



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 8 - 20, 2021

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## Final Judging Results

### Award Legend

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

## Alexion Biotechnology Awards

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

### 7th Grade

1006 LT Studying Four Climate Change Factors that Impact Plant Growth

Award 1 Student(s) David Isaacs Grade 7 Town Stamford  
Gabriel Haron Grade 7 Town Stamford

- \* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & plaque
- \* Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and plaque
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & plaque
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS for 1st - 4th MS winners

1003 LT The Effect of Pollutants on Brine Shrimp [Artemia salina] Hatching

Award 2 Student(s) Asher Marcus Grade 7 Town Westport  
Eddie Janush Grade 7 Town Stamford

- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & plaque

4005 PT Self-Sustaining Indoor Garden

Award 3 Student(s) Noora Khaled Grade 7 Town Suffield  
Bayan Abed Grade 7 Town Rocky Hill  
Zainah Khaliq Grade 7 Town Windsor

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & plaque
- \* Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and plaque
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & plaque

2007 L7 The Effect of Bee Box Volume Size on Temperature and Humidity of a Wintering Bee Hive.

Award 4 Student(s) Luca LaRosa Grade 7 Town Danbury

- \* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place Middle School - \$100 and plaque, Medallion
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- plaque
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- \* National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5012 P7 Metal Hardening: Heating, Hammering and Holding Atoms Together

Award 5 Student(s) Alexander Campbell Grade 7 Town Coventry

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



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5014 P7 Tennis Ball Disinfectant  
Award m Student(s) Sia Reddy Grade 7 Town Avon

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & plaque
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for MS Student & \$250 cash
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$100 cash
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2004 L7 How efficient is aquaponics compared to traditional soil-based farming?  
Award m Student(s) Sarah Martin Grade 7 Town Bozrah

- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / plaque
- \* Future Sustainability Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- \* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- \* National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100

5005 P7 Separation of Food Dyes Via Column Chromatography  
Award m Student(s) Adwitha Gadachanda Grade 7 Town Cheshire

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science

2011 L7 The Effect of UV Light on Bacteria From a Horse Blt  
Award m Student(s) Sophia Blumenreich Grade 7 Town Danbury

- \* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2005 L7 The effects of a clinostat on Garden Cress  
Award m Student(s) Zachariah Colon Grade 7 Town Danbury

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



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### 8th Grade

1004 LT Agricultural Plants reaction to Climate Change

Award 1 Student(s) Maya Serrano Grade 8 Town Somers  
Joella Asapokhai Grade 8 Town South Windsor  
Alexandria Croal Grade 8 Town Enfield

- \* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & plaque
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2503 L8 Circadian Rhythms with Manduca Sexta Caterpillars

Award 2 Student(s) Soleil Asano Grade 8 Town Torrington

- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & plaque

2512 L8 Role Of Macronutrients (NPK) In Plant Growth and Development

Award 3 Student(s) Saisuhruth Choppakatta Grade 8 Town Ellington

- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & plaque

2514 L8 Light 'Em Up

Award 4 Student(s) Maris Chirayil Grade 8 Town Danbury

- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- plaque

5511 P8 The Effects of Concentrations of Acetone on the Tensile Strength of Bioplastics

Award 5 Student(s) Eric Guo Grade 8 Town Danbury

- \* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Collins Aerospace Engineering Awards --- 3rd Place- Engineering MS \$100 & plaque
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- plaque
- \* ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- \* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF



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[Proj#] [FCat] [Project Title]

2509 L8 The Use of "Essential Oils" as Punishing Stimuli on Dubia Roaches  
Award m Student(s) Oliver Morrison Grade 8 Town Farmington

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

2520 L8 Heart Rate Recovery Time  
Award m Student(s) Tatiana Frouge Grade 8 Town Danbury

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

5504 P8 The Effect of an Insulator with Styrofoam on the Temperature Difference Between Two Pieces of Cardboard  
Award m Student(s) Christopher Tomas Borges Grade 8 Town Danbury

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion  
\* CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place Middle School - plaque, Medallion  
\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

2518 L8 Let's Get Scrubbing!  
Award m Student(s) Chaya'le Wilhelm Grade 8 Town Milford

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

2505 L8 Farmer's Market vs. Supermarket Vegetables: Who has Higher Nutrient Content?  
Award m Student(s) Emerson Baltrukonis Grade 8 Town Pawcatuck

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

2515 L8 Building and Testing a Simple Portable Constructed Wetland to Purify Greywater  
Award m Student(s) Tasneem Zoghol Grade 8 Town Enfield

\* Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion  
\* Future Sustainability Awards --- Middle School Finalist - Medallion  
\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion  
\* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science



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### High School

3037 LS Rapid, Noninvasive, Fluorescence-Based Detection for Elevated Levels of Nitric Oxide in Exhaled Breath, As a Marker for Hazardous PM2.5 Exposure

Award 1 Student(s) **Ambika Grover** Grade 10 Town Riverside

- \* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* 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 --- 1st Place- Biotechnology Senior High- \$500 & plaque
- \* Connecticut Science Supervisors Association --- \$125 for a high school project
- \* Susan Lessoff Award for Excellence In Chemistry --- Susan Lessoff Excellence In Chemistry Award -\$200 Cash and Plaque - High School
- \* Biophysical Society --- Biophysics Award- \$100
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

3085 LS Role of ICAM-1 in Facilitating Leukocyte Migration Across the Blood-Brain Barrier in the Progression of Multiple Sclerosis

Award 2 Student(s) **Prathit Kurup** Grade 11 Town Riverside

- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$300 & plaque
- \* University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000

3009 LS Exploring Earthworm Ecotypes: Carbon Source or Sink?

Award 3 Student(s) **Lillian Kane** Grade 12 Town Groton

- \* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* Future Sustainability Awards --- High School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate

3088 LS Feraheme® works synergistically with several ROS-inducing drugs for the treatment of pancreatic adenocarcinoma

Award 4 Student(s) **Wafa Nomani** Grade 12 Town STAMFORD

- \* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- plaque



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 [Proj#] [FCat] [Project Title]

3018 LS Linking Continued Exposure to E-cigarette Vapor Constituents with Chronic Obstructive Pulmonary Disease  
 Award 5 Student(s) Hannah Goldenberg Grade 12 Town Old Greenwich

- \* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- plaque

6071 PS Robotic Pancreatoduodenectomy (PD) vs. Open PD: A Meta-analysis-driven Algorithm to Enhance Surgical Decision Making  
 Award m Student(s) Ethan Zhang Grade 12 Town Darien

- \* Mathematics Awards - with ATOMIC --- 3rd Place High School - \$200 and Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

3061 LS The Role of Alternative Splicing in Metastatic Osteosarcoma  
 Award m Student(s) Sonia Ghoshal Grade 11 Town Glastonbury

- \* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

3043 LS The Effect of Applied Glucose on Moisture Retention and Growth of Saplings After Simulated Forest Fires.  
 Award m Student(s) Regina Finn Grade 11 Town Old Greenwich

- \* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

3032 LS The Effects of Bacillus and Trichoderma Inoculant and Lepidum Sativum on  
 Award m Student(s) Alexandra Hamza Grade 11 Town Manchester

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
- \* Future Sustainability Awards --- High School Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)

3028 LS The Biofilm Promoting Nature of Bacteriophages in In-Vitro Escherichia coli (E. coli) Biofilms  
 Award m Student(s) Aiden Tischer Grade 11 Town Bethany

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