



Rules and Participation Handbook

March 18th, 2023

www.WESEF.org

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Important Dates to Know

Opens Nov 21st Closes Dec 8th	Online student registration - must be completed with your Science Research teacher
Dec 15, 2022	Participant's research plan, paper, abstract on WESEF form, entry fees, and all forms must be uploaded by this date. Regular (\$60 per student) AND extended deadline fees (\$100 per project) must be postmarked by this date. (Any students/projects opting for extended deadline must submit Forms 1, 1A, 1B, Research Plan to zFairs and postmark payment)
Jan 15, 2023	Optional extended deadline for participant's research paper, abstract, and remaining forms must be postmarked by this date. (Late fee of \$100 per project, in addition to the \$60 registration fee, and initial forms must be submitted by Dec 15, 2022)
March 17, 2023	Mandatory Poster Set-Up at Somers HS, after school.
Mar 18, 2023	WESEF In-person full-day event at Somers High School. Judging during the day.
Mar 23rd, 2023	Regeneron WESEF Awards Ceremony held at Somers High School
May 13-19, 2023	Regeneron ISEF will be held in Dallas, Texas
June TBD, 2023	Genius Olympiad - Rochester Institute of Technology - Rochester, NY

NEW FOR WESEF 2023:

- WESEF 2023 will be held as an **in-person** event held at Somers High School!
- Registration Fee this year is **\$60** per student entrant; fees are likely to increase next year
- Regeneron ISEF 2023 will be held in Dallas, Texas
- Registration and Forms/ Paperwork submission will continue through our online **zFairs** platform

Introduction

The Westchester Science & Engineering Fair (WESEF) provides students from all area high schools in Westchester, Putnam and Sullivan counties the opportunity to showcase their multi-year, STEM research projects in a competitive venue. The students are judged by local experts in the fields of life science, physical science, environmental studies, psychology and engineering.

Last year, nearly 600 students participated and over 60 percent of the presenters won an award. The grand prizes are trips to either the International Science & Engineering Fair (ISEF) or the Genius Olympiad. Both of these international fairs bring together hundreds of science fair winners from all over the world to compete against each other.

The opportunities that WESEF and their corporate donors have provided have helped to shape the future of thousands of local area high school students in addition to helping to support and build STEM education programs throughout the Hudson Valley region.



Participating schools from previous years

Ardsley HS	Blind Brook HS	Briarcliff HS
Bronxville HS	Byram Hills HS	Carmel HS
Croton-Harmon HS	Dobbs Ferry HS	Eastchester HS
Edgemont HS	Fox Lane HS	Hackley HS
Harrison HS	Hastings HS	Hendrick Hudson HS
Horace Greeley HS	Irvington HS	John Jay HS
Lakeland HS	Lincoln HS	Mahopac HS
Mamaroneck HS	New Rochelle HS	North Salem HS
Ossining HS	Peekskill HS	Pelham HS
Pleasantville HS	Portchester HS	Putnam Valley HS
Rye High School	Rye Country Day School	Rye Neck HS
Scarsdale HS	Sleepy Hollow HS	Somers HS
Valhalla HS	Walter Panas HS	Westlake HS
White Plains HS	Yonkers Partners in Ed.	Yorktown HS

Any student from grades 9 - 12 in public, private, homeschool, or religious school in Westchester, Putnam, and Sullivan counties of New York State may enter WESEF.

Registration Checklist for WESEF

I. Online Student Registration - Nov 21, - Dec. 8, 2022 at 11:59pm

- Teachers must register themselves first using the **zFairs platform** prior to allowing students to register by **Dec 8th, 2022**. All teachers must make a new zfacts account, no information from last year's fair is carried over.
- Students may not register electronically without the supervision of the teacher. We realize it is time consuming but it helps to avoid several mistakes down the road including incorrect category placement and even possible disqualification.
Link for teacher registration: www.wesef.zfacts.org
- It is important that the teacher double checks that each question for each student has been answered. Failure to do so may make the student ineligible for certain awards. This will be very easy if the teacher works with each student while they register.
- Once the registration deadline has passed, NO ADDITIONAL students will be allowed to register. Therefore, teachers - please double check your WESEF registration list against your class roster.
- We recommend that you keep a digital or printed copy of your student lists for your own records.

II. Forms, Abstract & Research Paper Submission - December 15th 2022

Deadline for **online submission** of participants' research paper, abstract, all forms (see below for more info.) and entry fees (**\$60 per student** -not project). It is essential that you only register students that you are very confident will be ready for WESEF. **Fee is non-refundable.**

- Research plan must be in **Future Tense**
- Research plan should distinguish between role of mentor and role of student - this is very important
- Teacher is the "Adult Sponsor"; Mentor is the "Supervising Scientist"
- Dates on ALL forms must be BEFORE the "Actual Start Date" on form 1A (**except 1C & 5B**)
- ONLY use the Official WESEF Abstract Form found at www.wesef.org NOT the ISEF abstract
- Be SURE that the category chosen on the official WESEF abstract form **matches** the category that the student was registered for.

****Any student that has chosen the optional, extended deadline (Jan. 15th) MUST still submit forms 1, 1A, 1B and the research plan. In addition, the fee for the optional, extended deadline (combined \$60 normal fee + \$100 late fee per project) must also be postmarked at this time.**

III. Research Paper Deadline for Extended Deadline Only - January 15th 2022

- Optional Extended Deadline only for projects that registered and submitted the \$160 by December 15th, 2022 (combined \$60 normal fee + \$100 late fee per project)
- Participant's research paper, abstract, and remaining forms
- Any missing paperwork at this time will result in a disqualification

WESEF Payment:

- ❑ It is essential that you register only students that you are very confident will be ready for WESEF.
- ❑ **Fees are non-refundable regardless if a student/team drops or is disqualified (because of student or teacher error).**
- ❑ Cost will be **\$60 per student** for the **regular deadline** submission of all materials.
- ❑ Any project that opts for the **extended paperwork deadline** must submit a total **payment** of **\$160** (\$60 for regular deadline + \$100 extended deadline fee) along with forms 1, 1a, 1b and research plan by the regular deadline and then will submit their paper and abstract by the January 15th deadline.
Paperwork will be uploaded to zFairs, while payment will be mailed.
- ❑ The **extended deadline fee is a per-project fee**, meaning individuals and teams both would pay the \$100 if seeking the extended deadline. However, a team of two would only need to pay an additional \$100 (combined) if they opted for the extended deadline.
- ❑ Checks/POs/invoice and extended deadline checks MUST BE postmarked by **Dec 15, 2022**
 - ❑ **Make all checks/purchase orders payable to “WESEF”**
- ❑ Teachers/schools who have students who pay individually, should collect all the checks and mail them together in one envelope. No checks mailed independently by individual families, students, mentors will be accepted.
- ❑ Please PRINT the school name and student name on personal checks (however, **ONE LUMP SUM IS PREFERRED**). **DO NOT SEND CASH!**
- ❑ Please plan ahead if your school/district will pay with a purchase order. There is usually a major delay between a request for payment (PO) and when the check is written.
- ❑ **Final payment for purchase orders in the form of a school-issued check must be postmarked NO LATER than January 15, 2023.**
- ❑ **Bounced checks will incur an additional fee (according to bank prices TBD).**
- ❑ Include a completed copy of the invoice with payment.
A copy of the WESEF W-9 form with our Tax ID and an invoice can be found on the website (www.wesef.org) under the “For Teachers” tab
- ❑ **Checks are to be made out to “WESEF” and mailed to:**
Stephanie Peborde Burke
WESEF Treasurer
PO Box 1373
Yorktown Heights, NY 10598

Check made out to: WESEF

Mail to:

Stephanie Peborde Burke
WESEF Treasurer
PO BOX 1373
Yorktown Heights, NY 10598

PLEASE NOTE: In the past, we have asked schools to send money with papers and forms to Angelo Piccirillo, and schools have entered his school address as the place where the checks are mailed. **You MUST inform your district of the change of address** for the payment so that they update it in their system.

Project Categories

Many projects could easily fit into more than one WESEF category. We highly recommend that you review the entire listing of the categories on the [ISEF site](#) before carefully choosing the category that most accurately describes your project.

WESEF Categories	
Animal Science (AS): Includes all aspects of animals and animal life, animal life cycles, and animal interactions with one another or with their environment.	Behavioral Science (BE): The science or study of the thought processes and behavior of humans and other animals in their interactions with the environment studied through observational and experimental methods.
Biochemistry (BI): The study of the chemical basis of processes occurring in living organisms, including the processes by which these substances enter into, or are formed in, the organisms and react with each other and the environment.	Cellular & Molecular Biology (CB): This is an interdisciplinary field that studies the structure, function, intracellular pathways, and formation of cells. Studies involve understanding life and cellular processes specifically at the molecular level.
Chemistry (CH): Studies exploring the science of the composition, structure, properties, and reactions of matter not involving biochemical systems.	Computational Biology & Bioinformatics (CBIF): Studies that primarily focus on the discipline and techniques of computer science and mathematics as they relate to biological systems.
Computer Science (CO): The study or development of software, information processes, or methodologies to demonstrate, analyze, or control a process/solution.	Earth & Planetary Science (ES): Studies of Earth and other planetary systems and their evolution.
Engineering (ENG): Studies that focus on the science and engineering that involve movement or structure. The movement can be by the apparatus or the movement can affect the apparatus. Additionally, projects that involve the application of engineering principles and design concepts.	Environmental Science (ENV): Studies of the environment and its effect on organisms/systems, including investigations of biological processes such as growth and lifespan.
Mathematics (MA): The study of the measurement, properties, and relationships of quantities and sets, using numbers and symbols. The deductive study of numbers, geometry, and various abstract constructs, or structures.	Medicine & Health (ME): This category focuses on studies specifically designed to address issues of human health and disease.
Microbiology (MI): The study of microorganisms, including bacteria, viruses, fungi, prokaryotes, and simple eukaryotes as well as antimicrobial and antibiotic substances.	Neuroscience (NS): Projects related to neurology and cognitive neuroscience.
Physics & Astronomy (PHAST): Physics is the science of matter and energy and of interactions between the two. Astronomy is the study of anything in the universe beyond the Earth.	Plant Science (PS): Studies of plants and how they live, including structure, physiology, development, and classification. Includes plant cultivation, development, ecology, genetics and plant breeding, pathology, physiology, systematics and evolution.

Rules for Participating in WESEF

Ethics Statement

Scientific fraud and misconduct are not condoned at any level of research or competition. This includes plagiarism, forgery, use or presentation of other researcher's work as one's own and fabrication of data. Fraudulent projects will fail to qualify for competition in affiliated fairs and the ISEF. WESEF reserves the right to revoke recognition of a project subsequently found to have been fraudulent.

Eligibility

1. Any student in grades 9-12 or equivalent, enrolled in a public, private, parochial, or home school in the region covered by WESEF (Westchester, Putnam & Sullivan Counties) is eligible to participate in WESEF.
2. If there is a Science Research program in a school, then only students in that program may participate in WESEF.
3. Students may not have reached 21 years of age, on or before May 1st of the event year.
4. Students are not permitted to simultaneously enter another regional ISEF-affiliated science fair (including the NYS Science Fair) without prior written consent of the WESEF board.
5. Team projects may have a maximum of three team members. A mixed team with members from different geographic regions may compete at WESEF (one team member must be from Westchester- Putnam region), but not at multiple fairs. Out of region students must pay an additional \$100 registration fee. Each team is encouraged to appoint a team leader to coordinate the work and act as spokesperson. However, each member of the team should be able to serve as spokesperson, be fully involved with the project, and must be familiar with all aspects of the project. The final work should reflect the coordinated efforts of all team members and will be evaluated using similar rules and judging criteria as individual projects.
6. Projects that are demonstrations, 'library' research or informational projects, 'explanation' models or kit building are not appropriate for the ISEF.
7. A research project may be a part of a larger study performed by professional scientists, but the project presented by the student must be only their own portion of the complete study.

General Requirements

1. All students competing in WESEF must adhere to all of the rules as set forth in this document.
2. All projects must adhere to the **Ethics Statement** above.
3. It is the responsibility of the student researcher(s) and the Adult Sponsor to evaluate the study to determine if the research will require forms and/or review and approval prior to experimentation, especially projects that include human participants, vertebrate animals, or potentially hazardous biological agents.
4. Projects must adhere to local, state and U.S. Federal laws, regulations and permitting conditions. In addition, projects conducted outside the U.S. must also adhere to the laws of the country and jurisdiction in which the project was performed.
5. The use of non-animal research methods and the use of alternatives to animal research are strongly encouraged and must be explored before conducting a vertebrate animal project.
6. Introduction or disposal of non-native and/or invasive species (e.g. insects, plants, invertebrates, vertebrates), pathogens, toxic chemicals or foreign substances into the environment is prohibited. It is recommended that students reference their local, state or national regulations and quarantine lists.
7. WESEF projects must adhere to ISEF display and safety requirements

Project Display

Maximum Size of Project

Depth (front to back):
30 inches or 76 cm

Width (side to side):
48 inches or 122 cm

Height (floor to top):
108 inches or 274 cm

**PLEASE DO NOT INCLUDE THE FOLLOWING
AS PART OF YOUR WESEF DISPLAY:**

- Mentor Names or Photographs
- Institution Names, Logos, or Photographs
- School Names, Logos, or Photographs
- Images showing graphic content

Please be aware when ordering posters that the mechanism that supports the poster should conform to the maximum size limitations stated above.

- All project materials and support mechanisms must fit within the project dimensions.
- At WESEF, fair-provided tables will not exceed a height of 36 inches (91 centimeters).
- If a table is used it becomes part of the project and must not exceed the allowed dimensions.

Display Content for Projects Conducted at a Research Institution

The display must reflect only the work conducted by the finalist. Minimal reference to mentor's or other researcher's work must only reflect background information or be used to clarify differences between finalist's and others' work.

Photograph/Image Display Requirements

Display of photographs of people other than that of the student researcher must have a photo release signed by the subject, and if under 18 years of age, also by the guardian of the subject.

Sample consent text: "I consent to the use of visual images (photos, videos, etc.) involving my participation/my child's participation in this research." (These forms must be available upon request, but shall not be displayed.)



Roles & Responsibilities of Students & Adults

The Student Researcher(s)

The student researcher is responsible for all aspects of the research project including enlisting the aid of any required supervisory adults (Adult Sponsor, Qualified Scientist, etc.), obtaining necessary approvals (SRC, IRB, etc.), following the Rules & Guidelines of the ISEF, and performing the experimentation, engineering, data analysis, etc.

Scientific fraud and misconduct are not condoned at any level of research or competition. This includes plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for competition. WESEF reserves the right to revoke recognition of a project subsequently found to have been fraudulent.

The Adult Sponsor

An Adult Sponsor may be a teacher (preferred), parent, professor, and/or other professional scientist in whose lab the student is working. This individual must have a solid background in science and should have close contact with the student during the course of the project. The Adult Sponsor is responsible for ensuring the student's research is eligible for entry in the ISEF.

Qualified Scientist

A Qualified Scientist should have earned a doctoral/professional degree in a scientific discipline that relates to the student's area of research. Alternatively, the SRC may consider an individual with extensive experience and expertise in the student's area of research as a Qualified Scientist. The Qualified Scientist must be thoroughly familiar with local, state, and federal regulations that govern the student's area of research.

Designated Supervisor

The Designated Supervisor is an adult who is directly responsible for overseeing student experimentation. The Designated Supervisor need not have an advanced degree, but must be thoroughly familiar with the student's project, and must be trained in the student's area of research.

The Adult Sponsor may act as the Designated Supervisor.

Scientific Review Committee (SRC)

The WESEF Scientific Review Committee (SRC) is a group of qualified individuals that is responsible for evaluation of student research, certifications, research plans and exhibits for compliance with the rules, applicable laws and regulations at each level of science fair competition. Most proposed research projects involving vertebrate animals and/or potentially hazardous biological agents must be reviewed and approved BEFORE experimentation. Local or regional SRC prior review is not required for human studies previously reviewed and approved by a properly constituted IRB.

ALL projects, including those previously reviewed and approved by an IRB must be reviewed and approved by the SRC after experimentation and before competition in an Affiliated Fair. Projects which were conducted at a Regulated Research Institution (not home, high school or field) and which were reviewed and approved by the proper institutional board before experimentation, must also be approved by the Affiliated Fair SRC.

Institutional Review Board (IRB)

An Institutional Review Board (IRB), is a committee that must evaluate the potential physical and/or psychological risk of research involving humans. All proposed human research must be reviewed and approved by an IRB before experimentation begins. This includes review of any surveys or questionnaires to be used in a project.

Federal regulations require local community involvement. Therefore, it is advisable that an IRB be established at the school level to evaluate human research projects. An IRB must consist of a minimum of three members including the following: an educator, a school administrator (preferably principal or vice principal), and a medical or mental health professional.

To avoid conflict of interest, no Adult Sponsor, parent or other relative of the student, the Qualified Scientist, or Designated Supervisor who oversees the project may serve on the IRB reviewing that project

Message from the WESEF Scientific Review Committee

Prior to attempting to complete any documentation for entry to WESEF, we strongly recommend that students communicate with mentors and/or adult sponsors to firmly grasp the extent of the research and the necessary documentation that WESEF requires for the student's project.

To help guide you with the appropriate forms, before you start your research, we strongly suggest you use the the Rules Wizard available at: <https://ruleswizard.societyforscience.org/>



Top Six WESEF Paperwork Problems to Avoid:

1. Research plan lacks sufficient details and fails to provide thorough information to support the documentation provided. A properly written research plan must include:
 - the proposed and actual start & end dates on Form 1A
 - a detailed research plan - projects which cannot be assessed because the research plan is not sufficient will fail to qualify.
 - all work site information completed
 - must identify **student and mentor role**
2. Missing Designated Supervisor Form 3 (Risk Assessment Form)
 - Must be completed for projects that involve chemicals, equipment, or other potential hazards
 - Often missing, and often incomplete without description of safety precautions taken
3. Project duration not within a single calendar year
4. Missing IRB signatures on Human Subjects Form 4
5. Tissue analysis projects are identified as vertebrate animal projects.
6. Failure to include a **HIPAA letter** from a mentor for all studies involving de-identified human data. This letter should be on the institution letterhead from the mentor. It should describe the data set and indicate that the data set was de-identified, prior to student use.

Common Reasons a Project Would “Fail to Qualify” at WESEF/ ISEF:

1. **Human, vertebrate animal, or PHBA studies that did not have pre-approval**
 - Need IRB pre-approval for human participant studies
 - Need SRC or IACUC pre-approval for vertebrate animal studies
 - Need SRC or IBC pre-approval for PHBA studies
2. **Prohibited Vertebrate Animal Studies**
 - Studies done at home/school/field that should have been done at a regulated research institution
 - Studies that caused more than momentary pain, suffering, or stress -- or designed to kill
 - Induced toxicity studies
 - Predator/vertebrate prey experiments
 - Studies where student performed euthanasia on a vertebrate animal
 - Studies with an animal death in any group or subgroup due to the experimental procedures
 - Studies where animals have a weight loss greater than or equal to 15%
 - Studies where there was an inappropriate restriction of water or food
 - Studies treated as embryonic studies that were actually vertebrate studies
3. **Prohibited Studies using Potentially Hazardous Biological Agents (PHBA's)**
 - Microorganisms were cultured at home
 - BSL-2 studies (including opening plates or containers of unknown microorganisms) done in a BSL-1 lab
 - Studies using human and other primate established cell lines without SRC pre-review and approval
4. **Prohibited Human Participant Studies**
 - Studies where the IRB required written documentation of consents which were not obtained
 - Studies where the student used surveys/questionnaires without IRB pre-review and approval
5. **Eligibility Problems**
 - Project does not show independent data collection
 - Student worked with a partner or team but competed as an individual, or vice versa
 - Project was more than 1 year in length or was too old
 - More than three students on a team
 - Student was from outside of our affiliate region, must attend a different ISEF affiliated fair
 - Student missed deadlines for registration, paperwork, or entry fee
 - Failed to set-up poster display on Friday before WESEF
6. **Scientific Misconduct**
 - Plagiarism
 - Student presented mentor's research as his/her own
 - Falsification of data
 - Student did not generate original data beyond library research/ literature review
7. **Research Plan**
 - Lacks details of research
 - Rationale section is missing
 - Forms submitted do not reflect research plan submitted

Judging at WESEF

The Judging Process

- WESEF 2023 will be held in-person at Somers High School
- Projects will likely have five official judge interviews. The students should be prepared to give a **seven minute summary** of their research. Judges are then permitted 5 minutes for Q&A.
- There will be official judging periods, indicated by a tone which will signal the start and finish of each judging session. Judges will then have a 5 minute window to score rubrics and move to the next poster.
- In some cases, Special Awards Judges will also meet with and interview students
- Under no circumstances should a Judge review a student project for which there may be a conflict of interest. Judges are asked to recuse themselves from any projects where they do not feel they can fairly assess a student project.



Advice for Judges

- Examine the quality of the student's work, and how well the student understands his or her project and area of study. The physical display is secondary to the student's knowledge of the subject. Look for evidence of laboratory, field or theoretical work, not just library research or gadgeteering.
- Judges should keep in mind that competing in a science fair is not only a competition, but an educational and motivating experience for the students. The high point of the fair experience for most of the students is their judging interviews.
- As a general rule, judges represent professional authority to Finalists. For this reason, judges should use an encouraging tone when asking questions, offering suggestions or giving constructive criticism. Judges should not criticize, treat lightly, or display boredom toward projects they personally consider unimportant. Always give credit to the Finalist for completing a challenging task and/or for their success in previous competitions.
- Compare projects only with those competing at this Fair and not with projects seen in other competitions or scholastic events.
- Please be discreet when discussing scores or making critical comments, as students, mentors, or teachers might overhear. Results are confidential until announced at the awards ceremony.

Awards & Honors

At the 2022 Regeneron- Westchester Science & Engineering Awards Ceremony, over \$100,000 in awards and prizes were given out to students for their scientific accomplishments. Approximately 60% of all participants received an award at the WESEF Awards Ceremony, thanks to the generous support from our local and ISEF affiliated donors.

Grand Awards:

Determined by Score: Each student will present their project to 5 judges that will score the project independently. Scores are added to produce a final score which allows us to distribute awards and select Finalists.



ISEF: The top 15-20 scoring projects are selected to represent our region at the Regeneron International Science & Engineering Fair. This honor includes participation in the 2023 Regeneron International Science and Engineering Fair where the student will compete against the best research students from all over the world.

Special thanks to the continuous support of our donors including Regeneron, Con Edison, the Boehringer-Ingelheim Cares Foundation, the Westchester Academy of Medicine and Carl Zeiss Microscopy.

Genius Olympiad: Up to 15 student projects (excluding senior projects) will qualify through Regeneron WESEF to attend the Genius Olympiad (all expenses paid) held annually in June at Rochester Institute of Technology. This international fair draws students from over 70 countries. More info about this event can be found at <https://www.geniusolympiad.org>.

More information will be forthcoming however it is very likely that due to the COVID-19 restrictions, anyone that wins a spot to the Genius Olympiad, through Regeneron WESEF, will have to provide their own transportation and chaperone (parent/guardian) for the full duration of the trip in June 2023.

Students that qualify independently for Genius Olympiad, by direct paper submission will also have to organize their own transportation and chaperone (parent/guardian) for the duration of the trip.



Category Awards:

Category awards are given to students in each of the categories represented at WESEF. Approximately 35% of students receive a category award with multiple winners at 1st, 2nd, 3rd and 4th place. Category winners receive a monetary award and a medal. Monetary awards will be mailed to teachers by early May.

Special Awards:

Special awards are sponsored by local organizations as well as by national organizations through our affiliation with ISEF. Special awards are chosen based on a combination of both established criteria for each award and student score. Answering the questions presented to each student during online registration for WESEF helps us to narrow down the potential winners for each of these awards. In 2022, approximately 140 special awards were given at WESEF from local organizations such as Teatown, Westchester Academy of Medicine, Regeneron and many more!



Awards Ceremony:

The awards ceremony will be held on March 23, 2023 in the Somers High School Gymnasium. Students who are unable to attend the awards ceremony should have a fellow student or teacher pick up their award for them. **** WESEF will follow the COVID health and safety protocol guidelines in effect at that time.**

Award winners will be given specific instructions on how to claim their award. Please carefully read the instructions provided at the awards ceremony as each award has different requirements. While some awards require no additional action, it is up to the student to follow through on the directions to receive their awards. Certificates and monetary awards will be mailed to teachers by early May. Any questions regarding awards can be directed to Melissa Shandroff at shandroffm@hohschools.org.

Local awards will **require a thank you note** from the student to our sponsors. We are grateful to be able to provide numerous monetary awards, which would not be possible without the generous donations of our sponsors.

Students will be asked to fill out a Google Form by the end of March or early April with their thank you note and abstract. Teachers will be sent an email the week after WESEF with a link to the Google Form. Each individual winner and each team should submit one thank you note via the Google Form.

Students who do not send a thank you note will **not** receive their monetary awards. Teachers will be notified a week prior to the due date with names of students who have not sent in their thank you notes. **Award money checks must be deposited by June 30th or will be considered null and void.**



WESEF Executive Board

Many special thanks are due to the members of the WESEF Executive Board, a panel of nine teacher volunteers who work tirelessly throughout the school year to pull this epic event together to support student interest and involvement in the sciences in our region.

President:
Michael Blueglass
wesefpresident@gmail.com

Vice President & SRC Co-Chair:
Angelo Piccirillo
apiccirillo@ossiningufsd.org

Vice President:
Janet Longo Abinanti
jrlongo@aol.com

Judge Coordinator:
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Treasurer:
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SRC Co-Chair:
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Webmaster:
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Awards Coordinator:
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Assistant to Judge Coordinator:
Michele Zielinski
mzielinski@tufsd.org

Host Committee Chair:
William Maelia
wmaelia@somersschools.org

*Thank You
WESEF BOARD!*

Finally, we wish to express our appreciation to the many student and teacher volunteers without whom our science fair would not be possible!



Frequently Asked Questions

Why does the research plan have to be in the future tense?

The research plan indicates all the aspects of the research to be conducted and determines the necessary documentation that the student will need to conduct the research. It is critical that it establishes what the student's actual role in the research and other individuals that will contribute to the research.

What is the difference between the fair (WESEF) SRC and an institution's SRC?

The WESEF SRC uses the guidelines established by the ISEF SRC to determine if the project qualifies for WESEF. Meanwhile, an institution's SRC typically refers to the "body" that oversees projects conducted at that particular research institution. Procedures approved by institution SRC can still conflict with ISEF SRC rules—for example those involving pain tolerance or the death of animals. Thus, it is very important to make mentors aware of ISEF/WESEF rules and regulations when planning research.

Can WESEF SRC approve a project before it starts? After it ends?

The WESEF SRC can approve a project with proper documentation in place before the project begins as long as procedures are not modified during the time research is carried out. All projects must be approved by WESEF SRC after it is conducted and this must occur prior to WESEF presentation.

Can WESEF SRC disqualify a project that has been approved by an institution's SRC?

Yes, since it is possible that a project that can be approved by an institution with rules differing from those made by ISEF which is focused on high school researchers and thus has stricter rules.

Can any school form their own IRB committee?

Yes, as long as they follow the rules and regulations provided by ISEF.

Can a student who submitted to STS fail to qualify for WESEF?

Yes, STS does not have a scientific review committee (SRC) that reviews each project. Furthermore, there are notable differences in the qualifications of each competition.

When should a project be classified as a continuation project?

A continuation project is one in which the project goes beyond one calendar year.

Does ISEF limit the time or length of a project?

Yes, all projects must be within a calendar year which runs from January 2021 to May 2022.

If I finish 1st in my category, does that mean that I won a trip to ISEF?

No, only the top 15-20 highest scoring projects overall qualify for ISEF.

Once I have registered, can I change categories?

Yes, you will have one more chance to change your category prior to the fair.








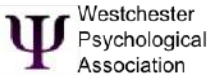





If I decide to drop-out of WESEF, can my fee be refunded?

Unfortunately entry fees are not refundable under any circumstances.

Are WESEF Rules the same as ISEF Rules?

WESEF rules are guided by ISEF rules, however they can differ based on our local needs. For instance, abstracts at WESEF cannot be displayed to avoid potential judge bias, which is not a concern at the international level.

Donors

<p>Title Sponsor (Contribution of \$50,000 or more)</p>			
<p>Diamond Level (Contributions of \$10,000 to \$49,999)</p>		<p>Boehringer Ingelheim Cares Foundation</p>	
<p>Platinum Level (Contributions of \$5,000 to \$9,999)</p>			
<p>Gold Level (Contributions of \$2,000 to \$4,999)</p>			
<p>Silver Level (Contributions of \$500 to \$1,999)</p>		 <p><i>Robert Weineter</i></p>	 
<p>Patron Level (Contributions of \$200 to \$499)</p>			
<p>Friends Level (Contributions up to \$199)</p>	 		

How YOU can help support WESEF

Recruiting Judges

Each year, the success of our fair depends on the participation of our generous judge volunteers; we typically require approximately 400 judges to view the exciting and cutting edge student projects - your help as a judge would be greatly appreciated!

Judging criteria include one of the following:

- Currently enrolled in a graduate program (M.S., M.A., M.Ed, D.O., Ed.D., D.D.S., D.V.M., Ph.D, M.D, etc.) **OR**
- Bachelor's degree + 2 years of job-related experience **OR**
- Current professional holding an advanced degree and working in any of the scientific fields represented at WESEF. This includes school psychologists, social workers, registered nurses, EPA, DEA professionals, etc. NOT eligible to judge: Current K-12 teachers

Our pool of judges typically includes: research scientists working in education and industry, current graduate students, retirees, psychologists and social workers, engineers, nurses, EPA and DEA professionals.

If you would like to volunteer as a judge, please contact **Dr. Michele Sugantino**, our Judge Coordinator at wesefjudges1@gmail.com.

Teacher Volunteers

Teachers from each participating school are required to attend WESEF and we ask for your assistance with various tasks on set-up day or the day of the fair.

Additional opportunities exist to support WESEF during the school year including sub-committees and other tasks. Please contact any of our WESEF Board Members for more information.

Make a Tax Deductible Donation

WESEF is a 503c, non-profit organization - the opportunities we make available to our region's bright young scientists are only possible through the support of generous donors which include local industries, businesses, and individuals. Please contact our Fair Director, [Mr. Michael Blueglass](#), about ways you can make a tax-deductible donation to support WESEF.

Checklist for Adult Sponsor (1)

This completed form is required for ALL projects.

To be completed by the Adult Sponsor in collaboration with the student researcher(s):

Student's Name(s): _____

Project Title: _____

1. I have reviewed the ISEF International Rules: Guidelines for Science and Engineering Fairs 2022-2023, including the science fair ethics statement.
2. I have reviewed the student's completed Student Checklist (1A) and Research Plan/Project Summary.
3. I have worked with the student and we have discussed all possible risks involved in the project.
4. The project involves one or more of the following and requires prior approval by an SRC, IRB, IACUC or IBC:
 - Humans Potentially Hazardous Biological Agents
 - Vertebrate Animals Microorganisms rDNA Tissues
5. Items to be completed for **ALL PROJECTS**
 - Adult Sponsor Checklist (1) Research Plan/Project Summary
 - Student Checklist (1A) Approval Form (1B)
 - Regulated Research Institutional/Industrial Setting Form (1C) (when applicable; after completed experiment)
 - Continuation/Research Progression Form (7) (when applicable)

Fit as much of the title as possible

Additional forms required if the project includes the use of one or more of the following (check all that apply):

- Humans**, including student designed inventions/prototypes. (Requires prior approval by an Institutional Review Board (IRB); see full text of the rules.)
 - Human Participants Form (4) or appropriate Institutional IRB documentation
 - Sample of Informed Consent Form (when applicable and/or required by the IRB)
 - Qualified Scientist Form (2) (when applicable and/or required by the IRB)
- Vertebrate Animals** (Requires prior approval, see full text of the rules.)
 - Vertebrate Animal Form (5A) -for projects conducted in a school/home/field research site (SRC prior approval required)
 - Vertebrate Animal Form (5B) -for projects conducted at a Regulated Research Institution. (Institutional Animal Care and Use Committee (IACUC) approval required prior experimentation.)
 - Qualified Scientist Form (2) (Required for all vertebrate animal projects at a regulated research site or when applicable)
- Potentially Hazardous Biological Agents** (Requires prior approval by SRC, IACUC or IBC, see full text of the rules.)
 - Potentially Hazardous Biological Agents Risk Assessment Form (6A)
 - Human and Vertebrate Animal Tissue Form (6B) -to be completed in addition to Form 6A when project involves the use of fresh or frozen tissue, primary cell cultures, blood, blood products and body fluids.
 - Qualified Scientist Form (2) (when applicable)
 - The following are exempt from prior review but require a Risk Assessment Form 3: projects involving protists, archae and similar microorganisms; projects using manure for composting, fuel production or other non-culturing experiments; projects using color change coliform water test kits, microbial fuel cells; and projects involving decomposing vertebrate organisms.
- Hazardous Chemicals, Activities and Devices** (No SRC prior approval required, see full text of the rules.)
 - Risk Assessment Form (3)
 - Qualified Scientist Form (2) (required for projects involving DEA-controlled substances or when applicable)
- Other**
 - Risk Assessment Form (3)
- I attest to the information provided by the student researcher(s) and that I have read and agree to abide by the science fair rules and regulations.**

Only check boxes that are appropriate to your research

This is usually the Sci. Res. teacher NOT the mentor

This must be dated BEFORE the "Actual Start Date" on form 1A

Adult Sponsor's Printed Name _____ Signature _____ Date of Review (mm/dd/yy) _____

Phone _____ Email _____

Student Checklist (1A)
This form is required for ALL projects.

1. a. Student/Team Leader: _____ Grade: _____
Email: _____ Phone: _____

b. Team Member: _____ c. Team Member: _____

2. Title of Project: _____

Fit as much of the title as possible

3. School: _____ School Phone: _____
School Address: _____

This should be the teacher not the mentor

4. Adult Sponsor: _____ Phone/Email: _____

IF the student has continued his/her project, their poster should focus on the work from the current calendar year

5. Does this project need SRE, IRB/IACUC or other pre-approval? Yes (Tentative) No

6. Is this a continuation/progression from a previous year? Yes No
If Yes:

a. Attach the previous year's Abstract and Research Plan/Project Summary

b. Explain how this project is new and different from previous year's

Continuation/Research Progression Form (7)

This should be the date that the student started collecting data

7. This year's experimentation/data collection: _____

Actual Start Date: (mm/dd/yy) _____ End Date: (mm/dd/yy) _____

8. Where will you conduct your experimentation? (check all that apply)
 Research Institution School Field Home Other: _____

9. Source of Data:
 Collected self/mentor Other Describe/url: _____

NOTE this NEW field that should be filled out if appropriate

10. List the name and address of all non-home and non-school work locations, whether you worked there virtually or on-site:

Name _____

Address: _____

Phone/ email _____

11. Complete a Research Plan/Project Summary following the Research Plan/Project Summary instructions must accompany this form.

12. An abstract is required for all projects after experimentation.

Research Plan/Project Summary Instructions

A complete Research Plan/Project Summary is required for ALL projects and must accompany Student Checklist (1A).

- All projects must have a Research Plan/Project Summary
 - a. The Research Plan is to be written prior to experimentation following the instructions below to detail the rationale, research question(s), methodology, and risk assessment of the proposed research.
 - b. If changes are made during the research, such changes can be added to the original research plan as an addendum, recognizing that some changes may require returning to the IRB or SRC for appropriate review and approvals. If no additional approvals are required, this addendum serves as a project summary to explain research that was conducted.
 - c. If no changes are made from the original research plan, no project summary is required.
 - d. Some studies, such as an engineering design or mathematics projects, will be less detailed in the initial project plan and will change through the course of research. If such changes occur, a project summary that explains what was done is required and can be appended to the original research plan.
- The Research Plan/Project Summary should include the following:
 - a. **RATIONALE:** Include a brief synopsis of the background that supports your research problem and explain why this research is important and if applicable, explain any societal impact of your research.
 - b. **RESEARCH QUESTION(S), HYPOTHESIS(ES), ENGINEERING GOAL(S), EXPECTED OUTCOMES:** How is this based on the rationale described above?
 - c. Describe the following in detail:
 - **Procedures:** Detail all procedures and experimental design including methods for data collection, and when applicable, the source of data used. Describe only your project. Do not include work done by mentor or others. If you will use published surveys, questionnaires or tests, describe how you obtained these, including required permission if applicable.
 - **Risk and Safety:** Identify any potential risks and safety precautions.
 - **Data Analysis:** Describe the procedures you will use to analyze the data.
 - d. **BIBLIOGRAPHY:** List major references (e.g. science journal articles, etc.). If you plan to use vertebrate animals, one of these references must be a peer-reviewed journal article.

Items 1–4 below are subject-specific guidelines for additional items to be included in the Research Plan/Project Summary, where applicable.

1. Human participants research:

- a. **Participants:** Describe age range, gender, racial/ethnic composition, and any other characteristics of participants. Do not include pregnant women, prisoners, mentally disabled or economically disadvantaged individuals.
- b. **Recruitment:** Where will you find your participants? How will they be recruited? Do you have any incentives? If so, explain.
- c. **Methods:** What will participants be asked to do? Will you use any surveys or questionnaires? If so, explain. What is the source of the data? Did it require permissions? If so, explain. What is the timeline for data collection?
- d. **Risk Assessment:** What are the risks or potential discomforts (physical or psychological) to participants? How will you minimize risks? List any benefits to society.
- e. **Protection of Privacy:** Will identifiable information (e.g., names, telephone numbers, addresses, etc.) be collected? Will data be confidential/anonymous? If anonymous, describe how the data will be protected. Where will data be stored? How will the data be disposed of after the study?
- f. **Informed Consent Process:** Describe how you will inform participants of the risks and benefits of the research, that their participation is voluntary and they have the right to stop participating at any time.

2. Vertebrate animal research:

- a. Discuss potential ALTERNATIVES to vertebrate animal use and present them to the SRC.
- b. Explain potential impact or contribution of this research.
- c. Detail all procedures to be used, including methods used to minimize pain to animals and detailed chemical concentrations and drug dosages.
- d. Detail animal numbers, species, strain, sex, age, source, etc., include a justification for the number of animals.
- e. Describe housing and oversight of daily care.
- f. Discuss disposition of the animals at the end of the study.

• Potentially hazardous biological agents research:

- a. Give source of the organism and describe BSL assessment process and results.
- b. Detail safety precautions and discuss methods of disposal.

4. Hazardous chemicals, activities & devices:

- a. Describe Risk Assessment process, supervision, safety precautions and disposal methods.
- b. Material Safety Data Sheets are not necessary to submit with paperwork.

The research plan is the most important document because it provides the regional SRC board the necessary details of the planned research.

This detailed description of the research guides the SRC to be able to determine if the proper forms were completed and if they contain the correct information.

Must be VERY detailed and clearly delineate the role of the student vs. the role of the mentor

Entire Research Plan must be in FUTURE tense!!

Must include proposed and actual start and end dates

Must include detailed research plan
Must have all work site information completed

Must identify student and mentor role

Approval Form (1B)

A completed form is required for each student, including all team members.

1. To Be Completed by Student and Parent

a. Student Acknowledgment:

- I understand the risks and possible dangers to me of the proposed research plan.
- I have read the ISEF Rules and Guidelines and will adhere to all International Rules when conducting this research.
- I have read and will abide by the science fair ethics statement.

Student researchers are expected to maintain the highest standards of honesty and integrity. Fraud and misconduct are not condoned at any level of research or competition. Such practices include plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for competition in affiliated fairs and ISEF.

Student's Printed Name _____ Signature _____ Date Acknowledged (mm/dd/yy) _____
(Must be prior to experimentation.)

b. Parent/Guardian Approval: I have read and understand the risks and possible dangers of the proposed **Research Plan/Project Summary**. I consent to my child participating in this research.

Parent/Guardian's Printed Name _____ Signature _____ Date Acknowledged (mm/dd/yy) _____
(Must be prior to experimentation.)

This must be dated BEFORE the "Actual Start Date" on form 1A

This must be dated BEFORE the "Actual Start Date" on form 1A

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, animals, or potentially hazardous biological agents)

The SRC/IRB must approve the **Research Plan/Project Summary** before experimentation. My signature indicates approval of the **Research Plan/Project Summary** before experimentation.

 SRC/IRB Chair or Designee

Signature _____ Date of Approval (mm/dd/yy) _____
(Must be prior to experimentation.)

b. Required for research conducted at an affiliated Research Institution with no prior SRC/IRB approval

This project was approved by the proper institutional authority and complies with the institutional approval requirements.

 SRC Chair's Signature

Signature _____ Date of Signature (mm/dd/yy) _____
(May be after experimentation)

Do NOT write anything in this space unless you are the SRC/IRB Chair or Designee

Do NOT write anything in this space

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

SRC Approval After Experimentation

I certify that this project adheres to the applicable SRC/IRB approval requirements and complies with all ISEF Rules.

 Regional SRC Chair's Printed Name

 State/National SRC Chair's Printed Name (where applicable)

 Date of Approval (mm/dd/yy)

 Date of Approval (mm/dd/yy)

Do NOT write anything in this space

Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research either virtually or on site, conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s) _____

Title of Project _____

To be completed by the Supervising Adult in the Setting (NOT the Student(s)) after experimentation:

(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

Research was supported at my work site:

1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher? Yes No

a. If yes, complete questions 2–5

b. If no, describe your and/or your institution's role with this student's research project and his/her project (e.g. supervised use of equipment on site, etc.) and sign below.

If any of the research was done at a standard research facility (college, pharmaceutical company, environmental testing facility, etc..) or a facility where advanced research is allowed (certain high schools or local labs) the 1C form IS required.

2. Is the student's research project a subset of your ongoing research? Use questions 3, 4 and 5 to detail how the student's project is different from ongoing research or work at your site. If this project is a subset of ongoing research, please list the grant statement here.

If the project is to be a data analysis only and the data is publicly available, then nothing else is needed

3. Describe the independence and creativity with which the student conducted the research project.
- a. developed the hypotheses or engineering goals for the project

If data is covered by privacy rules/laws (ex. Patient data) or from a private source (ex. Proprietary data), then the student must show documentation of how the data became available and how/why they were allowed to view it and study it.

b. designed the methodology for his/her research project

The best thing to do is have the mentor send a short letter on their letterhead explaining that there were no HIPAA violations. This is even if the data was de-identified.

c. analyzed and interpreted data

See next page for more questions

(Continued on next page)

Regulated Research Institutional/Industrial Setting Form (1C) Continued

Student's Name(s) _____

4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

5. Did the student(s) work on the project as part of a group? Yes No
If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

I attest that the student(s) performed the work as indicated above and that any required review and approval by institutional regulatory agencies (ACUC/IBC) has been obtained. Copies are attached if applicable. I acknowledge that the student(s) presenting this work publicly in competition and I will inform the student research team of any requirements for my review and/or restrictions of work.

This should be the Mentor NOT the teacher

This must be dated AFTER the "End Date" on form 1A

<hr/> Supervising Adult's Printed Name	<hr/> Signature	<hr/> Title
<hr/> Institution		<hr/> Date Signed (must be after experimentation) (mm/dd/yy)
<hr/> Address		<hr/> Email/Phone

Qualified Scientist Form (2)
May be required for research involving human participants, vertebrate animals, potentially hazardous biological agents, and hazardous chemicals, activities and devices. Must be completed and signed before the start of student experimentation.

Student's Name(s) _____

Title of Project _____

To be completed by the Qualified Scientist:

Scientist Name: _____

Educational Background: _____ Degree(s): _____

Experience/Training as relates to the student's area of research:

Position/Institution: _____

Email/Phone: _____

1. Have you reviewed the ISEF rules relevant to this project and the science fair ethics statement relevant to this project? Yes No
2. Will any of the following be used?
 - a. Human participants Yes No
 - b. Vertebrate animals Yes No
 - c. Potentially hazardous biological agents (microorganisms, rDNA and tissues, including blood and blood products) Yes No
 - d. Hazardous substances and devices Yes No
3. Will this study be a sub-set of a larger study? Yes No
4. Will you directly supervise the student? Yes No
 - a. If no, who will directly supervise and serve as the Designated Supervisor? _____
 - b. Experience/Training of the Designated Supervisor: _____

To be completed by the Qualified Scientist:

I certify that I have reviewed and approved the Research Plan/ Project Summary prior to the start of the experimentation. If the student or Designated Supervisor is not trained in the necessary procedures, I will ensure her/his training. I will provide advice and supervision during the research. I have a working knowledge of the techniques to be used by the student in the Research Plan. I understand that a Designated Supervisor is required when the student is not trained in the necessary procedures and I will provide direct supervision during the experimentation under my direct supervision.

Qualified Scientist's Printed Name

Signature

Date of Approval (mm/dd/yy)

To be completed by the Designated Supervisor when the Qualified Scientist cannot directly supervise.

I certify that I have reviewed and approved the Research Plan and have been trained in the techniques to be used by the student and I will provide direct supervision.

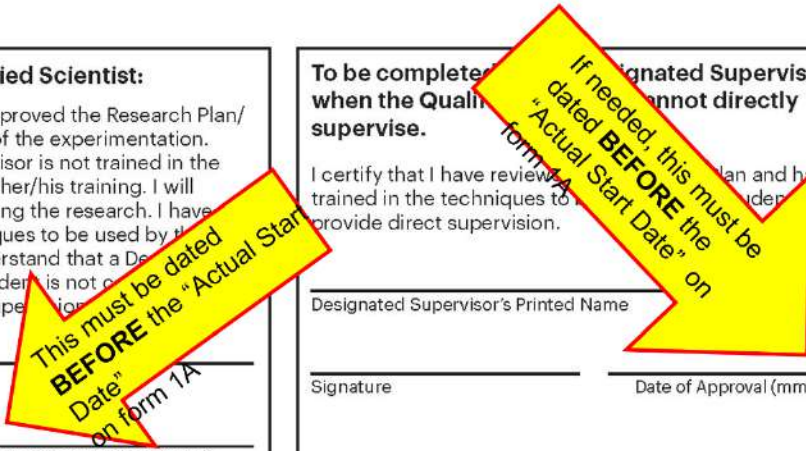
Designated Supervisor's Printed Name

Signature

Date of Approval (mm/dd/yy)

Phone

Email



Risk Assessment Form (3)

Must be completed before experimentation. Required for projects involving hazardous chemicals, activities or devices and may be needed by other projects.

Student's Name(s) _____

Title of Project _____

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist: (All questions must be answered; additional page(s) may be attached.)

1. Identify and assess the risks and hazards involved in this project.

2. a) List all hazardous chemicals, activities or devices to be used; b) identify and list all microorganisms to be used that are exempt from pre-approval (see Potentially Hazardous Biological Agent rules).

