



Connecticut Science & Engineering Fair

Quinnipiac University

March 4 - 16, 2024

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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

Westport Greens Farms Academy Mathieu Freeman

5014 P7 Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars

Award 1 Student(s) Dylan Karpf Grade 7 Town Westport

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$300 & trophy
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation
- * Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications
- * Demos R Us Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

Wilton Middlebrook School William Desroches

1017 LT BEAT THE PEAT - RICE HUSK, THE SUSTAINABLE AND ECO-FRIENDLY ALTERNATIVE TO PEAT MOSS

Award 2 Student(s) Kabir Rokkam Grade 7 Town WILTON
Shushruth Balaji Grade 7 Town Wilton

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences MS Team- \$150 each & trophy
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place MS - \$300, Trophy
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Enfield Chiaravalle Academy Timothy Coleman

1026 LT How Does Different Types of Food Affect A Chicks' Growth and Learning Ability?

Award 3 Student(s) Zoha Shamsi Grade 7 Town Suffield
Leah Caswell Grade 7 Town Enfield
Marin Czerwiec Grade 7 Town Agawam

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF



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Waterbury ACES at Chase Lisa Debany
 5005 L7 Reducing Lycorma delicatula, Lantern Fly, Infestation: Using Essential Oils to Address Crop Damage and Food Shortages.

Award 4 **Student(s)** Besjana Veliu **Grade 7** **Town** Waterbury

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 7th grade- \$300 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Manchester Saint James School Ellen Oei
 5007 P7 Affect of Color on Heat Absorption

Award 5 **Student(s)** Saanvi Sethi **Grade 7** **Town** Manchester

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, \$100 Cash
- * J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences

Bozrah Fields Memorial School Joshua Fish
 4013 PT Oxidation rates of different metals in various liquids and temperatures.

Award m **Student(s)** Elise Kobelski **Grade 7** **Town** Bozrah
 Benjamin Savoie **Grade 7** **Town** Bozrah

- * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences MS Team- trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Enfield Chiaravalle Academy Tim Coleman
 1006 LT Plants vs. Wildfires

Award m **Student(s)** Megan Quinby **Grade 7** **Town** Windsor
 Arianna Plaz **Grade 7** **Town** Suffield
 Antonina Borodii **Grade 7** **Town** Enfield

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion



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[Proj#] [FCat] [Project Title]

Waterbury ACES at Chase Kelly Horan

5005 P7 What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?

Award m **Student(s)** Jacob Godfrey **Grade 7** **Town** Waterbury

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- * Aquarion Water Company --- 1st. \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$900

Waterbury ACES at Chase Lisa Debany

4015 PT Mycelium Trash Bags vs Plastic Trash Bags

Award m **Student(s)** Greyson Sauer **Grade 7** **Town** Prospect
Mason Mantz **Grade 7** **Town** Waterbury

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

Windsor Academy of Aerospace and Engineering Michelle Bellinger

2003 L7 The Study Of Novel Toothbrush Cleaning Methods To Decrease Bacterial Surface Growth Using Ultraviolet (UV) Germicidal Light And Mouthwash

Award m **Student(s)** Ana-Marlene Davis **Grade 7** **Town** Broad Brook

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 7th grade- \$200 & trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

8th Grade

Greenwich Central Middle School Andrew Bramante

5514 P8 The Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification

Award 1 **Student(s)** Mikah Kaalund **Grade 8** **Town** Greenwich

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$300 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Society of Women Engineers - Hartford Section --- Scientific Calculator



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Greenwich Eastern Middle School Andrew Bramante

2501 L8 Design of a Smart-Bandage to provide lasting Itch-Relief and Healing for an Insect Bite.

Award 2 **Student(s)** Lily Bittman **Grade** 8 **Town** Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 8th grade- \$200 & trophy
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- * Connecticut Science Supervisors Association --- \$125 for a middle school project

Greenwich Eastern Middle School Andrew Bramante

5502 P8 Shedding Light on the Prevalence of Harmful Butylated Hydroxytoluene Preservative in Artificially Formulated Dog Foods.

Award 3 **Student(s)** Mackensey Wilson **Grade** 8 **Town** Old Greenwich

- * Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 & trophy
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Wisner Chairman's Award --- \$500 cash & Plaque MS

Danbury Westside Middle School Academy Nancy Barlow

1008 LT Air Purifier that Effectively Removes Air Toxins - PM 2.5 and Formaldehyde

Award 4 **Student(s)** Arlis Arias-Paulino **Grade** 8 **Town** Danbury
Sivayazhini Sivasundar **Grade** 8 **Town** Danbury
Kuhutan Roy **Grade** 8 **Town** Danbury

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences MS Team- \$100 each & trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

Waterbury ACES at Chase Sandra Solimene

5511 P8 Creating Cost- Effective Eco-Friendly Insulation

Award 5 **Student(s)** Andrew Daukas **Grade** 8 **Town** Middlebury

- * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy
- * Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy

Avon Talcott Mountain Academy Brigette Zacharczenko

2509 L8 Will Roaches Direct Other Roaches to Food?

Award m **Student(s)** Talia McKeen **Grade** 8 **Town** West Granby

- * Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion



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[Proj#] [FCat] [Project Title]

Bozrah Fields Memorial School Josh Fish

5513 P8 How will temperature affect the mass that a helium balloon can lift?

Award **m** Student(s) **Kallie Bitgood** Grade 8 Town Bozrah

- * M&T Bank Mathematics Awards --- 2nd Place Middle School- \$200 and Trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Danbury Westside Middle School Academy Nancy Barlow

2518 L8 The Effect of Different Substrates on the Growth of Mycelium

Award **m** Student(s) **Milana Lenz** Grade 8 Town Danbury

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Danbury Westside Middle School Academy Nancy Barlow

1019 LT The Effects of Different Water Plants on Nitrate Water Levels

Award **m** Student(s) **Samantha Suda** Grade 8 Town danbury
Sarah Pacheco Grade 8 Town Danbury
Chelsea Dodo Grade 8 Town danbury

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

Wilton Middlebrook School Janica Bagosy

5510 P8 Burnt: A web-based application to help adolescents self-assess and seek help for stress and poor mental health

Award **m** Student(s) **Jackson Norful** Grade 8 Town Wilton

- * Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place Middle School - \$200, Trophy
- * Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

High School

Greenwich Greenwich High School Andrew Bramante

3020 LS Oral Delivery of Anticoagulant Dabigatran via a Mg-Micromotor Encapsulant Within a Gastric-Resistant Tablet for Ischemic Stroke Treatment

Award **1** Student(s) **Lula Wang** Grade 9 Town Old Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$500 & plaque
- * Regeneron Biomedical Science Award --- Certificate & \$375.00 cash



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Windsor The Loomis Chaffee School Koby Osei-Mensah
 [6044] [PS] A Deep Semi-Supervised Domain Generalization Approach for Epileptic Seizure Prediction using Electro Encephalography (EEG)

Award [2] **Student(s)** Sunwoo An **Grade** 9 **Town** Seoul

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 [3004] [LS] Therapeutic Potential of Antibody Drug Conjugates Targeting The Expression of Trophoblast Cell-Surface Antigen 2 (TROP-2) On High Grade Serous Epithelial Ovarian Carcinoma

Award [3] **Student(s)** Ana-Lois Davis **Grade** 12 **Town** Broad Brook

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place High School - \$300 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque
- * The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$100 cash

Greenwich Greenwich High School Andrew Bramante
 [3055] [LS] Development and In vitro Verification of a Polymersome for Blood-Brain Barrier Transport Through a Novel Machine Learning Model

Award [4] **Student(s)** Ashley Malkin **Grade** 11 **Town** Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- * Pfizer Computational Biology and Bioinformatics 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 --- 4th Place Biotechnology Senior High - plaque

Wallingford Choate Rosemary Hall Yingxin Gao
 [3121] [LS] Identifying the Patterns in the Progression of Alzheimer's Disease

Award [5] **Student(s)** Ann Song **Grade** 11 **Town** Farmington

- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$200, Plaque
- * Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque

Farmington Farmington High School Alexandra Raymunt
 [6054] [PS] Steeping Towards Safety: Addressing Mycotoxin Risks in Coffee and Tea

Award [m] **Student(s)** Rhea Doshi **Grade** 9 **Town** Farmington

- * Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest



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Glastonbury Glastonbury High School Diane Pintavalle

3066 LS Proteomic Analysis of Autism-Associated Variants in Human ASPM Gene

Award **m** Student(s) **Presthika Vijaykumar** Grade 11 Town Glastonbury

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

3071 LS Fabrication of a Europium-based Magnetic Nanosensor for the Detection of D-Serine in Early-onset Alzheimers

Award **m** Student(s) **Ava Jackson** Grade 11 Town Old Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Connecticut Science Supervisors Association --- \$125 for a high school project

Greenwich Greenwich High School Andrew Bramante

3009 LS Rapid Detection of Stress Biomarker Cortisol via a Molecularly Imprinted Polypyrrole Sensor

Award **m** Student(s) **Ryan Wadhwa** Grade 10 Town Riverside

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Hamden Hamden Hall Country Day School Gina D'Angelo

6025 PS Deep learning based drug response prediction algorithm about synergistic and antagonistic responses of cell lines and drug combos.

Award **m** Student(s) **Jiahui Chen** Grade 11 Town New Haven

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney