



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 10 - 14, 2015

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## 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

**Plantsville** J.F. Kennedy Middle School Mrs.Pepin

2010 L7 "Pore" My Way to Cleaner Water: The use of flocculants and porous ceramic pots for purifying drinking water in developing countries

**Award** 1 **Student(s)** Matthew Maciejewski **Grade** 7 **Town** Plantsville

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- Energize CT/eesmarts Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash

**Avon** Talcott Mountain Academy Alyson Tockstein

2039 L7 Novel Bioluminescent Display using Aliivibrio fischeri for efficiency and low cost

**Award** 2 **Student(s)** Yusuf Zaidi **Grade** 7 **Town** Avon

- Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy

**Orange** Southern CT Hebrew Academy Karen Howell

1008 LT Analysis of Moisture and Retention of Body Lotions and Correlation to Microbial Growth

**Award** 3 **Student(s)** Sarah Yaffe **Grade** 7 **Town** Madison  
Mindel Yaffe **Grade** 7 **Town** Madison

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy

**New Haven** Worthington Hooker Middle School Douglas Jones

2001 L7 The Effects of Wi-fi on Plant Growth

**Award** 4 **Student(s)** Michael Bencivengo **Grade** 7 **Town** New Haven

- Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy



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 [Proj#] [FCat] [Project Title]

**Plantsville** J.F. Kennedy Middle School Pamela Pepin

1020 LT Got White?-Which toothpaste will whiten the best on stained limestone tiles?

**Award** 5 **Student(s)** Tara Brock **Grade 7** **Town** Southington  
 Hannah Sousa **Grade 7** **Town** Southington

● Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

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

1004 LT Vitamin H2Grow

**Award** m **Student(s)** Kieran Doolabh **Grade 7** **Town** Danbury  
 Hunter Swaylik **Grade 7** **Town** Woodbury  
 Brendan Walsh **Grade 7** **Town** Danbury

● Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir

**Danbury** Westside Middle School Academy Jonathan Neuhausel

5037 P7 Using Different Plant Xylem to Filter Phosphates

**Award** m **Student(s)** Anjeli Joseph **Grade 7** **Town** Danbury

● Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir

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

1017 LT The Impact of Acidic Water on Germinating Mung Beans.

**Award** m **Student(s)** Jordana Raich **Grade 7** **Town** Stamford  
 Tilly Chamberlain **Grade 7** **Town** Stamford

● Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir

**Windsor** Madina Academy Mr. Hassan

1005 LT The effect of organic and non-organic compost produced by vermicomposting with eisenia foetida on the growth of lycopersicon lycopersicum.

**Award** m **Student(s)** Ayesha Nazir **Grade 7** **Town** Manchester  
 Ruqayyah Paine **Grade 7** **Town** Terryville

● Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts  
 ● Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir

**Windsor** St. Gabriel School Margaret Rosa

4028 PT Does your shirt have your back: A study of clothing features that protect against UV light

**Award** m **Student(s)** Alma Clark **Grade 7** **Town** Windsor  
 Benjamin Clark **Grade 7** **Town** Windsor

● Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir



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## Alexion Biotechnology Awards

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[Proj#] [FCat] [Project Title]

### 8th Grade

**New Haven** Engineering & Science University Magnet School Mr. Roger L. Rushworth

2521 L8 Electric Energy Production In A Bio-fuel Cell For Varying Electrogenic Microbial Samples

**Award** 1 **Student(s)** Sumanth Kondapalli **Grade** 8 **Town** Milford

- CASE Urban School Challenge Awards with Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- Environmental/Energy Award-Urban Public School Award --- For the highest scoring environmental protection or alternate energy project by a New Haven Public School student.

**hamden** Hamden Middle School Danny Martins

2527 L8 Viral Protein 35 Inhibition: A Novel Treatment for Ebola Virus Disease

**Award** 2 **Student(s)** Akshar Agarwal **Grade** 8 **Town** Hamden

- Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

**Greens Farms** Greens Farms Academy Sara Campolettano

2509 L8 The Effects of Honey on the Healing and Regeneration of Lumbriculus variegatus

**Award** 3 **Student(s)** Lila Wells **Grade** 8 **Town** Darien

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

**New Haven** Betsy Ross Arts Magnet School Laggis

2508 L8 Hand Hygiene Effectiveness in Reducing the Number of Bacterial Colonies.

**Award** 4 **Student(s)** Aimee Turcotte **Grade** 8 **Town** Milford

- Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS



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[Proj#] [FCat] [Project Title]

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
5551 P8 UV-C Lighting As A Supplemental Method Of Preservation In Refrigerators To Reduce Energy Consumption  
Award 5 Student(s) Christopher Hwang Grade 8 Town Danbury

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion and Project Oceanology's Ocean Camp
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Energize CT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic 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 Mtg & \$500 to School Science Department for Equipment/Supplies
- Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF

**Avon** Talcott Mountain Academy Ms. Tockstien  
2537 L8 The Antimicrobial Properties of Papaya  
Award m Student(s) Zachary Waskowicz Grade 8 Town Southington

- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

**New Haven** Engineering & Science University Magnet School Roger Rushworth  
2535 L8 Optimizing Methane Oxidation by Methanotrophs Through the Engineering Application of Different Environments  
Award m Student(s) Jacob Feuerstein Grade 8 Town Woodbridge

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

**Orange** Southern CT Hebrew Academy Karen Howell  
1016 LT Analysis of Silicon's Effect On Bone Health, "Cell" Bioavailability, and "Skin" Absorption.  
Award m Student(s) Miriam Kantor Grade 8 Town Westport  
Chana Katz Grade 8 Town New Haven

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir



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## Alexion Biotechnology Awards

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[Proj#] [FCat] [Project Title]

**Orange** Southern CT Hebrew Academy Karen Howell

4010 PT Analysis of Nature's Digestive Enzymes and Effect of Inhibitors and Enhancers on Nutrition and Cell Absorption.

**Award** m

**Student(s)** Esther Lipsker

**Grade 8 Town** Stamford

Chana Kalmanson

**Grade 8 Town** New Haven

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- United States Public Health Service --- Certificate & \$50 Amazon gift card given by CSEF & medallion
- Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner

**Windsor** Madina Academy Esslam Hassan

2541 L8 Inexpensive Treatments for Plants Affected from Contaminated Soil by Oil Spills

**Award** m

**Student(s)** Radeyah Ahmed

**Grade 8 Town** Bloomfield

- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences



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## Alexion Biotechnology Awards

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[Proj#] [FCat] [Project Title]

### High School

**Greenwich** Greenwich High School Andy Bramante

3096 LS Temperature-Independent, Portable, and Rapid Field Detection of Ebola via a Silk-Derived Lateral-Flow System

Award 1 Student(s) Olivia Hallisey Grade 10 Town Greenwich

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sci. Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Glastonbury** Glastonbury High School Diane Pintavalle

3054 LS Preparation and Comparison of EGCG-Loaded PLGA and Cellulose Acetate Microparticles for Osteoarthritis Treatment

Award 2 Student(s) Anubhuti Mathur Grade 12 Town Glastonbury

- Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- Biophysical Society --- Biophysics Award- \$100

**Greenwich** Greenwich High School Andrew Bramante

6015 PS Synthesis of an Electromagnetically-Controlled Corn-Starch/PVA Biopolymer Microstructure for Extended and Targeted Drug Delivery

Award 3 Student(s) Margaret Cirino Grade 10 Town Greenwich

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1

**Greenwich** Greenwich High School Mr. Andrew Bramante

3009 LS Novel Ultrasonic-Induced Antibiotic Deterioration of Borrelia Biofilms for the Treatment of Chronic Lyme Disease

Award 4 Student(s) Sophia Ertel Grade 12 Town Old Greenwich

- Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- Connecticut Science Supervisors Association --- \$125 for a high school project
- The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation



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## Alexion Biotechnology Awards

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

**Greenwich** Greenwich High School Andy Bramante

3114 LS A Novel Antibody-Functionalized Graphene Transistor Lab-On-A-Chip for Selective Detection of Malaria Pathogens

Award **5** Student(s) **Paul Hansel** Grade 11 Town Old Greenwich

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

**Bridgeport** Bridgeport Regional Aquaculture School Mr. Shadle

3118 LS Development of Non-toxic Photostabilized Phycoerythrin for Application in Dye Sensitized Solar Cells

Award **m** Student(s) **Eunsun Hong** Grade 12 Town Shelton

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

**Greenwich** Greenwich High School Andrew Bramante

3049 LS Targeted Release of Moringa oleifera Cationic Proteins from Starch-g-poly (sodium acrylate-co-HEMA) Hydrogels for the Remediation of Aqueous Polychlorinated Biphenyls

Award **m** Student(s) **Vijay Kadiyala** Grade 11 Town Old Greenwich

- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir
- ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card

**Greenwich** Greenwich High School Andrew Bramante

3031 LS Chocolate's Theobromine, and not Caffeine, significantly reduces sleep in Drosophila

Award **m** Student(s) **Reid Radulovacki** Grade 11 Town Greenwich

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir

**Greenwich** Greenwich High School Mr. Andrew Bramante

3110 LS Hybridized Manganese Dioxide & Gold-Iron Oxide Nanoparticle Inhibition of Tumor Growth via Radiosensitization and Tumor Microenvironment Control

Award **m** Student(s) **William Yin** Grade 10 Town Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir
- Otero Family Award --- The Otero Family Award; \$200 cash



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**Alexion Biotechnology Awards**

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[Proj#] [FCat] [Project Title]

**Redding** SCSEF - Old Saybrook Senior High School Kellie Sutliff-Brady

3075 LS Elevated Levels Of Interleukin-8 in Non-Small Cell Lung Cancers induce Cell Survival During Chemotherapy

**Award** m **Student(s)** Andrew Pan

**Grade** 12 **Town** Old Saybrook

- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology