



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 9 - 14, 2020

*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

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

## Alexion Biotechnology Awards

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

### 7th Grade

**West Haven** Engineering and Science University Magnet School Roger Rushworth

2007 L7 Effectiveness of the Organic Polymers for Removing Microplastic in an Aqueous Solution

Award 1 Student(s) Snigtha Mohanraj Grade 7 Town Ansonia

- \* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- \* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- 1st Place MS - \$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 --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest
- \* J.A. Augustine Award --- \$100 for excellence in biology
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- \* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
- \* Broadcom MASTERS --- The Lemelson Early Inventor Prize

**Avon** Talcott Mountain Academy Mr John Pellino

5007 P7 Dampening, Quantifying, and Recording Tremor

Award 2 Student(s) Ariana Pourkavoos Grade 7 Town Avon

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- \* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

**Farmington** Irving Robbins Middle School Nancy Stacy

5019 P7 Intelligent Rice Blast Disease Detector

Award 3 Student(s) Ann Song Grade 7 Town Farmington

- \* Applied Technology Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS



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## Alexion Biotechnology Awards

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 [Proj#] [FCat] [Project Title]

**Greenwich** Greenwich Academy Kristin Gannon  
 2018 L7 The Effects of Fertilizers on the Diversity and Density of Soil Microbes  
**Award** 4 **Student(s)** Ruby Montanez **Grade 7** **Town** Greenwich

- \* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS

**Stamford** Bi-Cultural Hebrew Academy Mr. Christopher Graseck  
 1010 LT "Sweet Seeds"  
**Award** 5 **Student(s)** Maddie Winarsky **Grade 7** **Town** Stamford  
 Sabrina Weisel **Grade 7** **Town** Stamford

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

**Bethel** Bethel Middle School Shellie Zancan  
 5025 P7 Biodegradable Trash Bag Test  
**Award** m **Student(s)** Emily Turek **Grade 7** **Town** Bethel

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

**Branford** CT Experiential Learning Center Middle School Melinda Alcosser  
 5005 P7 Let Them Eat Cake!  
**Award** m **Student(s)** Harper Reed **Grade 7** **Town** Guilford

- \* 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 Life Science

**Greenwich** Greenwich Catholic School Mrs. Carol Lutz  
 4038 PT Shades N' Rays  
**Award** m **Student(s)** Elle Brew **Grade 7** **Town** Greenwich  
 Kate Robinson **Grade 7** **Town** Stamford  
 Sofia Navarrete **Grade 7** **Town** Stamford

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

**New Haven** Celentano Magnet School Ashley Mulligan  
 2026 L7 Correlation Between Fertilizer Use and Grass Growth  
**Award** m **Student(s)** Nurializ Torres **Grade 7** **Town** New Haven

- \* PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion



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## Alexion Biotechnology Awards

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 [Proj#] [FCat] [Project Title]

**Windsor** Academy of Aerospace and Engineering Dr. Bellinger  
 4017 PT Factors influencing crystal growth.  
**Award** m **Student(s)** Laasya Chintapalli **Grade 7** **Town** Middletown  
 Saanvi Talanki **Grade 7** **Town** South Windsor

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

## 8th Grade

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2515 L8 The Effect of Habitat Loss on a Cockroaches Stress and Well Being  
**Award** 1 **Student(s)** Kaitlyn Salvatore **Grade 8** **Town** Danbury

- \* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- \* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2527 L8 Kombucha SCOBY Infused Hydrogels as a Natural Bandaid Stopping the Growth of Escherichia coli  
**Award** 2 **Student(s)** Ella Brown **Grade 8** **Town** Danbury

- \* PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

**Wilton** Middlebrook Middle School Debbie Mallozzi  
 5518 P8 Heart Safe  
**Award** 3 **Student(s)** Anup Pilla **Grade 8** **Town** Wilton

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS



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**Wilton** Middlebrook Middle School Ms. Garcia  
 1014 LT Effects of Fertilizer on Algae Growth  
**Award** 4 **Student(s)** Illeas Paschalidis **Grade 8** **Town** Wilton  
 Shawn Gregory **Grade 8** **Town** Wilton

- \* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2502 L8 Tumor Suppression of Agrobacterium tumefaciens in Daucus carota  
**Award** 5 **Student(s)** Maria Eduarda Sousa **Grade 8** **Town** Danbury

- \* PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- \* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy

