

The answers you gave to questions on the previous pages of the Rules Wizard indicate that you need to download the following forms in order to adhere to the International Rules:

These three forms are required for **all** participants:

Student Name: Kathleen Gray

Project Title: Using Image Segmentation to Computationally Interpret Loss of Arasa3 Function and its Impact on Erythropoiesis and Ephiseal Plate Development Through Dysregulation of Key Signalling Pathways

- [Checklist for Adult Sponsor \(1\)](#)
- [Student Checklist \(1A\) and Research Plan](#)
- [Approval Form \(1B\)](#)
- [Official Abstract Form \(87 kb\)](#) -- Some fairs may require the use of the ISEF Official Abstract Form; others may have their own required format. Please contact your regional fair for more information. **Note:** ISEF finalists do **not** fill out this abstract form - they have to fill out their abstract on-line. Please read the instructions for completion thoroughly.
- [Regulated Research Institutional/Industrial Setting Form \(1C\) \(28 kb\)](#) -- This form must be completed by the scientist supervising the student research conducted in a regulated research institution (e.g., university lab, medical center, NIH, SSTP, etc.) or industrial setting. A Research Institution Approval form may need to be supplied by the research site (i.e. IRB/IACUC/IBC).
- [Qualified Scientist Form \(2\) \(41 kb\)](#) -- May be required for research involving human subjects, vertebrate animals, potentially hazardous biological agents and DEA-controlled substances. Must be completed and signed before the start of student experimentation
- [Risk Assessment Form \(3\) \(16 kb\)](#) -- Required for projects using hazardous chemicals, activities, or devices or DEA-controlled substances.
- [Vertebrate Animal Form \(5B\) \(39 kb\)](#) -- Required for all research involving vertebrate animals that is conducted in a Regulated Research Institution. **(IACUC approval required before experimentation;** SRC should also approve prior to experimentation to ensure research appropriate for pre-college students).
- [Potentially Hazardous Biological Agents Form \(6A\) \(30 kb\)](#) Required for research involving microorganisms, rDNA, fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids.
- [Human and Vertebrate Animal Tissue Form \(6B\) \(19 kb\)](#) Required for research involving fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids.