



Connecticut Science & Engineering Fair

Quinnipiac University

March 7 - 19, 2022

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Final Judging Results

Award Legend

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

Biotechnology Awards

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

7th Grade

1003 LT Comparing Kale Growth In Hydroponics Versus Potting Soil In Winter

Award 1 **Student(s)** Carys Wilson **Grade 7** **Town** Somers
Delphine Lamattina **Grade 7** **Town** West Hartford

- * PepsiCo Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 and Plaque
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade - \$300 & Plaque
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2019 L7 How Ocean Acidification Affects Shelled Marine Life

Award 2 **Student(s)** Rhea Doshi **Grade 7** **Town** Farmington

- * PepsiCo Life Sciences Awards --- 2nd Place- Life Sciences 7th grade - \$100 & Plaque
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300 and Plaque
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade - \$200 & Plaque
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

2010 L7 Mealybug Management 101
A Study of Household Plant Pest Treatment Options

Award 3 **Student(s)** Avni Manish **Grade 7** **Town** Newington

- * PepsiCo Life Sciences Awards --- 4th Place- Life Sciences 7th grade - Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place Middle School - Plaque, Medallion
- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade - \$100 & Plaque

1016 LT Improving Composting During the Winter Months

Award 4 **Student(s)** Delaine Pappas **Grade 7** **Town** Enfield
Sabrina Plaz **Grade 7** **Town** Suffield
Madeline Agrafojo **Grade 7** **Town** Suffield

- * PepsiCo Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade - Plaque



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2012 L7 American Juvenile Horseshoe Crab Aquaculture
Award 5 Student(s) Gianna Giovanelli Grade 7 Town Westerly

- * PepsiCo Life Sciences Awards --- 3rd Place- Life Sciences 7th grade - \$100 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade - Plaque
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * Southeastern New England Marine Educators (SEMEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior

2003 L7 Amounts of bacteria on Organic and Non-Organic fruits and vegetables
Award m Student(s) Ilana Mezheritskiy Grade 7 Town Avon

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

1001 LT Do Essential Oils Promote the Growth of Yeast Cells?
Award m Student(s) John Donnelly Grade 7 Town Suffield
John Pereira IV Grade 7 Town Enfield

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

2016 L7 Are You "Bready" For Some Mold?
Award m Student(s) Maria Victoria Triantafyllos Grade 7 Town Stamford

- * PepsiCo Life Sciences Awards --- 5rd Place- Life Sciences 7th grade - Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

1009 LT Best Plants For Short Term Growth
Award m Student(s) Elliot Nerenberg Grade 7 Town Stamford
Sheldon Heyman Grade 7 Town Westport

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

2014 L7 How Do Small Amounts of Sodium Chloride Affect the Growth of Brassica Rapa (Mustard Plants)
Award m Student(s) Joshua Schwartz Grade 7 Town Stamford

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF



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8th Grade

2515 L8 The RightSwitch: An Automatic Light Switch Sterilization Device

Award 1 Student(s) Samuel Wu Grade 8 Town Avon

- * PepsiCo Life Sciences Awards --- 1st Place- Life Sciences 8th grade - \$300 & Plaque
- * EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$300 and Plaque
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade - \$300 & Plaque
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5514 P8 Model System Design For Technology-Assisted Insulin Regulation

Award 2 Student(s) Sydney Borst Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences 8th Grade Ind, - \$100 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade - \$200 & Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project with \$700 stipend
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

4010 PT Determining the Most Efficient and Effective Method of Filtration for the Purpose of Creating Potable Water

Award 3 Student(s) Rhys Wilson Grade 8 Town Somers
 Oliver Kolb Grade 8 Town Longmeadow
 Jacek Cieslak Grade 8 Town Monson

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade - \$100 & Plaque

2512 L8 Rapid Screening for Hypertrophic Cardiomyopathy in Athletes

Award 4 Student(s) Bodhan Chiravuri Grade 8 Town Bridgeport

- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place Middle School - \$200, Plaque
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade - Plaque



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4013 PT Benefit of Granular and Mesh Filters on Concentrations of Microplastics in Water

Award 5 **Student(s)** Krrish Brahmshatriya **Grade** 8 **Town** Danbury
 Benjamin Miller **Grade** 8 **Town** Danbury
 Alexander Herzegovitch **Grade** 8 **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences MS Team - Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade - Plaque
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

