



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 12 - 17, 2018

*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

**New Haven** Worthington Hooker Middle School Mr. Jones

2010 L7 Underwater Battle: The Effect of Pollution on Brine Shrimp

**Award** 1 **Student(s)** Athena Brown **Grade** 7 **Town** New Haven

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- \* Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

**West Hartford** St. Timothy Middle School Danielle Locke

5002 P7 Pineapple Punch

**Award** 2 **Student(s)** Thomas Baldini **Grade** 7 **Town** West Hartford

- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS

**Danbury** St. Gregory the Great School Christine Fahey

5034 P7 The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells

**Award** 3 **Student(s)** Max Coisman **Grade** 7 **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Future Sustainability Awards - Eversource /energizeCT --- 1st Place Middle School - \$300 Cash and Trophy
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- \* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum

**Bozrah** Fields Memorial School Mrs. E Brown

2024 L7 Do different species of tree's growth patterns vary when looking at their growth rings?

**Award** 4 **Student(s)** Norah Tracy **Grade** 7 **Town** Bozrah

- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- \* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- \* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- \* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- \* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash



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[Proj#] [FCat] [Project Title]

**Windsor** Madina Academy Zaide Ibic

2009 L7 An Easy and Economic Way of Filtering Salt Water

**Award** 5 **Student(s)** Abdulmalik Ajdinowski **Grade 7** **Town** Windsor Locks

- \* Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

**bridgeport** Park City Prep Charter School Mrs.Boudreau

2028 L7 The Force To Seperate

**Award** m **Student(s)** Jeremiah Hernandez **Grade 7** **Town** Bridgeport

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

**Greenwich** Greenwich Catholic School Mrs. Lutz

4005 PT Creamalicious

**Award** m **Student(s)** Sofia Caracciolo **Grade 7** **Town** Stamford  
Morgan Adamson **Grade 7** **Town** Stamford  
Maria Profili **Grade 7** **Town** Greenwich

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

**Hartford** Environmental Sciences Magnet School at Mary Mrs. Hays

2022 L7 Memorizing With Music

**Award** m **Student(s)** Maria Amisano **Grade 7** **Town** East Granby

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF

**Hartford** Environmental Sciences Magnet School at Mary Mrs. Hays

2005 L7 It's Brine Time: A Study of How Salinity Affects the Hatching Rate of Brine Shrimp

**Award** m **Student(s)** Brianna Sanchez **Grade 7** **Town** Enfield

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

**Stamford** Bi-Cultural Day School Christopher Graseck

1005 LT Studying The Impact Of Acid Rain And Gutter Water On The Growth Of Three Plants

**Award** m **Student(s)** Zachary Isaacs **Grade 7** **Town** Stamford  
David Klein **Grade 7** **Town** Stamford

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete 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]

### 8th Grade

**Danbury** Westside Middle School Academy Jonathon Neuhausel

5527 P8 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff

**Award** 1 **Student(s)** Paloma Lenz **Grade** 8 **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- \* UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- \* Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

**Avon** Talcott Mountain Academy Lydia Gibb

2516 L8 Got Your Back

**Award** 2 **Student(s)** Emma Ruccio **Grade** 8 **Town** Southington

- \* UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy and Invitation Compete in Broadcom MASTERS
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- \* Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF
- \* Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- Middle School- For Excellence in Engineering Design- \$200 for for Robotics And Beyond STEM Design Academy in July

**Avon** Talcott Mountain Academy Dr. Brigette Zacharczenko

2505 L8 Development of rapid test for Lyme bacteria in ticks

**Award** 3 **Student(s)** Julian Kage **Grade** 8 **Town** Glastonbury

- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS

**West Hartford** St. Timothy Middle School Danielle Locke

2528 L8 Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass

**Award** 4 **Student(s)** Grace Flynn **Grade** 8 **Town** West Hartford

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- \* **The Karen J. Howell Middle School Award for "Learning and Serving"** --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000



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 [Proj#] [FCat] [Project Title]

**Danbury** St. Joseph School Mrs. Reilly  
 2512 L8 Stunted Growth: How Do Cell phones Affect Plant Growth and Can Certain Materials Prevent It?  
**Award** 5 **Student(s)** Bronwyn Hyland **Grade** 8 **Town** New Fairfield

- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- \* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- \* Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project

**Bethany** Amity Reg Middle School - Bethany Campus Kevin Berean  
 5556 P8 3D Printed Dog Prosthetic  
**Award** m **Student(s)** Karli Scianna **Grade** 8 **Town** Woodbridge

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Cheshire** St. Bridget School Mrs. Carroll  
 2537 L8 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup  
**Award** m **Student(s)** Kavin Kathir **Grade** 8 **Town** Cheshire

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* 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 Amazon gift card given by CSEF
- \* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- \* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2530 L8 How does Bacteriophage Phi x 174 affect with E. coli differently than Bacteriophage MS2?  
**Award** m **Student(s)** Stephanie Queiroz **Grade** 8 **Town** Danbury

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

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2504 L8 A Study on Angiosperm Xylem Based Sucrose Filtration Systems  
**Award** m **Student(s)** Vincent Trombetta **Grade** 8 **Town** Danbury

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion



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## Alexion Biotechnology Awards

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[Proj#] [FCat] [Project Title]

**Greens Farms** Greens Farms Academy Modupe Oshin  
2534 L8 The Effect of Bacteriophage on E.coli Bacteria

**Award** m **Student(s)** Kavya Krishnamurthy **Grade** 8 **Town** Westport

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

## High School

**Greenwich** Greenwich High School Andrew Bramante  
3057 LS Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles

**Award** 1 **Student(s)** Shobhita Sundaram **Grade** 12 **Town** Greenwich

\* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque  
\* Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,

**Greenwich** Greenwich High School Andrew Bramante  
3042 LS Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels

**Award** 2 **Student(s)** Emily Philippides **Grade** 12 **Town** Greenwich

\* Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF  
\* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- 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- \$500 & plaque

**Greenwich** Greenwich High School Andrew Bramante  
3035 LS Autonomously Killing Cancerous Cells by the Detection of up to Single Nucleotide Mutations

**Award** 3 **Student(s)** Collin Marino **Grade** 11 **Town** Greenwich

\* Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque  
\* The Jackson Laboratory --- \$1,000 - The Jackson Laboratory Award for Excellence in Genomics Related Research

**Greenwich** Greenwich High School Andrew Bramante  
3060 LS Non-Invasive Colorimetric Biosensor for Early Diagnosis of Prostate Cancer Through DNA-Mediated MicroRNA Detection

**Award** 4 **Student(s)** Rahul Subramaniam **Grade** 11 **Town** Cos Cob

\* Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque  
\* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF



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[Proj#] [FCat] [Project Title]

**Greenwich** Greenwich High School Andrew Bramante

3064 LS Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm *Sakaiensis* Bacteria

**Award** 5 **Student(s)** Bennett Hawley **Grade** 11 **Town** Cos Cob

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- \* University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- \* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- \* Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3036 LS Development of a Mucin Based Biomedical Adhesive Gel

**Award** m **Student(s)** Brian Duffy **Grade** 12 **Town** Fairfield

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Otero Family Award --- The Otero Family Award; \$200 cash
- \* Biophysical Society --- Biophysics Award- \$100
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

**Greenwich** Greenwich High School Andrew Bramante

3095 LS Ultrasensitive, Lab-on-a-Chip Detection of HIV via a Fluorescence-based, Europium-Doped Silica Nanoparticle Immunoassay

**Award** m **Student(s)** Joe Konno **Grade** 11 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

**Greenwich** Greenwich High School Andrew Bramante

3070 LS Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation

**Award** m **Student(s)** Dante Minichetti **Grade** 12 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion



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[Proj#] [FCat] [Project Title]

**Greenwich** Greenwich High School Mr. Bramante

3075 LS Design and Fabrication of a Smart, Medicated Gel Bandage to Deliver Antibiotics to a Draining Wound

**Award** m **Student(s)** Romano Orlando **Grade** 12 **Town** Greenwich

- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- \* Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

**Greenwich** Greenwich High School Mr. Bramante

6058 PS Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes

**Award** m **Student(s)** Nicholas Woo **Grade** 11 **Town** Greenwich

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- \* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Senior