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

1. To Be Completed by Student a	nd Parent		
a. Student Acknowledgment:			
I understand the risks and possible			
 I have read the ISEF Rules and G 	uidelines and will adl	here to all International	Rules when conducting this
research.			
 I have read and will abide by the 	following Ethics stat	:ement	
Student researchers are expected to maintai	in the highest standar	rds of honesty and integr	rity. Scientific fraud and misconduct
are not condoned at any level of research or	competition. Such pra	actices include but are n	ot limited to plagiarism, forgery, use
or presentation of other researcher's work a	s one's own, and fabr	ication of data. Fraudule	ent projects will fail to quality for
competition in affiliated fairs and ISEF.	0 011		50104440
Damien Edele) Edde		02/01/19
			- A Li vilidad (man (dd (m)
Student's Printed Name	Signature		Date Acknowledged (mm/dd/yy)
the state of the s	Il nd auckand	the minter and possible de	(Must be prior to experimentation.)
b. Parent/Guardian Approval: I have r	ead and understand	The risks and possible de	arigers involved in the
Research Plan/Project Summary. I	consens to my crind p	Jai ticipating in this i esci	
Janine Doran	nere		02/01/19
Parent/Guardian's Printed Name	Signature		Date Acknowledged (mm/dd/yy)
	J		(Must be prior to experimentation.)
	etes or potentially OI Research Plan/ included. My	Institutions with no R This project was conduct (not home or high school proper institutional boar	<u>d</u>
3. Final ISEF Affiliated Fair SRC Approval After Experimentation and Before I certify that this project adheres to the approve	re Competition at Regio	nired for ALL Project onal/State/National Fair ct Summary and complies wi	
Regional SRC Chair's Printed Name	Signature		Date of Approval (mm/dd/yy)

Date of Approval (mm/dd/yy)

Signature

State/National SRC Chair's Printed Name

(where applicable)

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

1.	To I	Be	Comp	leted	by	Student	and	Parent
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- a. Student Acknowledgment:
 - I understand the risks and possible dangers to me of the proposed research plan.

 I have read the ISE research. I have read and wi 					lles when conducting this
are not condoned at any level or presentation of other resea	of research or co archer's work as o	mpetition. Such	prac	ctices include but are not l	s. Scientific fraud and misconduct limited to plagiarism, forgery, use projects will fail to qualify for
competition in affiliated fairs Christopher Jannotta		Christopher		Sandta 2	/1/2019
Student's Printed Name		Signature		С	Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)
b. Parent/Guardian App Research Plan/Proje	ct Summary . I cor	a and understansent to my chi	ld pa	rticipating in this researc	h.
Joanny Janno	Ha	Lyano	fe.	2/	1/2019
Parent/Guardian's Printed N		Signature			Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)
a. Required for projects that representation (In the SRC/IRB has carefully studied Project Summary and all the required signature indicates approval of the student begins experience.	humans, vertebrates). ed this project's Res q uired forms are incl he Research Plan/P	earch Plan/ uded. My	OR	Institutions with no pr This project was conducted (not home or high school, education proper institutional board be	conducted at all Regulated Research for fair SRC/IRB approval. at a regulated research institution tc.), was reviewed and approved by the refore experimentation and complies (1C) and any required institutional.
SRC/IRB Chair's Printed Name			_	SRC Chair's Printed Name	01/13/2020
Signature	Date of Approva Must be prior to exp			Signature	Date of Signature (mm/dd/yy) (May be after experimentation)
3. Final ISEF Affiliated SRC Approval After Experiment I certify that this project adheren	ntation and Before (Competition at R	egion	red for ALL Projects al/State/National Fair Summary and complies with	'
Regional SRC Chair's Printed N	lame	Signature			Date of Approval (mm/dd/yy)
					Data of Approval (mm/dd/\(\lambda\)

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

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

 To Be Completed by Student and Pare

- 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
 - I have read and will abide by the following Ethics statement

• Thave read and will ablue by		
are not condoned at any level of research	ntain the highest standards of honesty and in n or competition. Such practices include but a rk as one's own, and fabrication of data. Frau	re not limited to plagiarism, forgery, use
competition in affiliated fairs and ISEF.	^	97
Danielle Levanti	Danielle Levanti	02/01/2019
Student's Printed Name	Signature	Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)
b. Parent/Guardian Approval: I ha Research Plan/Project Summar	ve read and understand the risks and possib y. I consent to my child participating in this r	esearch.
1	Vingino Levant	02/01/2019
Virginia Levanti Parent/Guardian's Printed Name	Signature	Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)
2. To be completed by the local	or affiliated Fair SRC	propriate)

(Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate

BEFOR	ed for projects that need prior SRC/IRB approval E experimentation (humans, vertebrates or potentially		 Required for research conducted at all Regulated Research Institutions with no prior fair SRC/IRB approval.
hazardo	ous biological agents).	OR	
Project Sum signature inc	B has carefully studied this project's Research Plan/ Imary and all the required forms are included. My dicates approval of the Research Plan/Project Summary tudent begins experimentation.		This project was conducted at a regulated research institution (not home or high school, etc.), was reviewed and approved by the proper institutional board before experimentation and complies with the ISEF Rules. Attach (1C) and any required institutional approvals (e.g. IACUC, IRB).
SRC/IRB Ch	air's Printed Name		SRC Chair's Printed Name
Signature	Date of Approval (mm/dd/yy) (Must be prior to experimentation.)		Signature Date of Signature (mm/dd/yy) (May be after experimentation)

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

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