5504 P8 Electrolyte Challenge

Award m **Student(s)** Hailey Greasley **Grade** 8 **Town** Naugatuck

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

5510 P8 The Effects of Ice Mitigation Strategies on Livestock Waterers

Award m **Student(s)** Sophia Blumenreich **Grade** 8 **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 2nd Place - Physical Sciences 8th Grade Ind. - \$200 & Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * J.A. Augustine Award --- \$100 for excellence in physical sciences
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

1014 LT Sodium Bicarbonate as a Cost Effective Method for Raising the pH of Soil

Award m **Student(s)** Lainey Czerwiec **Grade** 8 **Town** Feeding Hills
 Olivia Keise **Grade** 8 **Town** South Windsor
 Bridget Kelly **Grade** 8 **Town** Enfield

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF



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1002 LT Optimum Composting For *Eisenia fetida*

Award **m** Student(s) Sage Pierce Grade 8 Town Enfield
Catherine Wilcox Grade 8 Town Enfield

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies

5515 P8 iAAA band (Impact-absorbing and alerting band)

Award **m** Student(s) Ravindu Karunaratne Grade 8 Town Hamden

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

High School

3117 LS Development of a Home N-Terminal Pro-Brain Natriuretic Peptide Assay for the Diagnosis of Congestive Heart Failure.

Award **1** Student(s) Maya Chiravuri Grade 11 Town Bridgeport

- * PepsiCo Life Sciences Awards --- 3rd Place- Life Sciences Senior High - \$200 & Plaque
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High - \$500 & Plaque
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

3030 LS Design of a Novel, Dual-Functioning Tissue Plasminogen Activator and Anticoagulant Therapeutic for Rapid Ischemic Stroke Treatment

Award **2** Student(s) Ambika Grover Grade 11 Town Riverside

- * PepsiCo Life Sciences Awards --- 1st Place- Life Sciences Senior High - \$500 & Plaque
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering 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 --- 2nd Place- Biotechnology Senior High - \$300 & Plaque
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF



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3025 LS Rapid, Visual Detection of Benadryl Cocktails via Competitive, Amine-Responsive Fluorophores
Award 3 **Student(s)** Angelina Fogarty **Grade** 11 **Town** old greenwich

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High - \$300 & Plaque
- * Connecticut Science Supervisors Association --- \$125 for a high school project

3091 LS Development of Readily Accessible Machine Learning Diagnostics for Early Stage Mild TBI using Eye Tracking Methods
Award 4 **Student(s)** Ashley Malkin **Grade** 9 **Town** Greenwich

- * PepsiCo Life Sciences Awards --- 5th Place- Life Sciences Senior High - Plaque
- * Computer Science Awards --- 1st Place High School - \$400, Plaque
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High - Plaque

3063 LS Design of a Wearable, Skin-Specific UVB Sensor for Instantaneous Detection of Skin-Damaging Radiation
Award 5 **Student(s)** Yurika Sakai **Grade** 11 **Town** Greenwich

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High - Plaque
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Life Sciences scholarship
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

3107 LS Inhibition of Covid-19 Induced Cell Inflammation via R-954 B1R Antagonist Disruption of the Bradykinin Storm
Award m **Student(s)** Ella Moore **Grade** 12 **Town** Greenwich

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

3096 LS Drosophila melanogaster locomotion, myonuclei size, and myonuclei position are affected by differential gene expression
Award m **Student(s)** Giovanna Armetta **Grade** 12 **Town** Stamford

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

3071 LS The essential 23S rRNA methyltransferase rv3579c confers intrinsic macrolide resistance in Mycobacterium tuberculosis
Award m **Student(s)** Yuriy Sandmeier **Grade** 11 **Town** New Rochelle

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



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3101 LS A clinicogenomic prediction model for the early diagnosis of lung cancer

Award m Student(s) Isabella Wu Grade 10 Town Stony Brook

- * PepsiCo Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Computer Science Awards --- 2nd Place High School - \$300, Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

6066 PS Using an Artificial Neural Network Modelled After the Human Neocortex to Gain a Better Understanding of How the Neocortex Creates New Ideas

Award m Student(s) Annika Yun Grade 10 Town Orange

- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion