



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 6 - 18, 2023

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

### Final Judging Results

#### Award Legend

Plaque Winners = 1, 2, ...  
Medalists = m  
Winners = w

## Biotechnology Awards

[SchTown] [School] [Teacher]  
[Proj#] [FCat] [Project Title]

### 7th Grade

2019 L7 Do human and dog saliva have special antibacterial properties and help heal wounds?

Award 1 Student(s) Anna Aslan Grade 7 Town Hamden

- \* Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

2023 L7 Impact of Contaminants of Emerging Concern on Bean Seed Germination and Growth

Award 2 Student(s) Addison Cadmus Grade 7 Town Pawcatuck

- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$200 & trophy
- \* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

2020 L7 The Power of Your Produce!

Award 3 Student(s) Nadia Khan Grade 7 Town Wilton

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy

2011 L7 effects of inhaling Peppermint aroma on reaction time

Award 4 Student(s) Piper Twedt Grade 7 Town Norwalk

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 7th grade- \$200 & trophy
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

2004 L7 Finding the most effective solutions to kill germs and bacteria on door knobs using natural substances (lemon juice, cold/hot/room temperature tap water, saltwater).

Award 5 Student(s) Sahithi Alla Grade 7 Town Milford

- \* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy

2017 L7 Soil Stability-

Award m Student(s) Claire Calomeni Grade 7 Town danbury

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF



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## Biotechnology Awards

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Project Title]

1001	LT	The Self Sustaining Fish Tank			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Noah Bohonowicz	Grade 7	Somers	
		Michael Bielanski	Grade 7	Enfield	
		Mason Crkanowicz	Grade 7	Suffield	

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

1013	LT	Amazing Ants.			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Noah Gendreau	Grade 7	Lebanon	
		Dylan Ghezzi	Grade 7	Manchester	

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

2015	L7	The Eggstastic Egg Experiment			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Mallory Bohrer	Grade 7	Shelton	

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

1010	LT	How Different Liquids Affect the Growth of Plants			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Sofia Pagano	Grade 7	Stratford	
		Sara Gnoza	Grade 7	Stratford	

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

## 8th Grade

2511	L8	Simple, Rapid Detection of Early Maturity-Onset Diabetes of the Young (MODY) via Random-C-Peptide Biomarkers			
<b>Award</b>	<b>1</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Lula Wang	Grade 8	OLD GREENWICH	

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- \* Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$300 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners



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## Biotechnology Awards

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[Proj#] [FCat] [Project Title]

2534 L8 Design and Implementation of a Novel Machine-Learning-Based System Utilizing Feature Extraction for Precise Cervical Cancer Detection via Biopsy Sample

**Award** 2 **Student(s)** Ethan Joseph **Grade** 8 **Town** West Haven

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$300, Trophy
- \* Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

2525 L8 Preventing Hypoxia using Magnetism

**Award** 3 **Student(s)** Anshika Saagi **Grade** 8 **Town** Wilton

- \* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 8th grade- trophy
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- \* Aquarion Water Company --- 2nd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

2509 L8 Investigating The Effectiveness Of Biochar In Remediating Soil Contamination by Heavy Metals and Hydrocarbons.

**Award** 4 **Student(s)** Sahithi Aliminate **Grade** 8 **Town** Milford

- \* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy



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 [Proj#] [FCat] [Project Title]

2508 L8 Wavelength-Specific Illumination of Hydroponic Growth Systems, for Increased Crop Production  
 Award 5 Student(s) Kate Wick Grade 8 Town Greenwich, CT

- \* Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy
- \* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- \* Connecticut Science Supervisors Association --- \$125 for a middle school project

1002 LT Promoting Outdoors Safety By Altering Pregnancy Tests to Detect Urushiol  
 Award m Student(s) Alice Tran Grade 8 Town Danbury  
 Vianca Villacres Grade 8 Town Danbury  
 Thomas Lazo Grade 8 Town Danbury

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences MS Team- trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place Middle School - Trophy, Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

1021 LT Which plant is more efficient at reducing carbon dioxide from the air, through photosynthesis?  
 Award m Student(s) Madeline Agrafojo Grade 8 Town Suffield  
 Anna Burnham Grade 8 Town Suffield

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences MS Team- \$150 each & trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

2503 L8 Enhancement of Sleep Cycle Circadian Rhythms via the Introduction of Ambient Sounds  
 Award m Student(s) Rachel Goldenberg Grade 8 Town Greenwich

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* Bushnell Center for Performing Arts --- Pair of Tickets to Monterey Jazz Festival on tour for top project that is music-related

2514 L8 Use of Simple, Home-Remedy Cleansers to Selectively Inhibit Harmful Bacteria on Classroom Surfaces  
 Award m Student(s) Amaya Khwaja-Patel Grade 8 Town Greenwich

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project



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2502 L8 The Effect of Ocean Acidification on Coral Reef Growth  
 Award m Student(s) Adithi Variar Grade 8 Town Wallingford

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- \* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior

## High School

6064 PS A Self-Stabilizing Haptic Accessibility Mouse for Parkinson's Disease Sufferers  
 Award 1 Student(s) Jingyuan Zhang Grade 10 Town Wallingford

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- \* Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7,500 per year) to Quinnipiac University for HS Student
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$500 & plaque
- \* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250
- \* IEEE, Connecticut Section --- \$250 Honors Award – Senior
- \* Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High

3038 LS Utilization of Decellularized Spinach as a Vascular Perfusion System for Organoid Development  
 Award 2 Student(s) Avery Horn Grade 12 Town Darien

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque

3010 LS Identification of Therapeutics for Neurological Disorders through Development of a Novel Machine Learning System for Predicting Drug-Gene Interactions in the Glymphatic System  
 Award 3 Student(s) Ashley Malkin Grade 10 Town Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences Senior High- Plaque
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque



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[Proj#] [FCat] [Project Title]

3019 LS The Isolation And Identification Of Polystrene Degrading Bacteria From Zophobas Morio  
Award 4 Student(s) Paris Bazemore Grade 12 Town manchester

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology Senior High - plaque
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

3048 LS Knockdown of the essential 23S rRNA methyltransferase, rv3579c, increases the susceptibility of Mycobacterium tuberculosis to macrolides  
Award 5 Student(s) Yuriy Sandmeier Grade 12 Town New Rochelle

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque
- \* Regeneron Biomedical Science Award --- Certificate & \$375.00 cash
- \* Biophysical Society --- Biophysics Award- \$100

6028 PS Development of an Efficient and Easily-Applicable Low-Energy Process for the Degradation of PFAS  
Award m Student(s) Zara Haque Grade 10 Town Riverside

- \* EnergizeCT Future Sustainability Awards --- 1st Place High School - Plaque & \$700 Stipend to Compete at GENIUS Olympiad
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

3118 LS Development of a Rapid Alzheimer's Disease Diagnostic through Multilayered, Comprehensive Statistical Analyses of Speech.  
Award m Student(s) Maximillian Lu Grade 11 Town Riverside

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

3058 LS Impact of Chitosan Polysaccharide (From Chitin) on Intestinal Health  
Award m Student(s) Sophia Vash Grade 9 Town Fairfield CT

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion



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 [Proj#] [FCat] [Project Title]

3013 LS Spectrophotometric Determination of the Total Polysaccharide Content of Ganoderma Lucidum Grown Under Different Conditions.

Award m Student(s) Sylvia Squatrito Grade 12 Town Manchester

\* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

3002 LS Classify Liver cancer using Uncertainty-aware CNN

Award m Student(s) Qiwu Jiang Grade 11 Town Windsor

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

\* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

\* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)