </ul>   |
|                    |                     | I have read and will abide by the following Ethics statement  |
| are<br>or p<br>com | not<br>rese<br>ipet | researchers are expected to maintain the highest standards of honesty and integrity. Scientific fraud and misconduct condoned at any level of research or competition. Such practices include but are not limited to plagiarism, forgery, use entation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for ition in affiliated fairs and ISEF. |

| Nina Su                           | - Mapa   | u 25 2019   |
|-----------------------------------|--|---|
| Student's Printed Name            | Signature //   | Date Acknowledged (mm/dd/yy)<br>(Must be prior to experimentation.) |
| b. Parent/Guardian Approval: I ha | ave read and understand the risks arry. I consent $t\phi$ my child participating | nd possible dangers involved in the g in this research.             |
| Tota Su                           |  | 6/25/2019   |
| Parent/Guardian's Printed Name    | Signature  | Date Acknowledged (mm/dd/yy)<br>(Must be prior to experimentation.) |

2. To be completed by the local or affiliated Fair SRC (Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate.)

| a. Required for projects that need prior SRC/IRB approval BEFORE experimentation (humans, vertebrates or potentially hazardous biological agents).   | b. Required for research conducted at all Regulated Research Institutions with no prior fair SRC/IRB approval.   |
|--|--|
| The SRC/IRB has carefully studied this project's Research Plan/ Project Summary and all the required forms are included. My signature indicates approval of the Research Plan/Project Summary before the student begins experimentation. | This project was conducted at a regulated research institution (not home or high school, etc.), was reviewed and approved by the proper institutional board before experimentation and complies with the ISEF Rules. Attach (1C) and any required institutional approvals (e.g. IACUC, IRB). |
| SRC/IRB Chair's Printed Name   | Munia V. Avchdeacon  SRC Chair's Printed Name  1/28/20   |
| Signature Date of Approval (mm/dd/yy)  (Must be prior to experimentation.)   | Signature  Date of Signature (mm/dd/yy) (May be after experimentation)   |

3. Final ISEF Affiliated Fair SRC Approval (Required for ALL Projects)

| SRC Approval After Experimentation and Before Competition at Regional/State/National Fair I certify that this project adheres to the approved Research Plan/Project Summary and complies with all ISEF Rules. |           |                             |  |  |  |  |
|---|-----------|-----------------------------|--|--|--|--|
| Regional SRC Chair's Printed Name   | Signature | Date of Approval (mm/dd/yy) |  |  |  |  |
| State/National SRC Chair's Printed Name<br>(where applicable)   | Signature | Date of Approval (mm/dd/yy) |  |  |  |  |