# **Checklist for Adult Sponsor / Safety Assessment Form (1)**

This completed form is required for ALL projects and must be completed prior to experimentation

Stı	ıdent's Name			
1)	The student and a parent / guardian have signed the <b>Approval Form (1B)</b> .			
2)	I have reviewed the Research Plan (1A), Research Plan Attachment and signed Approval Form (1B).			
3)	This project involves the following area(s) and requires <b>SRC/IRB approval</b> before experimentation begins:			
	Human Subjects	Control	lled Substances	
	Vertebrate Animals	Recomb	oinant DNA	
	Pathogenic Agents*			
	* All bacteria, fungi, etc. is	olated from the environment should b	e considered potentially pathogenic.	
4)	This project does not involve any	of the research areas listed in #3.		
5)	This project involves human subjeted Board (IRB) before experimentation	* *	val from an Institutional Review	
6)		•	ed substances or recombinant  Committee (SRC)/IACUC before	
7)		pervision to the student. Prior appr	devices checked below. A Designated roval by the adult sponsor and certification by	
	LI	_	rmined that this project is a tissue study and r a purpose other than the student's project.	
	reviewed with the student the Ma also reviewed the proper safety s	terial Safety Data Sheet (MSDS) Listi tandards for each chemical including	rcinogens; mutagens and all pesticides). I have ing for each chemical that will be used. I have toxicity data, proper handling techniques, and sit the American Chemical Society's website at	
	operational procedures and safet		nave reviewed with the student the proper used by the student. For information about	
	Firearms. I have reviewed w	th the student the proper safety standa	ards for firearms use.	
	Radioactive Substances. student will use.	have reviewed the proper safety stan	dards for each radioactive substance the	
		r; unshielded ionizing radiation of 100- ls concerning the type of radiation the	-400 nm wavelength). I have reviewed with the e student will use.	
	dult Sponsor's Printed Name  ternational Rules 2004/2005 full text of the	Signature rules and electronic copies of forms a	Date of Review (Must be prior to experimentation.)  are available at www.sciserv.org/isef Page 26	

### Research Plan (1A)

#### This completed form is required for ALL projects.

Type or print all information requested.

Answer all questions and complete Research Plan Attachment (see page 28)

1) Student's Name	Grade
2) Title of Project	
3) Adult Sponsor	Phone: Email:
4) Is this a continuation from a previous year? Yes If Yes: a) Attach the previous year's abstract, Resear b) Explain how this project is new and differen	
5) This year's laboratory experiment/data collection will be	egin: (must be stated (mm/dd/yy)
Projected Start Date:	Projected End Date:
ACTUAL Start Date:	ACTUAL End Date:
6) Where will you conduct your lab work? (check all that appl	y) Research Institution School Field Hon
7) Name, address & phone of school and work site(s):  School:  Work site:	Work site:
8) All projects require completed forms: Checklist Research Plan (1A), Research Plan Attachment a Research Institutional/Industrial Setting Form (1	nd Approval Form (1B) and may require Regulated
Check ALL items that apply to your research.  The following areas require review and approval	by SRC or IRB prior to experimentation:
Humans (requires prior IRB approval; complete Forms: C	Checklist, 1A, 1B, 4 [1C, 2, 3, if required]
☐ Vertebrate Animals (requires prior SRC or IACUC appro	oval, complete: Checklist, 1A, 1B, 5A or 5B [1C, 2, 3, if required])
Pathogens (requires prior SRC approval; complete Forms	:: Checklist, 1A, 1B, 2 [1C, 3, if required])
	mplete Forms: Checklist, 1A, 1B, 2 or 3 [1C, 2, 3 as required])
Recombinant DNA (requires prior SRC approval, comple	ete Forms: Checklist, 1A, 1B [2, 3, 1C, as required])
The following areas require approval by a Design	ated Supervisor prior to experimentation:
Human/Animal Tissue (complete Forms: Checklist, 1A,	1B, 3,6 [1C, if required])
Hazardous Substances or Devices (complete Forms: Che	ecklist, 1A, 1B, 3 [1C, if required])

- 9) Complete Research Plan Attachment (See page 28) and attach to this form.
- 10) An abstract is required for all projects after experimentation (see page 24).

