



Connecticut Science & Engineering Fair

Quinnipiac University

March 3 - 15, 2025

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Final Judging Results

Award Legend

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

Biotechnology Awards

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

7th Grade

New Haven Foote School Elliot Dickson

2016 L7 Studying Muscle Memory in Planaria to Understand Neurodegenerative Diseases

Award 1 Student(s) Jessica Park Grade 7 Town New Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5rd Place- Life Sciences 7th grade- trophy
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$200 & trophy
- * Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650

Avon Talcott Mountain Academy Kenneth Wright

2010 L7 The Use of Short-form Media and its Correlation With Working Memory Functions in Adults.

Award 2 Student(s) Konstantinos Raptis Grade 7 Town West Hartford

- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$150 & trophy

Wilton Middlebrook School Leah Pariso

5013 P7 Cell Shield: Investigating Materials to Block Non-ionizing Radiofrequency Radiation from Common Cell Phone Use

Award 3 Student(s) Bennett Norful Grade 7 Town WILTON

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- * Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$200 Cash for top project that has innovative nuclear applications
- * Kiev Family Awards --- 3rd place - \$100 - For Excellence in Engineering Middle School

Enfield Chiaravalle Academy Tim Coleman

1012 LT Whats the best hydroponic soil?

Award 4 Student(s) Makenzie Pappas Grade 7 Town Enfield
Lily Szwed Grade 7 Town Longmeadow
Jake Swanson Grade 7 Town West Springfield

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



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Bozrah Fields Memorial School Joshua fish
 1025 LT A study of the efficiency of ice melt substances and their environmental impact on roadside vegetation
 Award 5 Student(s) Analise Williams Grade 7 Town bozrah
 Ella Sikorski Grade 7 Town Bozrah

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy
- * Association for Women Geoscientists --- Certificate & \$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
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

Danbury Saint Gregory the Great School Christine Fahey
 1003 LT Fertilizer vs Compost
 Award m Student(s) Lucia Molisani Grade 7 Town Redding
 Gemma Molisani Grade 7 Town Redding

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

Hamden Hamden Hall Country Day School Paulomi Aldo
 2008 L7 How do levels of U.V. light affect bacterial growth or mutations?
 Award m Student(s) Matthew Wallis Grade 7 Town Hamden

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 7th grade - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

North Haven Slate School Jennifer Staple-Clark
 2004 L7 Petri Dish Experiments Exploring Bacteria Growth in Soil Samples With and Without Nitrogen-Fixing Bacteria
 Award m Student(s) Pierson Clark Grade 7 Town North Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 7th grade- \$150 & trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion



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8th Grade

Greenwich Central Middle School Andrew Bramante

2505 L8 Development of a Thyme Oil-in-Hydromed Wearable Anklet for the Natural, Effective Repellant of Ticks

Award **1** Student(s) **Clara Cahill** Grade 8 Town Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 8th grade- \$150 & trophy
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * J.A. Augustine and H. Glista Awards --- \$100 for excellence in Life Sciences

Greenwich Central Middle School Andrew Bramante

5513 P8 Neutralization of Ocean Acidification, and Promotion of Additional Atmospheric CO 2 Sequestration, via a Melamine-PTFE-Mg(OH) 2 Floatable Sponge

Award **2** Student(s) **Tian-yi Chen** Grade 8 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$150 & trophy

Greenwich Eastern Middle School Andrew Bramante

2506 L8 Fabrication of a Biodegradable, Nutrient-Rich, Orange Peel-Loaded Hydrogel for Thermally-Programmed Release of Water to Maintain Soil Moisture

Award **3** Student(s) **Rajsi Choudhary** Grade 8 Town Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 8th grade- \$200 & trophy
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place MS - \$200, Trophy
- * Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$150 & trophy
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. - MS Student in Engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * 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

Greenwich Eastern Middle School Andrew Bramante

2516 L8 Investigating the Effects of Natural Remedies on Pine Pollen Antigen Levels to Combat Allergies

Award **4** Student(s) **William Chen** Grade 8 Town Greenwich

- * Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy



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Greenwich Eastern Middle School Andrew Bramante

5511 P8 Field and Lawn Run-off Removal of Nitrates and Phosphates via an Iron & Calcium Fortified Biochar

Award 5 **Student(s)** Ellie Mao **Grade** 8 **Town** Riverside

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 8th Grade Ind. - \$200 & trophy
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Greenwich Western Middle School Andrew Bramante

5502 P8 Integration of Photoluminescent Manganese-doped ZnS Nanocrystals

Award m **Student(s)** Alexandra Rothstein **Grade** 8 **Town** Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$150 and Plaque, Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Kiev Family Awards --- 2nd place - \$150 - For Excellence in Engineering Middle School

Hamden Hamden Hall Country Day School Paulomi Aldo

1015 LT Curing E.Coli with antibiotic vs. Human Impact

Award m **Student(s)** Bella Zhou **Grade** 8 **Town** Hamden, New Haven
Gabriela Pereira **Grade** 7 **Town** Hamden

