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) Cheryl Chang

Title of Project Suggesting possible functions of GABRB3 and establishing a connection between GABRB3 absence and the onset of Autism Spectrum Disorder

To be completed by Student Researcher:

1. Common name (or Genus, species) and number of animals used.
   Mus musculus

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.
   The mice were observed daily and fed food (in the form of pellets) and water continuously. 5 mice were maintained per cage (size 12in x 15in) and the bedding used was mulch.

3. What will happen to the animals after experimentation?
   The animals will be humanely disposed of according to established IACUC protocols.

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 Signature:

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

To be completed by Veterinarian:

- ☐ I have reviewed this research and animal husbandry with the student before the start of experimentation.
- ☐ I have approved the use and dosages of prescription drugs and/or nutritional supplements.
- ☐ I will provide veterinary medical and nursing care in case of illness or emergency. (Fees may apply.)

Printed Name	Email/Phone

Signature	Date of Approval (mm/dd/yy)

To be completed by Designated Supervisor or Qualified Scientist when applicable:

- ☑ I have reviewed this research and animal husbandry with the student before the start of experimentation and I accept primary responsibility for the care and handling of the animals in this project.
- ☑ I will directly supervise the experiment.

Printed Name	Email/Phone
Rachel Babij	rab2037@med.cornell.edu

Signature	Date of Approval (mm/dd/yy)
Rachel Babij	9/24/19

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) Cheryl Chang

Title of Project Suggesting possible function of GABBR3 and exploring a connection between GABBR3 absence and the onset of Autism spectrum disorder

Title and Protocol Number of IACUC Approved Project Mechanisms Underlying Activity - Dependent Interneuron Development; #: 2013-0122

To be completed by Qualified Scientist or Principal Investigator:

1. Species of animals used: Mus musculus Number of animals used: 11

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.)

   The student received stained slides from 11 animals (a combination of mutant and control animals). She then took images of two different brain regions on the confocal microscope, and analyzed these pictures for anatomical features. Together, we performed the data analysis and discussed results.

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.

   No.

4. Did the student's project also involve the use of tissues?
   - ☐ No
   - ☑ Yes; complete Forms 6A and 6B

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

   The student received Fire safety training (completed July 24, 2019) and HIPAA training (completed July 24, 2019). Because she was not involved in animal handling, tissue processing, or generation and use of reagents, she did not need to complete other training.

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

Rachel Babij

Printed Name

Rachel Babij Digitally signed by Rachel Babij Date: 2019.09.24 17:36:17 -04'00'

Signature

09/24/2019

Date (mm/dd/yy)