3. Describe the safety precautions and procedures that will be used to reduce the risks.

4. Describe the disposal procedures that will be used (when applicable).

5. List the source(s) of safety information.

To be completed and signed by the Designated Supervisor (or Qualified Scientist, if applicable):
 I agree with the risk assessment and safety precautions and procedures described above. I certify that I have read the Research Plan and the International Rules, including the science fair ethics statement and will provide my supervision.

 Designated Supervisor's Printed Name

 Signature

 Date of Review (mm/dd/yy)

 Experience/Training as relates to the student's area of research

 Position/Institution

 Phone or email contact information

This must be dated
BEFORE the "Actual Start
 Date" on form 1A

Human Participants Form (4)

Required for all research involving human participants not at a Regulated Research Institution. If at a Regulated Research Institution, use institutional approval forms for documentation of prior review and approval. (IRB approval required before recruitment or data collection.)

Student's Name(s)	Title of Project
Adult Sponsor	Phone/Email
MUST BE COMPLETED BY STUDENT RESEARCHER(S) IN COLLABORATION WITH THE ADULT SPONSOR/DESIGNATED SUPERVISOR/QUALIFIED SCIENTIST:	
1. <input type="checkbox"/> I have submitted my Research Plan/Project Summary which addresses ALL areas indicated in the Human Participants Section of the Research Plan/Project Summary Instructions. 2. <input type="checkbox"/> I have attached any surveys or questionnaires I will be using in my project or other documents. <input type="checkbox"/> Any published instrument(s) used was /were legally obtained. 3. <input type="checkbox"/> I have attached an informed consent that I would use if required by the IRB. 4. <input type="checkbox"/> Yes <input type="checkbox"/> No Are you working with a Qualified Scientist? If yes, attach the Qualified Scientist's name and contact information.	

Even though your school IRB may have given approval, the study must conform to all ISEF regulations

BELOW – IRB USE ONLY

MUST BE COMPLETED BY INSTITUTIONAL REVIEW BOARD (IRB) AFTER REVIEW OF THE RESEARCH PLAN. ALL QUESTIONS MUST BE ANSWERED FOR THE APPROVAL TO BE VALID. (IF NOT APPROVED, RETURN PAPERWORK TO THE STUDENT WITH INSTRUCTIONS FOR MODIFICATIONS.)	
<div style="border: 2px solid red; padding: 5px; color: red; font-weight: bold;"> <p>This form is to be filled out by the SCHOOL IRB and not the regional science fair review committee (SRC). However, be sure that your school IRB is aware of the rules and limitations of student research projects. For more information and the full list of rules: https://student.societyforscience.org/human-participants FOR CENTRAL NM ONLY...If the Regional SRC-IRB is reviewing for prior approval, please note that the signatures below need to be from the SCHOOL and the top part of IRB USEF ONLY box MUST be left blank so the reviewers can finalize the risk level, etc.</p> </div>	
<input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) <input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) with Minimal <input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) (study) <input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) (study) <input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) 18 yrs or older in this study) <input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) (r, designated supervisor, qualified <input type="checkbox"/> I am a member of the ISEF Student Society (All 6 months answered) (Completed to indicate the IRB	
I have consulted with a professional (psychologist, medical doctor, licensed social worker, licensed clinical professional counselor, physician's assistant, doctor of pharmacy, or registered nurse) with expertise related to this project.	
Educator	Degree/Professional License
Signature	Date of Approval (Must include month, day, and year.) (mm/dd/yy)
School Administrator	Degree/Professional License
Signature	Date of Approval (Must include month, day, and year.) (mm/dd/yy)
School Administrator	Degree/Professional License
Signature	Date of Approval (Must include month, day, and year.) (mm/dd/yy)

Notice that there is no more "expedited review" in this section

This CANNOT be the same teacher that signed as the "Adult Sponsor"

This must be dated BEFORE the "Actual Start Date" on form 1A

This must be dated BEFORE the "Actual Start Date" on form 1A

This must be dated BEFORE the "Actual Start Date" on form 1A

Human Informed Consent Form

Instructions to the Student Researcher(s): An informed consent/assent/permission form should be developed in consultation with the Adult Sponsor, Designated Supervisor or Qualified Scientist.

This form is used to provide information to the research participant (or parent/guardian) and to document written informed consent, minor assent, and/or parental permission.

- When written documentation is required, the researcher keeps the original, signed form.
- Students may use this sample form or may copy ALL elements of it into a new document.

If the form is serving to document parental permission, a copy of any survey or questionnaire must be attached.

Student Researcher(s): _____

Title of Project: _____

You are being asked to volunteer to participate in this science project. If you wish to participate, please sign in the appropriate area below.

Purpose of the project:

If you participate, you will be asked to:

Time required for participation:

Potential Risks of Study:

Benefits:

How confidentiality will be maintained:

If you have any questions about this study, feel free to contact:

Adult Sponsor/QS/DS _____ Phone/email _____

Voluntary Participation:

Participation in this study is completely voluntary. There will be no negative consequences if you decide not to participate, stop participating, or refuse to answer any question.

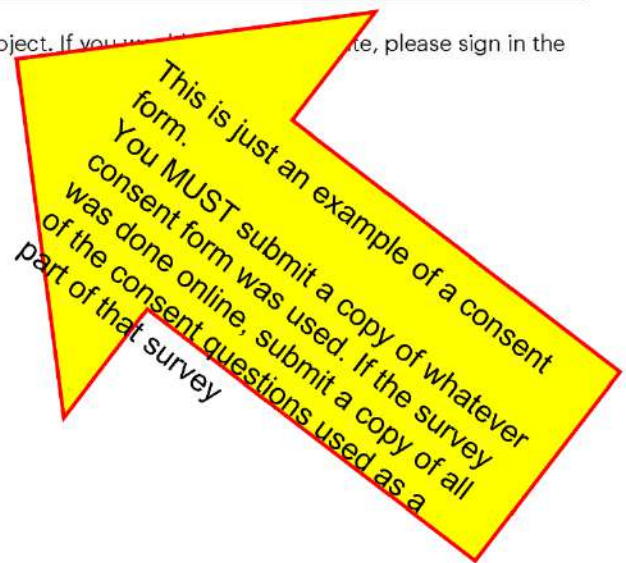
By signing this form I am attesting that I have read and understand the information above and I freely give my consent/assent to participate or permission for my child to participate.

Adult Informed Consent or Minor Assent Date Reviewed & Signed _____
(mm/dd/yy)

Research Participant Printed Name _____ Signature: _____

Parental/Guardian Permission (if applicable) Date Reviewed & Signed _____
(mm/dd/yy)

Parent/Guardian Printed Name _____ Signature _____



Vertebrate Animal Form (5A)
Required for all research involving vertebrate animals that is conducted in a school/home/field research site.
(SRC approval required before experimentation.)

Student's Name(s) _____

Title of Project _____

To be completed by Student Researcher:

1. Common name (or Genus, species) and number of animals used.
2. Describe completely the housing and husbandry to be provided. Include the cage/pen size, number of animals per cage, environment, bedding, type of food, frequency of food and water, how often animal is observed, etc. Add an additional page as necessary.
3. What will happen to the animals after experimentation?
4. Attach a copy of wildlife licenses or approval forms, as applicable
5. The ISEF Vertebrate Animal Rules require that any death, illness or unexpected weight loss be investigated and documented by a letter from the qualified scientist, designated supervisor or a veterinarian. If applicable, attach this letter with this form when submitting your paperwork to the SRC prior to competition.

To be completed by Local or Affiliate Fair Scientific Review Committee (SRC) BEFORE experimentation.

Level of Supervision Required for agricultural, behavioral or nutritional studies (select one):

Designated Supervisor REQUIRED. Please have applicable person sign below.

Veterinarian and Designated Supervisor REQUIRED. Please have applicable persons sign below.

Veterinarian, Designated Supervisor and Qualified Scientist REQUIRED. Please have applicable persons sign below and have the Qualified Scientist complete Form (2).

The SRC has carefully reviewed this study and finds it is an appropriate study that may be conducted in a non-regulated research site.

Local or Affiliate Fair SRC Pre-Approval Signatures:

SRC Chair Printed Name _____ Signature _____ Date of Approval (must be before experimentation) (mm/dd/yy) _____

<p>To be completed by Veterinarian:</p> <p><input type="checkbox"/> I have reviewed this research and approved it with the student before the start of experimentation.</p> <p><input type="checkbox"/> I have approved the use and dosages of drugs and/or nutritional supplements.</p> <p><input type="checkbox"/> I will provide veterinary medical and emergency care in case of illness or emergency. (Fees _____)</p> <p>Printed Name _____ Email/Phone _____</p> <p>Signature _____ Date of Approval (mm/dd/yy) _____</p>	<p>To be completed by Designated Supervisor and Qualified Scientist when applicable:</p> <p><input type="checkbox"/> I have reviewed this research and approved it with the student before the start of experimentation. I accept primary responsibility for the care of the animals in this project.</p> <p><input type="checkbox"/> I will directly supervise the experiments.</p> <p>Printed Name _____ Email/Phone _____</p> <p>Signature _____ Date of Approval (mm/dd/yy) _____</p>
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This must be dated BEFORE the "Actual Start Date" on form 1A

This must be dated BEFORE the "Actual Start Date" on form 1A

Vertebrate Animal Form (5B)

Required for all research involving vertebrate animals that is conducted in at a Regulated Research Institution.
(IACUC approval required before experimentation. Form must be completed and signed after experimentation.)

Student's Name(s) _____

Title of Project _____

Title and Protocol Number of IACUC Approved Project _____

You MUST include a copy of the actual IACUC form with the protocol number

To be completed by Qualified Scientist or Principal Investigator:

1. Species of animals used: _____ Number of animals used: _____

2. Describe, in detail, the role of the student in this project: animal procedures and related equipment that were involved, oversight provided and safety precautions employed. (Attach extra pages if necessary.)

3. Was there any weight loss or death of any animal? If yes, attach a letter obtained from the qualified scientist, designated supervisor or a veterinarian documenting the situation and the results of the investigation.

4. Did the student's project also involve the use of tissues?

No

Yes; Forms 6A and 6B were completed and approved PRIOR to experimentation.

5. What laboratory training, including dates, was provided to the student?

6. **Attach a copy of the Regulated Research Institution IACUC Approval.** A letter from the Qualified Scientist or Principal Investigator is not sufficient.

Qualified Scientist/Principal Investigator	
Printed Name	
Signature	Date (mm/dd)

This must be dated **AFTER** the "End Date" on form 1A

Potentially Hazardous Biological Agents Risk Assessment Form (6A)

Required for research involving microorganisms, rDNA and other vertebrate fresh/frozen tissue, blood, blood products and body fluids.

SRC/IACUC/IBC approval required before experimentation.

Student's Name(s) _____

Title of Project _____

To be completed by the QUALIFIED SCIENTIST/DESIGNATED SUPERVISOR in collaboration with the student researcher(s). All questions are applicable and must be answered; additional page(s) may be attached.

SECTION 1: PROJECT ASSESSMENT

1. Identify potentially hazardous biological agents to be used in this experiment. Include the source, quantity and the biosafety level risk group of each microorganism.
2. Describe the site of experimentation including the level of biological containment.
3. Describe the procedures that will be used to minimize risk (personal protective equipment, hood type, etc.).
4. What final biosafety level do you recommend for this project given the risk assessment you conducted?
5. Describe the method of disposal of all cultured materials and other potentially hazardous biological agents.

SECTION 2: TRAINING

1. What training will the student receive for this project?
2. Experience/training of Designated Supervisor as it relates to the student's area of research (if applicable).

SECTION 3: For ALL CELL LINES, MICROORGANISMS AND TISSUES – To be completed by the QUALIFIED SCIENTIST or DESIGNATED SUPERVISOR - Check the appropriate box(es) below:

- Experimentation on the microorganisms/cell lines/tissues to be used in this study will NOT be conducted at a Regulated Research Institution, but will be conducted at a (check one) BSL-1 or BSL-2 laboratory (include a copy of the checklist for BSL-2). [This study has been reviewed by the local SRC and the procedures have been approved prior to experimentation.]
- Experimentation on the microorganisms/cell lines/tissues to be used in this study will be conducted at a Regulated Research Institution and was approved by the appropriate Institutional Review Board prior to experimentation; institutional approval forms are attached.
Origin of cell lines: _____ SRC/IACUC/IBC approval _____
- Experimentation on the microorganisms/cell lines/tissues to be used in this study will be conducted at a Regulated Research Institution, which does not have an Institutional Review Board. This type of study. The SRC has seen and approved the research plan and supporting documentation. The SRC/IBC/IRB acknowledges the accuracy of the responses above.

CERTIFICATION – To be SIGNED by the QUALIFIED SCIENTIST or DESIGNATED SUPERVISOR

The QS/DS has seen this project's research plan and supporting documentation and acknowledges the accuracy of the information provided above. This study has been approved as a BSL-1/ BSL-2 study, and will be conducted in an appropriate laboratory.

QS/DS Printed Name

Date of review (mm/dd/yy)

SECTION 4: CERTIFICATION – To be SIGNED by the QUALIFIED SCIENTIST or DESIGNATED SUPERVISOR

The SRC has seen this project's research plan and supporting documentation and acknowledges the accuracy of the information provided.

SRC Printed Name

Date of review (mm/dd/yy)

Human and Vertebrate Animal Tissue Form (6B)

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. If the research involves living organisms please ensure that the proper human or animal forms are completed. **All projects using any tissue listed above must also complete Form 6A.**

Student's Name(s) _____

Title of Project _____

To be completed by Student Researcher(s):

- What vertebrate animal tissue will be used in this study? Check all that apply.
 - Fresh or frozen tissue sample
 - Fresh organ or other body part
 - Blood
 - Body fluids
 - Primary cell/tissue cultures
 - Human or other primate established cell lines
 - Other

- Where will the above tissue(s) be obtained? If using an established cell line include source and catalog number.

- If the tissue will be obtained from a vertebrate animal study conducted at a research institution, attach a copy of the IACUC certification with the name of the research institution, the title of the study, the IACUC approval number and a copy of IACUC approval.

This must be dated **BEFORE** the "Actual Start Date" on form 1A

To be completed by the Qualified Scientist or Designated Supervisor:

I verify that the student will work solely with organs, tissues, cultures or cells that will be supplied or prepared by myself or qualified personnel from the laboratory; and that if vertebrate animals were euthanized the tissues will be utilized for a purpose other than the student's research.

AND/OR

I certify that the blood, blood products, tissues or body fluids in this project will be handled in accordance with the standards and guidance set forth in U.S. Occupational Safety and Health Act, 29CFR, Subpart 1910.103, Blood Borne Pathogens.

Printed Name _____ Signature _____ Date of Approval (mm/dd/yy)
(Must be prior to experimentation.)

Title _____ Phone/Email _____

Institution _____

Continuation/Research Progression Projects Form (7)

Required for projects that are a continuation/progression in the same field of study as a previous project. This form must be accompanied by the previous year's abstract and Research Plan/Project Summary.

Student's Name(s) _____

To be completed by Student Researcher(s): List all components of the current project that make _____ from previous research. The information must be on the form; use an additional form for previous year _____.

Components	Current Research Project	Previous Research
1. Title		
2. Change in goal/ purpose/objective		
3. Changes in methodology		
4. Variable studied		
5. Additional changes		

If the project has been carried out (partially) before the start of 2022

Continuation projects **MUST** include this form. For the immediately prior year, researcher **MUST** include **BOTH** the Abstract & Research Plan. For any years farther back, the researcher **MUST** include the Abstract for each additional prior year's work.

FOR ALL projects that were conducted /began before January 1st 2022

Attached are:
 Abstract and Research Plan/Project Summary, Year _____

I/we hereby certify that the above information is correct and that the current year Abstract & Certification and project display board properly reflect work done only in the current year.

 Student's Printed Name(s) Signature Date of Signature (mm/dd/yy)