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences MS Team- trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Salisbury Indian Mountain School Sonya Friel

1011 LT Microneedle constructs for cutaneous slow-release insulin and GLP-1 in diabetes mellitus

Award m **Student(s)** Tianyu Xie **Grade** 8 **Town** Lakeville
Yiheng Zhao **Grade** 8 **Town** Lakeville

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion



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[Proj#] [FCat] [Project Title]

Westport Greens Farms Academy Mathieu Freeman
5523 P8 Investigating Modified Dental X-Rays in Novel Digital Computed Radiography Imaging for Emergency Medical Services
Award **m** Student(s) **Dylan Karpf** Grade 8 Town Westport

- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$200 and Plaque, Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention

Wilton Middlebrook School Arnav Balaji
2522 L8 Kidney Chronicles: Genes at Work
Award **m** Student(s) **Shushruth Balaji** Grade 8 Town Wilton

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5th Place- Life Sciences 8th grade- trophy
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$200, Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Wilton Middlebrook School Jessica Garcia
5527 P8 Smart Eye: Assistive Glasses for the Visually Impaired
Award **m** Student(s) **Ishan Chugh** Grade 8 Town Wilton

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- * IEEE William R. Wessman Awards --- \$250 Honors Award -Junior
- * Dreams Unlimited Award --- \$150 cash award and certificate
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3

Wilton Middlebrook School Janica Bagosy
1026 LT Ocean Acidification and Its on Plant Growth
Award **m** Student(s) **Alex Shiue** Grade 8 Town Wilton
Kabir Rokkam Grade 8 Town Wilton

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences MS Team- \$200 (split) & trophies
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners



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High School

Greenwich Greenwich High School Andrew Bramante

3129 LS Lipid-Based Codelivery of Doxorubicin and siRNA PD-L1, as a Multi-function Chemo-immunotherapy, Selective to PDAC via its MUC1 Overexpression

Award 1 Student(s) Lula Wang Grade 10 Town Old Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$300 & plaque and trip to ISEF
- * Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$300 & plaque

Westport Staples High School Amy Parent

3118 LS Effect of Diet on Lifespan, Tumor Burden and Wnt Signaling Activation in a Drosophila Apc1/Apc2-RasV12 Model of Colorectal Cancer

Award 2 Student(s) William Boberski Grade 12 Town Westport

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$200 & plaque

Greenwich Greenwich High School Andrew Bramante

6097 PS Development of Hybrid Servo-Pneumatic Lower-Body Exoskeleton for use as a Mobility Assistance Device

Award 3 Student(s) Isaac Bell Grade 11 Town Riverside

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$100 & plaque

Greenwich Greenwich High School Andrew Bramante

3083 LS Fabrication of an Antibiotic Gelatin Hydrogel Delivery Mechanism for Atopic or Injectable Release of mRNA Vaccines

Award 4 Student(s) Neil Pendkar Grade 10 Town Old Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place Biotechnology Senior High - plaque

Wallingford Choate Rosemary Hall Ben Small

3155 LS Development of an AI-Enabled Pressure-Sensing Mat System and Validation of Novel Gait Biomarkers Through Multi-Sensor Fusion for Early Detection of Neurodegenerative Disorders

Award 5 Student(s) Rhea Doshi Grade 10 Town Farmington

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$100, Plaque
- * Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR



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[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Greenwich Brunswick School Dana Montanez

3501 LST Optimization of Aptamer AS141: An Effort to Increase Binding Efficiency to Nucleolin, an Overexpressed Protein on Cancer Cells.

Award m **Student(s)** Jackson Cunningham **Grade** 11 **Town** Greenwich
 Henry Mayerfield **Grade** 11 **Town** Scarsdale

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place - Life Sciences Senior High Team - Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

3006 LS Targeted Delivery of a Melittin Anti-inflammatory Peptide via a Eudragit-Coated Sporopollenin Exine Capsule, for Effective Treatment of Crohn's Disease

Award m **Student(s)** Hannah Dcruz **Grade** 10 **Town** Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$200 & plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention

Stamford King School Victoria Schulman

6104 PS A Voice Controlled Robotic Arm for Assisting Complex Surgical Tasks

Award m **Student(s)** Dillon Maltese **Grade** 11 **Town** Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences Senior High Individual - \$100 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$300 and Plaque, Medallion
- * 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 card given by ONR

Westport Staples High School Amy Parent

3048 LS The Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy (DMD) in C. Elegans

Award m **Student(s)** Nolan Franics **Grade** 11 **Town** Westport

- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF



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| | | |
|-------------------|----------------------------|---|
| Woodbridge | Amity Regional High School | Lindsay McCarthy |
| 6017 | PS | Developing a Wireless, Discreet, Precise, and Painless Piezoelectric Micropump System for Diabetes Patients |
| Award | m | Student(s) Joy Deng |
| | | Grade 11 Town Orange |

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7,500/year)
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - (amount undefined) to a junior
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100