#### **Research Plan Attachment**

REQUIRED for ALL Projects
A complete research plan must accompany Research Plan Form (1A)
Additional pages may be attached

<b>Student Name(s):</b>	
( )	

Provide a typed research plan and attach to Research Plan Form (1A).

The research plan is to include the following:

- A. Question being addressed
- B. Hypothesis/Problem/Engineering Goals
- C. Description in detail of method or procedures (including chemical concentrations and drug dosages)

For human research, include survey or questionnaires if used, and critically evaluate the risk. See instructions for human research on p. 12 of the Rules. For vertebrate animal research, you must briefly discuss POTENTIAL ALTERNATIVES and present a detailed justification for use of vertebrate animals. See instructions on p. 15 of the International Rules.

#### D. Bibliography

List at least five major references (*e.g.*, science journal articles, books, internet sites) from your library research. If you plan to use vertebrate animals, give an additional animal care reference.

### Research Plan (1A) - TEAM

This completed form is required for ALL projects.

Type or print all information requested.

Answer all questions and complete Research Plan Attachment (see page 28)

1) a) Team Leader		Grade
b) Team Member	c) Team Member	
2) Title of Project		
3) Adult Sponsor	Phone:	Email:
, ,	vious year? Yes No year's <b>abstract</b> , <b>Research Plan 1A</b> and oject is new and different from previous y	
5) This year's laboratory experime	ent/data collection will begin: (must be s	stated (mm/dd/yy)
Projected Start Date:	Projected En	nd Date:
ACTUAL Start Date:	ACTUAL E	nd Date:
6) Where will you conduct your lab	b work? (check all that apply) Research	Institution School Field Home
7) Name, address & phone of school:	ol and work site(s):  Work site:	Work site:
	eted forms: Checklist for Adult Spon	• • • • • • • • • • • • • • • • • • • •
Research Institutional/Indu		min (1D) and may require Regulated
Check ALL items that apply t	to your research.	
The following areas require	review and approval by SRC or IRB	prior to experimentation :
Humans (requires prior IRB a	pproval; complete Forms: Checklist, 1A, 1B, 4	[1C, 2, 3, if required]
Vertebrate Animals (requires	prior SRC or IACUC approval, complete: Chec	cklist, 1A, 1B, 5A or 5B [1C, 2, 3, if required])
Pathogens (requires prior SRC	Capproval; complete Forms: Checklist, 1A, 1B	, 2 [1C, 3, if required])
Controlled Substances (requi	ires prior SRC approval; complete Forms: Chec	cklist, 1A, 1B, 2 or 3 [1C, 2, 3 as required])
Recombinant DNA (requires)	prior SRC approval, complete Forms: Checklist	t, 1A, 1B [2, 3, 1C, as required])
The following areas require	approval by a Designated Supervisor	· prior to experimentation:
Human/Animal Tissue (com	plete Forms: Checklist, 1A, 1B, 3, 6 [1C, if requ	uired])
Hazardous Substances or De	vices (complete Forms: Checklist, 1A, 1B, 3 [1	C. if required])

- 9) Complete Research Plan Attachment (See page 28) and attach to this form.
- 10) An abstract is required for all projects after experimentation (see page 24).

# **Approval Form (1B)**

This completed form is required for ALL projects.

adhere to all International Rules when conducting th	ns research.		
Student's Printed Name	Signature		Date Acknowledged (Must be prior to experimentation.)
Parent/Guardian Approval: I have read and un and Attachment. I consent to my child participating i		ks and possible dangers invo	lved in the Research Plan (IA)
Parent/Guardian's Printed Name	Signature		Date of Approval (Must be prior to experimentation.)
c) Adult Sponsor Approval: I have read the Resea Checklist for Adult Sponsor with the student. I agree for compliance with all International ISEF Rules as the	ee to sponsor th	e student named above and as	
Adult Sponsor's Printed Name	Signature		Date of Approval (Must be prior to experimentation.)
2) Required for projects requiring S	SRC/IRB	APPROVAL. SIGN 2	
a) Required for projects that need prior SI IRB approval BEFORE experimentatio (i.e., see Item #8 on Form 1A.)		, -	arch conducted at all ch Institutions with no B approval
The SRC/IRB has carefully studied this project's <b>Rese Plan (1A) and Attachment</b> and all the required forms ar  included. My signature indicates approval of the <b>Rese Plan (1A)</b> before the student begins experimentation.	re	This project was conducted institution ( <b>not home or hig</b> and approved by the proper	at a regulated research sh school, etc.), was reviewed r institutional board before es with the ISEF Rules. Attach
SRC/IRB Chair's Printed Name	-	SRC/IRB Ch	nair's Printed Name
Signature Date of Appro		Signature	Date of Approval
NOTE: If a stam	np is used, it m	ust be initialed by the cha	irperson.
3) Final ISEF Affiliated Fair SRC A	APPROVAL.	(REQUIRED FOR AL)	L Projects)
SRC Approval After Experimentation and S I certify that this project adheres to the approved Resear	-	_	
Regional SRC Chair's Printed Name	Signature		Date of Approval
State/National SRC Chair's Printed Name	Signature		Date of Approval

(where applicable)

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

This form must be completed by the scientist supervising the student research conducted in a regulated research institution (e.g., universities, medical centers, NIH, etc.) or industrial setting.

This for	This form MUST be displayed with your project.			
Student's Name				
Title of Project				
To be completed by the Scientist (NOT The student conducted research at my instit		fter experimentation:		
a) only to use the equipment	b) to perform experimen	nt(s)		
If b, the following questions must be an	swered.			
1) How did the student get the idea for her (e.g. Was the project assigned, picked from a list	1 3			
2) Were you made aware of the ISEF rules	s before experimentation?	Yes No		
,	3) Did the student work on the project as a part of a research group?   Yes   No  If yes, how large was the group and what kind of research group was it (students, group of adult researchers, etc.)			
4) What specific procedures did the studen Please list and describe. (Do not list procedures		ently did the student work?		
Student research projects dealing approval by an institutional regula	5	nimals or rDNA require review and fapproval(s) must be attached.		
Scientist's Printed Name	gnature	Title		
Institution		Date Signed		
Address		Email/Phone		

full text of the rules and electronic copies of forms are available at www.sciserv.org/isef

International Rules 2004/2005

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## **Qualified Scientist Form (2)**

Required for research involving pathogens; may be required for research involving rDNA, vertebrate animals, controlled substances and humans. Must be signed prior to the start of student experimentation.

Stı	Student's Name				
Tit	Title of Project				
	be completed by the Qualified Scientist (qualifications must be in student's an ientist's Name	rea of research):			
	degree does not clarify qualifications in student's area of research, please explain:				
Po	osition: Institution:				
A	ddress: Email/Phone:				
1)	<ul> <li>Will vertebrate animals be used?</li> <li>a) If yes, were alternatives (see page 15) explored?</li> <li>b) Could this project cause pain or distress to the vertebrate animal(s)?</li> <li>c) Does this project duplicate previously published research?</li> <li>If yes to any of the above (a, b, c) please explain and justify:</li> </ul>	yes yes yes yes yes	<ul><li>□ no</li><li>□ no</li><li>□ no</li><li>□ no</li></ul>		
	Will human subjects be used?	yes yes	no no		
	federal regulations? b) Please list the name(s) of the controlled substance(s):	∐ yes	no		
4)	Will recombinant DNA be used?	☐ yes	no		
5)	Will pathogenic or potentially pathogenic agents be used?	yes	no		
	If yes, will accepted procedures be used?	yes	no		
6)	Will tissues or body fluids be used?	yes	no		
7)	Will hazardous substances be used?	yes	no		
8)	Will you directly supervise the student(s)?		no		
1	I certify that I have reviewed and approved the <b>Research Plan (1A)</b> and <b>Attachment</b> prior to the Designated Supervisor is not trained in the necessary procedures, I will ensure her/his training. I w research. I have a working knowledge of the techniques to be used by the student in the <b>Research</b> substance is used in this research, I certify that I possess a DEA license required for procuring and that a Designated Supervisor is required when the student is not conducting experimentation under	ill provide advice a Plan (1A) and Atta dispensing an addimy direct supervis	nd supervision during the <b>chment</b> . If an addictive ctive substance. I understand ion.		
(	Qualified Scientist's Printed Name Signature		Approval prior to experimentation.)		

# **Designated Supervisor Form (3)**

Required for projects using hazardous materials or devices, tissue studies or if a required Qualified Scientist is unable to supervise the experimentation.

Student's Name		
Title of Project		
To be completed by the Designated		pe):
Name		
Position		
Institution		
List or describe your responsibilities and devices used in this research, s		dent. Include all hazardous substances d the proper disposal procedures:
I certify that:  1) I have been trained in the techniq 2) I will provide direct supervision.	ques to be used by this student prior	to the start of experimentation and that
Designated Supervisor's Printed Name	Signature	Date of Signature (must be prior to experimentation.)

Human Subjects Form (4)
Required for all research involving humans. IRB approval required before experimentation.

		**	•	<u> </u>
Student's Name				
Title of Project				
To be completed by Student Res  1) Describe the purpose of this study of the subject's involvement. Attach	and list all of the research p	procedures in which		
Describe and assess any potential rethat may be reasonably expected by			s (physical, psycho	ological, social, legal or other)
3) Describe the procedures that will b	e used to minimize risk, to c	obtain informed cons	sent, and to mainta	in confidentiality.
D ' 1'	41: 1 4 4		,	
For questions or concerns regarding	this research, contact:Adu	lt Sponsor	at Email/pho	one ·
More than minimal risk where in IRB SIGNATURES (a minimum 1) Medical Professional: (circle) (a lame 1) Member of IRB's Printed Name 2) Science Teacher:	m of three signatures i	s required)	sed social worker, phy	rsician's assistant, or registered nurse) te of Approval
Member of IRB's Printed Name  3) School Administrator:	Signature		Dat	te of Approval
Member of IRB's Printed Name	Signature		Dat	te of Approval
To be completed by Human Su  ( prior to experimen  I have read and understand the co and I consent/assent to voluntaril	onditions and risks above	(Prior to expen	informed consen	en participant is under 18 and
research study.  I realize I am free to withdraw my consent and to withdraw		and consent to the participation of my child.  I have reviewed a copy of any survey or questionnaire us		•
from this study at any time witho	ut negative consequences.	in the reso		1. (1)
I consent to the use of visual imaginvolving my participation in this			to the use of visua my child in this re-	al images (photos, videos, etc.) search.
Signature	Date	Signature		Date

Vertebrate Animal Form (5A)
Required for all research involving vertebrate animals that is conducted in a Non-Regulated Research Site. (SRC approval required before experimentation.)

Student's Name				
Title of Project				
To be completed by Stude	ent Researcher:			
1 0	s, species) and number of anima	ls used.		
¥ ,	<ol> <li>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.</li> </ol>			
3. What will happen to the a	animals after experimentation?			
3. What will happen to the c	annuis area experimentation:			
	eview Committee (SRC) PRIOR to	•		
	y. Veterinarian and Designated Supervisor REOUE	•	n sian balaw	
	l study. Designated Supervisor REQUI l study. Veterinarian and Designated S			
	l study. Veterinarian, Designated Supe		UIRED. Please have applicable persons	
The SRC has carefully reviewe	ed this study and finds it is an approp	priate study and may be conduct	ted in a non-regulated research site.	
SRC Pre-Approval Signature:				
SRC Chair Printed Name	Signature		Date of Approval	
I certify that I have reviewe husbandry with the student experimentation.  I certify that I will provide v care in case of illness or em	d this research and animal prior to the start of reterinary medical and nursing	quality of care and handling	d this research and animal	
Printed Name	Email/Phone	Printed Name	Email/Phone	
Signature	Date of Approval	Signature	Date of Approval	

Vertebrate Animal Form (5B)
Required for all research involving vertebrate animals that is conducted at a Regulated Research Institution. (IACUC approval required before experimentation.)

	udent's Name			
Ti	tle of Project			
Ti	Title and Protocol Number of IACUC Approved Project			
=				
	be completed by Qualified Scientist			
1.	Was this a student-generated idea or wa	s it a subset of your wo	ork?	
2.	Were you made aware of the ISEF Rule	s before the student be	gan experimentation?	
3.	What laboratory training, including dates	s, was provided to the st	udent?	
4.	Species of animals used:		Number of ani	mals used:
5.	USDA Pain Category designated for this	s study:		
6.	Describe, in detail, the role of the student provided and safety precautions employ	1 2 1	* *	lved with, oversight
7.	Attach a copy of the Regulated Resea Principal Investigator is not sufficient.	rch Institution IACU	C <b>Approval.</b> A letter from the Q	ualified Scientist or
Co	ertification or Documentation of Student Rese	archer Training		
Lis	st Certificate Number or Attach Documentation		Date(s) of Training	
Q	S/PI Printed Name	Signature		Date
ĪĀ	CUC Chair/Coordinator Printed Name	Signature		Date

#### **Human and Vertebrate Animal Tissue Form (6)**

Required for all projects using fresh tissue, organs, primary cell cultures, established cell and tissue cultures, meat or meat by-products, human or animal parts, including blood, blood products, teeth and body fluids.

If the research involves living organisms, please ensure that the proper human or animal forms are completed.

Student's Name		
Title of Project		
<b>To be completed by Studen</b> 1) What tissue(s), organ(s), or p		
2) Where will the above tissue	e, organ, or part be obtained (identify each separate	ately):
study from which the tissue	a a source within a research institution, please pr was obtained. Include the name of the research and date of IACUC approval.	
The stand have the D		
myself or qualified pers	will work solely with organs, tissues, cultures o sonnel from the laboratory; and that if vertebrates other than the student's research.	
	blood products, tissues or body fluids in this pro ance set forth in Occupational Safety and Health s.	
Printed Name	Signature	Date Signed (Must be prior to experimentation.)
Title		Phone
Institution		

## **Continuation Projects Form (7)**

Required for projects that are a continuation in the same field of study from a previous year(s)' project.

This form is required for projects exhibiting at the Intel ISEF and should be accompanied by
the previous year's abstract and Research Plan (1A) with Attachment.

Please use a separate sheet of paper to list additional years as necessary.

Student's Name		
Title of Project		
To be completed by Student Researcher:		
1) How does the current year's project document new	and different research?	
2) Please briefly explain former years' work on this proj	ject, emphasizing how it is different	from the current year.
2003-2004 - Describe and Submit: Abstract	Research Plan (1A) with Research Pla	an Attachment
2002-2003		
2002 2000		
2001 2002		
2001-2002		
Please use a separate sheet of paper to list additional y	ears as necessary.	
	our project to help provide the judges a	
understanding of your project and v	what research has been done in the cur	rent year.
I 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 Sign	nature	Date of Signature