**Danbury** St. Gregory the Great School Christine Fahey  
 2518 L8 The Effect of Vinegar on Plants' Resistance to Drought  
**Award** m **Student(s)** Tyler Fahey **Grade 8** **Town** Danbury

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

**Hartford** Environmental Sciences Magnet School Mrs. Hays  
 5548 P8 Microplastic Mania  
**Award** m **Student(s)** Ava Hamilton **Grade 8** **Town** Hartford

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

**Trumbull** Christian Heritage School Daniel Cote  
 5525 P8 Relationship between Viscosity and Saturated Fat in cooking oils  
**Award** m **Student(s)** Sofia Khan **Grade 8** **Town** Stratford

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

**Washington** Rumsey Hall Liz Butler  
 2512 L8 A Heart Rate Monitor to Predict Autistic Meltdowns  
**Award** m **Student(s)** Junting Wang **Grade 8** **Town** Washington Depot

- \* PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy
- \* Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Robotics And Beyond --- Middle School- For excellence in engineering design; \$200 toward Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp. Certificate.



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**Windsor** Madina Academy Timothy Coleman  
 2503 L8 The Effects of Three Macro-nutrients on the Reaction Time of Human Subjects.  
**Award** m **Student(s)** Ismael Shelbaya **Grade** 8 **Town** South Windsor

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion  
 \* Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100

## High School

**Manchester** East Catholic High School Lesa Milas  
 6093 PS Biomimicry of Woodpecker Anatomy to Improve Helmet Design in Prevention of Chronic Traumatic Encephalopathy  
**Award** 1 **Student(s)** John Oei **Grade** 11 **Town** Hebron

\* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- \$500 & plaque  
 \* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF  
 \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)  
 \* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

**Darien** Darien High School Mrs. Leventhal  
 3124 LS Dual Targeting of ARK5 and CDK4 to Induce Cell Death in Triple-Negative Breast Cancer  
**Award** 2 **Student(s)** Shriya Desai **Grade** 12 **Town** Darien

\* Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$300 & plaque

**Greenwich** Greenwich High School Andrew Bramante  
 3050 LS Early Diagnosis of Pancreatic Cancer via Urinary Biomarkers with a New, Rapid, and Simple Lateral Flow Assay  
**Award** 3 **Student(s)** Ana-Florina Galic **Grade** 10 **Town** Riverside

\* Collins Aerospace Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,  
 \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque  
 \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

**Greenwich** Greenwich High School Andrew Bramante  
 3098 LS Smartphone Detection of Cardiovascular Disease using Retinal Features of Fundus Photography  
**Award** 4 **Student(s)** Ella Moore **Grade** 10 **Town** Greenwich

\* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- plaque

**Greenwich** Greenwich High School Mr. Andrew Bramante  
 3120 LS Design of a Lateral-Flow, Species-specific Rapid Diagnostic Test for Malaria  
**Award** 5 **Student(s)** John Trudeau **Grade** 10 **Town** Greenwich

\* PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque  
 \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- plaque



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**Greenwich** Greenwich Academy Dr. Monica Ortiz

3016 LS Using Artificial Intelligence to Uncover the Connection between RNA Gene Expression and Cancer

**Award** m **Student(s)** Natalie Shell **Grade** 10 **Town** Greenwich

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* CT Technology Council / CT Center for Advanced Technology Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation by a female project

**Greenwich** Greenwich High School Andrew Bramante

3094 LS Carbon Nanowire Lab-on-Chip as a Rapid, Inexpensive, Lyme Disease Detection System

**Award** m **Student(s)** Sofia Pronina **Grade** 11 **Town** Greenwich

- \* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Applied Technology Awards --- Senior High Finalist - Medallion
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Biophysical Society --- Biophysics Award- \$100

**Stamford** King School Victoria Schulman

3041 LS Classifying Subtypes of Renal Cell Carcinoma

**Award** m **Student(s)** Ryan Heaton **Grade** 11 **Town** Pound Ridge

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

**Stamford** King School Victoria Schulman

3057 LS Antimicrobial Peptides and Antibiotics Have Bactericidal and Bacteriostatic Effects on Wild-Type E. coli

**Award** m **Student(s)** Joseph Winterlich **Grade** 11 **Town** Stamford

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

**Woodbridge** Amity Regional High School Catherine Piscitelli

3090 LS Optimizing THP-1 Differentiation to Analyze the Role of CFTR deficiency on THP-1 Macrophage Polarization to Establish a Model System

**Award** m **Student(s)** Siavash Raissi **Grade** 12 **Town** Woodbridge

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