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

<ol> <li>To Be Completed by</li> </ol>	Student and	Parent
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1. To Be Completed		d Parent				
a. Student Acknowled	-		ė., (	. , ,	,	
	•	_		he proposed research		
	SEF Rules and Gui	delines and will	i adh	ere to all Internationa	il Rules whe	n conducting this
research.	20 1 1 1 1 to 11 a fac	· · · · · · · · · · · · · · · · · · ·		. 1		
	will abide by the fo	<del>-</del>				
Student researchers are exp are not condoned at any lev or presentation of other res	vel of research or co searcher's work as o	ompetition. Such	h pra	ictices include but are r	not limited t	to plagiarism, forgery, use
competition in affiliated fair		1 -	,	m		. 1 ]
<u>Antonia Pave</u>	<u>K</u>	Antonia	·/	Parel		09/05/19
Student's Printed Name		Signature	v			knowledged (mm/dd/yy) se prior to experimentation.)
	<b>ject Summary</b> . I co			the risks and possible d articipating in this rese		olved in the
Shuk Pavek		Shuk 4	ſ. <u> </u>	land_		09/05/19
Parent/Guardian's Printed		Signature			Date Ack	knowledged (mm/dd/yy)
		_				e prior to experimentation.)
a. Required for projects that BEFORE experimentation	at need prior SRC/IRB	approval	]		arch conducte	ed at all Regulated Research RC/IRB approval.
hazardous biological agen	its).		OR			to the street and
The CDC/IDD bearing Addition	otta dalamata da Bar	h Dlan/		1	_	lated research institution
The SRC/IRB has carefully stud Project Summary and all the re				I -		reviewed and approved by the perimentation and complies
signature indicates approval of	-	· ·		1 ' '	-	any required institutional
before the student begins expe		Tojeccommin		approvals (e.g. IACUC, I		any required months
SRC/IRB Chair's Printed Name	3			SRC Chair's Printed Nar	me	
Signature	Date of Approva	al (mm/dd/yy)			<del></del> _	- : :: : : : : : : : : : : : : : : : :
<b>5.6</b>	(Must be prior to exp			Signature	L (1	Date of Signature (mm/dd/yy) May be after experimentation)
3. Final ISEF Affiliated	d Fair SRC App	roval (Re	] quir	red for ALL Projec	cts)	
					<u></u>	
SRC Approval After Experime	entation and Before	Competition at Re	egion	ıal/State/National Fair		
Legality that this project adhe		-	_		ith all ISEE Ru	ules

SRC Approval After Experimentation and Bef I certify that this project adheres to the approv		
Regional SRC Chair's Printed Name	Signature	Date of Approval (mm/dd/yy)
State/National SRC Chair's Printed Name (where applicable)	Signature	Date of Approval (mm/dd/yy)

## Approval Form (1B)

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

<ol> <li>To Be Completed by Student and Pa</li> </ol>	arent
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a. Student Acknowledgment:

Signature

 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 I have read and will abide by the following Ethics statement Student researchers are expected to maintain the highest standards of honesty and integrity. Scientific fraud and misconduct are not condoned at any level of research or competition. Such practices include but are not limited to 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. Suleman Yousut Date Acknowledged (mm/dd/yy) Student's Printed Name (Must be prior to experimentation.) b. Parent/Guardian Approval: I have read and understand the risks and possible dangers involved in the Research Plan/Project Summary. I consent to my child part/cipating in this research. Date Acknowledged (mm/dd/ Parent/Guardian's Printed Name (Must be prior to experimentation.) 2. To be completed by the local or affiliated Fair SRC (Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate.) Required for projects that need prior SRC/IRB approval Required for research conducted at all Regulated Research BEFORE experimentation (humans, vertebrates or potentially Institutions with no prior fair SRC/IRB approval. hazardous biological agents). OR This project was conducted at a regulated research institution (not home or high school, etc.), was reviewed and approved by the The SRC/IRB has carefully studied this project's Research Plan/ proper institutional board before experimentation and complies Project Summary and all the required forms are included. My signature indicates approval of the Research Plan/Project Summary with the ISEF Rules. Attach (1C) and any required institutional before the student begins experimentation. approvals (e.g. IACUC, IRB). SRC/IRB Chair's Printed Name SRC Chair's Printed Name

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

Date of Approval (mm/dd/yy)

(Must be prior to experimentation.)

SRC Approval After Experimentation and Bei I certify that this project adheres to the approv		
Regional SRC Chair's Printed Name	Signature	Date of Approval (mm/dd/yy)
State/National SRC Chair's Printed Name (where applicable)	Signature	Date of Approval (mm/dd/yy)

Signature

Date of Signature (mm/dd/yy)

(May be after experimentation)