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| | OFFICIAL ADSTRACT BITG CERTIFICATION | | | |
|-----------|--|---|-----------------------------|--|
| ex Nic | odified acetylcholinesterase activity and protein modulation as a result of posure in D. tigrina: Preliminary Results Cholas Madoff, Cindy Hou | Category Pick one only- mark an "X" in box at right | | |
| Trin | ity, New York NY, USA | — Animal Sciences | | |
| | rpyrifos (CPS) is an organophosphate that since its registration in 1965, has both agriculture, being sprayed on crops, animals, golf courses, and buildings to kill insects. Six million po | Behavioral and Social Science | | |
| acro | ss 10 million acres of land, making it the most commonly used insecticide in the United Sta | Biochemistry | | |
| | aminate the air, water, and soil. This study aims to first determine if various doses of the pe oxic to planaria through LC50 assays. This study will also examine if CPS has a similar inh | ' | ✓ | |
| | aria as it does in other organisms by quantifying acetylcholinesterase activity levels using a | | | |
| if pla | naria exposed to CPS will have altered AChE protein levels by running a quantitative ELIS | t Computer Science | | |
| | exposure is toxic to planaria when acutely exposed to concentrations between .1 mg/ml at | | | |
| | between .05 mg/ml and .1 mg/ml when chronically exposed for 72 hours. We expect that wentrations of CPS will have decreased AChE activity levels, more notably at higher concen | Eng: Electrical & Mechanical | | |
| | sed planaria will increase their acetylcholinesterase protein levels in order to counteract lo E inhibition. | Eng: Materials & Bioengineering | | |
| | | | Energy & Transportation | |
| | | | Environmental Management | |
| | | | Environmental Sciences | |
| | | | Mathematical Sciences | |
| | | | Medicine and Health | |
| 1. | As a part of this research project, the student directly handled, manipulation with (check ALL that apply): | Microbiology Plant Sciences | | |
| | | ate. | Physics and Astronomy | |
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| | vertebrate animals microorganisms nDN | A tissue | | |
| 2. | This abstract describes only procedures performed by me/us, reflects my/our own independent research, and represents one year's work only | ⊠ Yes □ | No | |
| 3. | I/we worked or used equipment in a regulated research institution or industrial setting: | ☐ Yes 🔀 | No | |
| 4. | This project is a continuation of previous research. | ⊠ No | | |
| 5. | My display board includes non-published photographs/visual | | | |
| 6. | I/we hereby certify that the abstract and responses to the above statements are correct and properly reflect my/our own work. | | / | |
| an | is stamp or embossed seal attests that this project is in compliance of It state laws and regulations and that all appropriate reviews and appro Itained including the final clearance by the Scientific Review Committe | vals have been | | |

COMPLETING THE ABSTRACT:

Abstracts are limited to a maximum 250 words and must fit within the predefined area. Please be sure to consult the information from your affiliate fair for the proper formatting of the header information as fairs differ in what is required (or not allowed).

The abstract **should include the following**:

- a) purpose of the experiment
- b) procedure
- c) data
- d) conclusions

It may also include any possible research applications. Only minimal reference to previous work may be included. An abstract **must not include the following**:

- a) acknowledgments (including naming the research institution and/or mentor with which you were working), or self-promotions and external endorsements
- b) work or procedures done by the mentor

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A project abstract is a brief paragraph or two (limited to 250 words or 1,800 characters) highlighting and/ or summarizing the major points or most important ideas about your project. An abstract allows judges to quickly determine the nature and scope of a project.

- Emphasize these aspects: purpose (hypothesis), methods (procedures used), data summary or analysis, and conclusions.
- Focus only on the current year's research.
- Omit details and discussions.
- Use the past tense when describing what was done. However, where appropriate use active verbs rather than passive verbs.
- Use short sentences, but vary sentence structure.
- Use complete sentences. Don't abbreviate by omitting articles or other small words in order to save space.
- Avoid jargon and use appropriate scientific language.
- Use concise syntax, correct spelling, grammar, and punctuation.

AVOID A REWRITE

- Focus on what you did, not on the work of your mentor or of the laboratory in which you did your work.
- Do NOT include acknowledgements, self promotion or external endorsements. Don't name the research institution and/or mentor with which you were working and avoid mentioning awards or honors (including achieving a patent) in the body of the abstract.
- Be sure to emphasize the current year's research. A continuation project should only make a brief mention of previous years' research (no more than a sentence or two).