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Primary Student	James Zheng (jameszheng405@gmail.com)
School	Garden City High School
Adult Sponsor	Steven Gordon
Number of Students	1
Category	Behavioral and Social Sciences - Neuroscience
Project Title	<div><div>▼</div><div>Microbiome Composition and Environmental pH Modulate the Behavioral Effects of SSRIs in Larval Zebrafish (<i>Danio rerio</i>)</div></div>
Project Abstract	<div><div>▼</div><div>most commonly prescribed class of drugs used to treat MDD. However, despite their widespread use, the exact effects of SSRIs on the brain are unknown, and treatment efficacy varies widely between individuals. Recent studies have begun to highlight how the gut microbiome affects mental health, and it has been linked to various mental illnesses, including MDD. This investigation's objective was to study how microbiome composition influences the effect of sertraline (a common SSRI) on larval zebrafish behavior. Zebrafish embryos with reduced microbiomes</div></div>
Project Involves	Hazardous Chemicals, Activities or Devices
Prior Competitions Entered	Regeneron STS

Required ISEF Forms	Form 1, Form 1A, Form 1B
Additional ISEF Forms	Form 1C, Form 3
Requires a Qualified Scientist?	Yes
Requires a Designated Supervisor?	Yes
Certify ISEF wizard was used	12/02/2019 01:54 am
I agree to the LISEF Ethics Statement	12/02/2019 01:54 am
Registration Completed	12/02/2019 01:55 am
Certified	12/04/2019 07:30 am

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