

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Regular Fair Awards - Finalists

[SchTown]

[School]

[Teacher]

[Proj#]

[Project Title]

Sorted by:

- Fair Category

- Finalist standing in regular fair (1st, 2nd, etc)

- Project number

Life Sciences - High School Individual

South Windsor South Windsor High School Sivagami Chockalingam

Targeting Telomerase Activity in Malignant Cancer Cells: RNA Interference and Enzymatic Inhibition to Induce Growth 3067

Arrest, Senescence, and Block Metastatic Dissemination

Student(s) Srinidhi Karthik Grade 11 Town South Windsor

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences Senior High- \$300 & Plaque

* 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

* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$104,000 (\$26,000 per year) for exemplary 11th grade project

Westport Greens Farms Academy Juli Gerdes

3002

Investigating miR-30a-5p Modulation and its Impact on Glucose Uptake and Insulin Sensitivity in 3T3-L1 cells for Metabolic Disorder Research

Student(s) Katerin Pineda

Grade 12 Town Bridgeport

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences Senior High- \$200 & Plaque

Greenwich High School Andrew Bramante Greenwich

A Novel Multi-Modal ML Approach for Early Detection of Alzheimer's Disease Using Clinical, Genetic, and MRI Modalities 3011

Student(s) Keen-Yin Woo

Grade 11 Town Riverside

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences Senior High- \$100 & Plaque
- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School \$200, Plaque
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion

Hamden Hall Country Day School Yang Yang-Hartwich

3038 Enhancing Ovarian Cancer Treatment in Chemotherapy Resistant BPRN-101 & BPRN-129 Cell Lines Utilizing Exosomal Chemotherapy Delivery

Student(s) Sophia Vash Grade 11 Town Fairfield

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences Senior High- Plaque

Westport Staples High School **Amy Parent**

The Effect of the Nutritional Supplement, Curcumin, on Vulval induction to evaluate its role in Epidermal Growth Factor 3096 **Driven Cancers**

Grade 12 Student(s) Alexis Krenzer Town Westport

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5th Place- Life Sciences Senior High- Plaque
- * RNP Regenerative Medicine Excellence Awards --- \$250 Excellence in Translational Medicine

Greenwich Sacred Heart Greenwich Joyce Reed

3001 The Effect of Gender, Age, and Costoclavicular Symmetry or Asymmetry on the Costoclavical Interval for Neurogenic Thoracic Outlet Syndrome (nTOS) Patients

Grade 11 Town Pleasantville Student(s) Ann Slocum

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist Medallion

2025 Regular Fair Awards

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New Haven

Engineering and Science University Magnet School Paula Matei-Grysiak

3003

Implementation and Validation of a Novel Machine-Learning-Based Mobile Gyrocardiography System for Arrhythmia Detection

Student(s) Ethan Joseph

Grade 10 Town West Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place High School - \$300 and Plaque, Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- * The Community Foundation for Greater Hew 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

3006

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

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

New Haven Engineering and Science University Magnet School Alyssa Anderson

3008

Evaluating LYVE1 Gene Expression in Breast Cancer Using qPCR Analysis and Comparing with Hyperparameter-Tuned Models for LYVE1 Gene Expression in Pancreatic Cancer

Student(s) Nivrith Ananth Iver

Town West Haven Grade 11

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place High School - \$ 100 and Plaque, Medallion
- Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Norwich Norwich Technical High School Aleatha Pelloni

3012

Proving Microplastics Transfer from Water to Living Organisms Through Vegetation

Student(s) Solibella Davis

Grade 11 Town New London

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, \$300, Plague & Stipend to Compete at GENIUS Olympiad
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * University of Hartford Scholarships --- University of Hartford Scholarship For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)
- * RNP Regenerative Medicine Excellence Awards --- \$250 Excellence in Translational Medicine
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

Stamford King School Victoria Schulman

3026

Treating APOE4-induced TGFβ-mediated Perivascular Fibrogenic

Student(s) Leon Wang

Grade 11 Town Stamford

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

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[Project Title]

Reddina

CT STEM Lindsay McCarthy

3027

Determining the Correlation between Physician's Perspective on Cannabis Legalization and Physician Comfort Discussing Cannabis Use with Youth Patients

Student(s) Janet Fan

Grade 11 Town Woodbridge

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Woodbridge Amity Regional High School Sarah Reeves

3037

Determining how Comorbid AUD/SUD impacts Ketamine Treatment Outcomes in Veterans with PTSD/MDD

Student(s) Mila Mejnartowicz

Grade 11 Town Woodbridge

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- University of Hartford Scholarships --- University of Hartford Scholarship For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)

Lakeville The Hotchkiss School Richard Kirby

3039

Meta-analysis and Design of a Panel of Biomarkers Associated with Schizophrenia for the Development of a Comprehensive Diagnostic Test for Schizophrenia

Student(s) Sia Reddy

Grade 11 Town Avon

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Westport Greens Farms Academy Juli Gerdes

3041

The Effect of Nrf2 inhibition through Bexarotene on the chemoresistance of Esophageal Squamous Cell Carcinoma and Esophageal Adenocarcinoma Cell Lines.

Student(s) Stella Savone

Grade 12 Town Westport

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

New Haven Sound School Chuck Mulligan

3042

Evaluation of Potential Filtration Enhancements Applied to Municipal Water: Assessing Potential Ways to Reduce Enterococcus Bacteria Levels Discharging From Wastewater Facilities

Student(s) Britney Xochipiltecatl Cuahtepitz

Grade 12 Town New Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$100 / plaque
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Woodbridge Amity Regional High School Sarah Reeves

Light-microscopy based connectomics: Achieving dense reconstruction of brain tissue using pan-expansion microscopy and 3043 GFP expression

Student(s) Mihir Nandy

Grade 11 Town Woodbridge

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Windsor The Loomis Chaffee School Koby Osei-Mensah

3051 Differences in Proliferating and Non-Proliferating Oligodendrocyte Precursor Cell Morphologies

Student(s) Yejoo Kwon

Grade 11 Town Saratoga

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

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Reddina

CT STEM Lindsay McCarthy

3057

Evaluating the Antifungal Potential of Citronella and Cassia Essential Oils at Different Concentrations Against the Mycelia Growth of Bipolaris sorokiniana

Student(s) Elena Huber

Grade 10 Town Woodbridge

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * RNP Regenerative Medicine Excellence Awards --- \$250 Excellence in Translational Medicine

Hamden Hall Country Day School Daniel Kemp

3065

The role of glucose transporter 4 in cardiac virus infection

Student(s) Yidi Pena

Town Woodbridge Grade 11

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Stamford

King School Victoria Schulman

3069

Understanding the effect of nutrient additives on the growth and performance of the seaweeds Saccharina latissima and Gracilaria mammillaris

Student(s) Lucia Vivanco

Grade 11 Town Stamford

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Project Oceanology --- In1dividual 1 Marine Science Experience Camp spot + T-Shirt & cap (swag), First Place 8, 9, 10 grader valued at \$1095

Wallingford Choate Rosemary Hall Zhiyuan Hu

3075

Clinical Application of Early Cancer Diagnosis: Supervised and Semi-Supervised Neural Networking for the Detection and Classification of Circulating Tumor Cells

Student(s) Yumeng Wang

Grade 11 Town Wallingford

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School \$300, Plaque
- * Otero Family Award --- The Otero Family Award; \$250 cash

Greenwich

Greenwich High School Andrew Bramante

3083

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

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

Bethel

Bethel High School Raymond Turek

3084

Microplastic Influence on Microbial Strength Against Disinfection

Student(s) Shravya Mankala

Grade 10 Town Bethel

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

Darien High School David Lewis Darien

3090

SLE B cells have an increase in interferon alpha/beta singaling compared to DLE B cells

Student(s) James Smith

Grade 12

Town Darien

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

2025 Regular Fair Awards

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[Proj#] [Project Title]

Greenwich High School Andrew Bramante Greenwich

3101 Restoration of Sleep Cycle and Activity Interruption of Alzheimer's Rivastigmine Treatment with the Addition of Labetalol

Student(s) Rachel Goldenberg

Grade 10 Town Old Greenwich

Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Westport Staples High School Amy Parent

3115 Effect of dietary sweeteners on lipid accumulation in obese C. elegans to evaluate if calorie-free sweeteners promote weight reduction.

Student(s) Sienna Young

Grade 12 Town Westport

Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Westport Staples High School Amy Parent

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

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

Hamden Hall Country Day School Sarrah Gavin

3123 The Association Between Treatment Choice and Breast Cancer Survival

Student(s) Anna Aslan

Grade 9 * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Bridgeport Fairchild Wheeler-Biotech Tara Liskov

The Effect of Natural Root Stimulators on Plant Height and Root Growth 3125

Student(s) Ite Daini

Grade 12 Town Bridgeport

Town Hamden

- Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

Woodbridge Amity Regional High School Sarah Reeves

3128 Enhancing Coral Reef Resilience Through Utilizing a Two-Part Dosing System to Increase the pH levels of CO. Acidified Ocean Water

Student(s) Jason Liang

Grade 11 Town Woodbridge

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Freeman Family Excellence in Chemistry Awards --- \$200 For Excellence in Chemistry or Chemical Engineering -High School

Greenwich Greenwich High School Andrew Bramante

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

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

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[Project Title]

Darien Darien High School David Lewis

3131 Association Between Food Insecurity and Mortality Outcomes Among Cancer Survivors in the United States

Student(s) Lily Keehlwetter

Grade 12 Town Darien

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High CSF Medallion
- * RNP Regenerative Medicine Excellence Awards --- \$250 Excellence in Translational Medicine

Avon Avon High School Galuska Andrea

3132 Pathonix: Enhancing Ovarian Cancer Detection with an Explainable and Efficient Ensemble Learning Framework

Student(s) Vishnu Mukku

on Awarda with The Jackson Laboratory Finalist Life Sai

Town Avon

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Grade 10

- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion

Hamden Hall Country Day School Robert Link

Development and experimentation of an AI algorithm alongside a Near-Infrared LED device to assist in venipuncture.

Student(s) Neev Makin

Grade 11 Town Hamden

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist Medallion
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Woodbridge Amity Regional High School Sarah Reeves

Development of a Solar-Powered Floating Phytoremediation Device to Filter Methyl Red Dye Utilizing a Rotating Inner Disk

for Enhanced Water Circulation

Student(s) Youlmin Lee Grade 12 Town Woodbridge

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$300 / plaque

Hamden Hall Country Day School Lucia Jilaveanu

3140 Caveolin-1 as a Biomarker and Potential Mediator of Melanoma Brain Metastasis

Student(s) Andrei Balas

Grade 11 Town Cheshire

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist Medallion
- * Regeneron Biomedical Science Award --- Certificate & \$375.00 cash

Windsor The Loomis Chaffee School Koby Osei-Mensah

3143 Mismatch repair deficiency drives resistance to alkylating agents, allowing for mutation accumulation

Student(s) Lin Zhang

Lin Zhang Grade 11 Town Greenwich

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

South Windsor South Windsor High School Suma Basavarappa

SiExo: Modular Bayesian-Optimized Dual-Ligand TfR/RVG Exosomes for siRNA Delivery and BBB Transcytosis in CNS Neurotherapeutics

Student(s) Samarth Basanth

Grade 11 Town South Windsor

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF

2025 Regular Fair Awards

[SchTown] [School] [Teacher]

[Proj#] [Project Title]

Greenwich Greenwich High School Andrew Bramante

3146 Leveraging of Neural Network Design to Create High-Accuracy, Low-Latency Detection of Real-time

Student(s) Ryan Wadhwa

Grade 11 Town Riverside

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place High School- \$100, Plaque

Woodbridge Amity Regional High School Nicholas Shamp

Determining the Effects of Wood Density on the Survival, Growth, Development, and Adult Emergence of Anoplophora 3147 glabripennis Grade 12

Student(s) Sabrina Osowiecki

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

Manchester High School Wendy Turek-Hernandez

Flood Wave Reduction Due to Artificial Reefs

Student(s) Anas Hales

Grade 12 Town Manchester

Town Orange

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High - CSF Medallion
- Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 4th Place High School - Plaque, Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF

Wallingford Choate Rosemary Hall Ben Small

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

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

Life Sciences - High School Teams

Avon Avon Old Farms School Jack Sanford

Senior High Team- \$300 (split) & Plaque

Investigating Novel Adjuvant Therapies to Combat Tetracycline Efflux Pump Resistance in Escherichia Coli 3535

Student(s) Jadon Subbu Grade 12 Town Avon Ahren Lehnhoff Grade 11 Town Avon

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences

New Haven Engineering and Science University Magnet School Alyssa Anderson

A Comprehensive Method to Combat Antibiotic Resistance in Soil Microbes: Integration of CRISPR-Cas 9 Gene Editing and 3519

Nanoparticles for Enhanced Biodegradation of Pollutants

Grade 10 Town Milford Student(s) Sahithi Aliminate **Saket Aliminate** Grade 11 Town Milford

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences Senior High Team- \$200 (split) & Plaque

2025 Regular Fair Awards

[SchTown] [School] [Teacher] [Proj#] [Project Title] Brunswick School Dana Montanez Greenwich Optimization of Aptamer AS141: An Effort to Increase Binding Efficiency to Nucleolin, an Overexpressed Protein on Cancer 3501 Grade 11 Town Greenwich Student(s) Jackson Cunningham **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

Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

3502 Symbiotic Synthesis: Exploring the Co-Culture of Spirulina and Bacillus subtilis for Enhanced CO. Absorption

Student(s) Autumn Settembre Grade 9 Town Trumbull

Johnathon Lin Grade 9 Town Bridgeport

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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High Team CSF Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist CSF Medallion

Greenwich Brunswick School Dana Montanez

3507 Creation of a Long-term, Biodegradable, Alkaline cube to locally offset the effects of ocean acidification in reef ecosystems.

Student(s) Tyrus Ostrowski Grade 10 Town Port Chester

Nathaniel O'Connor Grade 10 Town Chappagua

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion

Norwich Norwich Technical High School Aleatha Pelloni

3509 Impact of Sunscreen Contaminants on Plutes Growth and Development

Student(s) Addison Hackett Grade 11 Town Willimantic

Kaitlyn Tortorich Grade 11 Town Windham

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High Team CSF Medallion
- * EnergizeCT Technical High School Science & Technology Awards --- 3rd Place- Technical High School , \$100, Plaque
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship \$104,000 (\$26,000 per year) for exemplary 11th grade project
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship \$104,000 (\$26,000 per year) for exemplary 11th grade project

Norwich Norwich Technical High School Aleatha Pelloni

eDNA Testing for Invasive Species

Student(s) Jarelis Acevedo Grade 11 Town Norwich

Nora Van Haitsma Grade 11 Town Norwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Science Senior High Team CSF Medallion
- * EnergizeCT Technical High School Science & Technology Awards --- 2nd Place- Technical High School , \$200, Plaque
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

2025 Regular Fair Awards

[SchTown] [School] [Teacher]

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Greenwich Brunswick School Dana Montañez

3518 Identification and Isolation of the Disease-inhibiting Protein SCGB1D2 in Ungulates

Student(s) Chris Pedlow Grade 10 Town Cos Cob

Gabe Levy Grade 10 Town Greenwich

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion

Hamden Hall Country Day School John Scaife

Using Higuchi's Fractal Dimension and Kernel-Based Learning to Monitor Tremor Severity and Gait Dynamics in

Parkinson's Disease

Student(s) Helena ChaineGrade 12Town OrangeLinda ChenGrade 11Town WoodbridgeLeon JiangGrade 11Town New Haven

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion

Greenwich Brunswick School Dana Montanez

The Damage of UV repellants and absorbents on Microfauna Found in and around Coral Reef Ecosystems

Student(s) Jayden Montanez

Grade 10

Town Greenwich

Grade 10

Town Old Greenwich

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion

Life Sciences - Middle School 7th Grade

Danbury Saint Gregory the Great School Christine Fahey

2001 Would You Like Plastic With That?

Student(s) Rahil Shah Grade 7 Town Danbury

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 7th grade- \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.

North Haven Slate School Jennifer Staple-Clark

2004 Petri Dish Experiments Exploring Bacteria Growth in Soil Samples With and Without Nitrogen-Fixing Bacteria

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

Stamford Bi-Cultural Hebrew Academy Chris Graseck

2009 The Effects of Dish Soap on Plants

Student(s) Caleb Moreen Grade 7 Town Stamford

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 7th grade- \$100 & trophy
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist CSF Medallion

2025 Regular Fair Awards

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Danbury

Saint Gregory the Great School Christine Fahev

2012

1 Pollutant: 4 Filtering Methods

Student(s) Dheer Bhavsar

Grade 7 Town Danbury

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences 7th grade- trophy
- Aquarion Water Company --- 2nd. \$150.00 Cash Grade 7-8 For Excellence in Water Quality or Environmental Management
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

New Haven

Foote School Elliot Dickson

2016

Studying Muscle Memory in Planaria to Understand Neurodegenerative Diseases

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

Hamden

Hamden Hall Country Day School Paulomi Aldo

2008 How do levels of U.V. light affect bacterial growth or mutations? 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

Bridgeport

Black Rock School Elizabeth Moran

2018

Mouth Bacteria Experiment

Student(s) JohnJairo Arriaza

Grade 7 Town Bridgeport

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

Life Sciences - Middle School 8th Grade

Greenwich

Eastern Middle School Andrew Bramante

2506

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

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

2025 Regular Fair Awards [Teacher] [SchTown] [School] [Proj#] [Project Title] Greenwich Central Middle School Andrew Bramante 2505 Development of a Thyme Oil-in-Hydromed Wearable Anklet for the Natural, Effective Repellant of Ticks Grade 8 Town Greenwich Student(s) Clara Cahill * 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 Eastern Middle School Andrew Bramante Unraveling Weather-Pollen Interactions: Machine Learning for Allergy Forecasting 2521 Town Greenwich Student(s) Siddharth Nimmagadda Grade 8 * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 8th grade- \$100 & trophy * Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy Greenwich Sacred Heart Greenwich Mary Musolino 2509 Testing the Effectiveness of Green and Black Tea as a Plant Nutrient Student(s) Paige Creegan Grade 8 Town Briarcliff Manor * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences 8th grade- trophy * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF Wilton Middlebrook School Arnav Balaji Kidney Chronicles: Genes at Work 2522 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

Greenwich Sacred Heart Greenwich Mary Musolino

2514 Bamboo Bio-Plastic

Student(s) Olivia Hastings

Grade 8 Town Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Sciences 8th grade - CSF Medallion
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

Danbury Saint Joseph School Kathleen Spina

2520 Crossed Up!

Student(s) Brayden Crabbe

Grade 8 Town Danbury

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Sciences 8th grade - CSF Medallion
- * Wisner Chairman's Award --- \$500 cash & plaque

2025 Regular Fair Awards

[SchTown]

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[Proj#]

[Project Title]

Life Sciences - Middle School Teams

Town Wilton

Town Wilton

Wilton Middlebrook School Janica Bagosy

1026 Ocean Acidification and Its on Plant Growth

Student(s) Alex Shiue Grade 8

Kabir Rokkam Grade 8

* 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

Greenwich Greenwich Academy Katie Hertzmark

1001

Microplastics in Oysters

Student(s) Addison Garner Grade 7 Town Greenwich

Arabella Miller Grade 7 Town Greenwich

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences MS Team- \$100 split & trophies

* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$200 / trophy

* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place MS- \$100, Trophy

Hamden Hall Country Day School Paulomi Aldo

1015 Curing E.Coli with antibiotic vs. Human Impact

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

Wilton Middlebrook School Allison Norful

Smart Sprouts: Automated Precision Care for Optimal Plant Health

Student(s) Anamitra Arjun Grade 7 Town Wilton
Anandita Arjun Grade 7 Town Wilton

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion

Salisbury Indian Mountain School Sonya Friel

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

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

2025 Regular Fair Awards

[SchTown] [School] [Teacher]

[Proj#] [Project Title]

1025

New Haven Worthington Hooker School Douglas Jones

Does Plant Orientation Affect Growth

Student(s) Sieun Yoo Grade 8 Town New Haven
Clarissa Castilio Grade 8 Town New Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist Life Sciences Middle School Team CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place Middle School Trophy, Medallion
- * Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.

Bozrah Fields Memorial School Joshua fish

A study of the efficiency of ice melt substances and their environmental impact on roadside vegetation

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

Greenwich Sacred Heart Greenwich Mary Musolino

1029 Creating and Testing Mango and Pomegranate Peel-Based Bioplastics as Food Packaging and a Plastic Bag Substitute

Student(s) Mary McBreen Grade 8 Town Greenwich

Abby Knox Grade 8 Town Greenwich

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion

Physical Sciences - High School Individual

Greenwich Greenwich Country Day School Nathan Haag

Optimizing Vertical Take-Off and Landing (VTOL) Aircraft Efficiency Through Propeller Design: Making Air Flight More

Accessible, Affordable, and Sustainable

Student(s) Cooper Taylor Grade 11 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place Physical Sciences Senior High Individual \$300 & Plaque
- * Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$100 & plaque
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * American Institute of Aeronautics & Astronautics Connecticut Section --- \$200 award, certificate
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award \$250
- * Zepke Awards --- \$150 For the Best Use of Electronic Circuitry- Senior High

6099

2025 Regular Fair Awards

[SchTown]

[School]

[Teacher]

[Proj#]

[Project Title]

South Windsor South Windsor High School Danel Eitel

6047

OatNET: Novel Neural Network architecture & mathematical model for reducing Dense Layer computational complexity via ternary weight decomposition & rank-1 magnitude approximation

Student(s) Karthik Srikumar

Grade 10 Town South Windson

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Connecticut Science Fair Association Mathematics Awards --- High School Finalist Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. HS Student in
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt For Excellence in Mathematics

Stamford

King School Victoria Schulman

6104

A Voice Controlled Robotic Arm for Assisting Complex Surgical Tasks

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

Windsor The Loomis Chaffee School Koby Osei

6098

A Multi-Modal Modular Robotic System: Self-Assembly and Navigation in Complex Terrains

Student(s) Michael Ma

Town Medina Grade 9

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Infosvs Foundation Computer Science Awards --- 2nd Place High School \$200, Plaque
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention

Greenwich Greenwich High School Andrew Bramante

6097

Development of Hybrid Servo-Pnuematic Lower-Body Exoskeleton for use as a Mobility Assistance Device

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 & plague

Stamford King School Victoria Schulman

Making a Real-Time Water Quality Monitor 6001

Student(s) Sowa Laryea-Adjei

Grade 11 Town Stamford

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Senior High - CSF Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion

Windsor The Loomis Chaffee School Koby Osei-Mensah

6002

A Stroke of Genius: Applying Smart Wearable Technology to Record and Improve Freestyle Stroke in Competitive Swimmers

Student(s) George Mirgorodskiy

Grade 11 Town San Mateo

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School \$200 and Plaque Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nautical Research - \$200 Cash for top project that has innovative nautical applications

2025 Regular Fair Awards

[SchTown]

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[Proj#]

[Project Title]

Wallingford

Choate Rosemary Hall ning tang

6012

Development of Innovative Low-Frequency Sound Absorption Structures Using Advanced Metamaterials

Student(s) Neil Wang

Grade 10 Town long island city

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Senior High CSF Medallion
- * Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

Woodbridge Amity Regional High School Lindsay McCarthy

6017

Developing a Wireless, Discreet, Precise, and Painless Piezoelectric Micropump System for Diabetes Patients

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

Westport Greens Farms Academy Mathieu Freeman

6032

STUDYING THEORIES OF PREBIOTIC CHEMICAL EVOLUTION AND ABIOGENESIS BY TESTING THE PRESENCE OF THE PRECURSORS OF LIFE IN CLAY RESEARCH

Student(s) Lourdes Hassan

Grade 12 Town Wilton

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

Windsor Academy of Aerospace & Engineering Charles Copeland

6039

The Fibonacci sequence and generating electricity

Student(s) Marcus Davis

Grade 9

Town Broad Brook

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

Stamford Laurel Springs School Vera Ulanovskaya

6046

Research on Autoimmune Disease Spectrometer (RAD-Spec): A Machine Learning-Based Application for Improving Accessibility to Autoimmune Research

Student(s) Victoria Makarov

Grade 11 Town Stamford

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Senior High CSF Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students \$100

Stamford King School Victoria Schulman

6057

LungSCOPE: A Multimodal Machine Learning-Based Framework for Overall Survival Prediction in Non-Small Cell Lung Cancer

Student(s) Parker Hayashi

Grade 12 Town Riverside

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 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
- * Pepsico Engineering Awards --- Finalist Engineering High School CSF Medallion

2025 Regular Fair Awards

[SchTown] [School] [Teacher]

[Proj#] [Project Title]

Cheshire Cheshire High School Julie Barker

The Design and Development of a Smart and Effective Multi-Device Airline Seatbelt Alert System for Preventing

Turbulence-Related Injuries Using iOT Technology

Student(s) Suchita Srinivasan Grade 11 Town Cheshire

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Senior High CSF Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3

New Haven Wilbur Cross High School Michael Sang

6070 Exploring the Convergence of Juggler Sequences

Student(s) Julian Theodore Grade 11

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

Town New Haven

- * Connecticut Science Fair Association Mathematics Awards --- 3rd Place High School \$100 and Plaque
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place High School \$200 and Plaque, Medallion
- * University of Hartford Scholarships --- University of Hartford Scholarship For Excellence in Engineering or Technology, Grade 11 only \$30,000 (\$7500/year)

Physical Sciences - High School Teams

Greenwich Brunswick School Dana Montanez

Novel use of Beeswax as an Sustainable Medium to Improve the Efficiency and Scalability of Super-Hydrophobic Sponges

in Cleaning up Oceanic Oil Spills

Student(s) George Kapp Grade 11 Town Greenwich

Max Lanson Grade 11 Town New Canaan

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences Senior High Team- \$300 (split) & Plaques
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place HS- \$100, Plaque

South Windsor South Windsor High School Danel Eitel

6501 Watt Box

Student(s) Mason Smith Grade 10 Town South Windsor

Prasun Modi Grade 10 Town South Windsor

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Team- \$200 (split) & Plaques
- * EnergizeCT Future Sustainability Awards --- High School Finalist Medallion
- * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award

Greenwich Brunswick School Dana Montanez

6508 Utilizing Electrodeposition for Marine Coastline Protection: A Sustainable Solution to Combat Erosion

Student(s) Lincoln O'Donohue Grade 11 Town Old Greenwich

Sean Mensi Grade 11 Town Katonah

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place - Physical Sciences Senior High Team - Plaque

2025 Regular Fair Awards

[SchTown]

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[Teacher]

[Proj#]

[Project Title]

Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

Plant infused hydrogel bandage for improved wound care.

Student(s) Kate-Nicole Camotes Grade 11 Town Milford

Abril Garcia-Martinez Grade 11 Town Bridgeport

Leenoy Sahar Grade 11 Town Trumbull

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

Hamden Hall Country Day School Jacob Marchesi

Energy Absorption Efficiency of Various Crumple Zone Materials in Pendulum Impact Tests on Model Cars

Student(s) Frida Ramirez Moreno Grade 10 Town Meriden

Barbara Ramirez Moreno Grade 11 Town Meriden

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Senior Team CSF Medallion
- * Connecticut Association of Physics Teachers --- \$100 Senior project

Windsor The Loomis Chaffee School Larry Brackney

6520 Alternative Drivetrain System for Better Efficiency in FIRST Tech Challenge Robots

Student(s) Emma Chu Grade 11 Town Ludlow
Yejoo Kwon Grade 11 Town Saratoga

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * Pepsico Engineering Awards --- Finalist Engineering High School CSF Medallion

Physical Sciences - Middle School 7th Grade

Wilton Middlebrook School Leah Pariso

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

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

Cheshire St. Bridget School Michelle Carroll

Acids and Rates of Corrosion: Experiments of Acid Rain on Building Materials

Student(s) Benedict Machado Grade 7 Town Hamden

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 7th Grade Ind. - \$150 & trophy

Stonington St. Michael School Anna Grossomanides

Acid Rain: how different materials dissolve in different vinegars

Student(s) Lucy Anderson Grade 7 Town Pawcatuck

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy

2025 Regular Fair Awards

[SchTown] [School] [Teacher]

[Proj#] [Project Title]

Waterbury ACES at Chase Rachel Murray

5015 Analyzing DNA

Student(s) Doreen Cajuste

Grade 7 Town Wolcott

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 7th Grade Ind. trophy
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination MS \$100
- * Demos R Us Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

Montville Puryear Homeschool Mary Puryear

How to Use Windows to Get the Optimal Air Flow in a Room

Student(s) John Puryear

Grade 7 Town Uncasville

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences 7th Grade Individual trophy
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School \$150 Cash and Trophy

Hamden Hall Country Day School Paulomi Aldo

How does dimple patterns affect a golf balls flight?

Student(s) David Esposito

Grade 7 Town North Haven

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences 7th Grade CSF Medallion
- * Talcott Mountain Science Center & Academy --- TMSC Founder's Award Middle School Physical Science Scholarship to one Summer or Saturday Program at TMSC Value \$650

Physical Sciences - Middle School 8th Grade

Greenwich Eastern Middle School Andrew Bramante

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

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

Wilton Middlebrook School Debbie Mallozzi

Bus Notification System with Raspberry Pi

Student(s) Vidit Prabhu

Grade 8 Town Wilton

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 8th Grade Ind. \$150 & trophy
- * Infosys Foundation Computer Science Awards --- 1st Place Middle School \$200, Trophy
- * Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$200 & trophy
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. MS Student in Computing
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention
- * Society of Women Engineers Hartford Section --- Scientific Calculator
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination MS \$100

2025 Regular Fair Awards

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[Project Title]

Greenwich

Western Middle School **Andrew Bramante**

5502

Integration of Photoluminescent Manganese-doped ZnS Nanocrystals

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

Manchester

Saint James School Brianna Hawkins

5520

Why is wool warmer than most fabric?

Student(s) Saanvi Sethi

Grade 8 Town Manchester

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * Arthur & Ruth Mensing Awards --- Mensing Award Excellence in the High School Physical Sciences \$500
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award for excellence in equine studies

Greenwich Central Middle School Andrew Bramante

5513

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

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

5501

Evaluating the Toxicity of Eco-Friendly versus Conventional Laundry Detergent Water Runoff via Analysis of Eisenia Fetida Mortality Kates

Student(s) Zain Haque

Grade 8

Town Riverside

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences 8th Grade - CSF Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion

Greenwich

Central Middle School Andrew Bramante

5504

Highlighting the Prevalence of Microplastics at Tod's Point Through Waste Water and Ocean Currents Using Scanning Electron Microscopy Analysis

Student(s) Carter Henske

Grade 8 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences 8th Grade - CSF Medallion
- Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior

2025 Regular Fair Awards

[SchTown]

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[Project Title]

Physical Sciences - Middle School Teams

Greenwich Sacred Heart Greenwich Mary Musolino

4001 Testing the Strength and Biodegradability of Watermelon Rind and Banana Peel-Based Bioplastics

Student(s) Stephanie Galvez Grade 8 Town Greenwich

Bonnie Ukperaj Grade 8 Town Stamford

Mia Cartagena Grade 8 Town Stamford

Danbury Westside Middle School Academy Nancy Barlow

The Effect of Different Salts in a Water Softener on Calcium in Drinking Water

Student(s)Siddanth RamakrishnanGrade 8Town DanburyPatrick MaddenGrade 8Town DanburyThomas SmithGrade 8Town Danbury

Bozrah Fields Memorial School Joshua Fish

4016 A Study of the Impact of Slope, Materials, and Lubrication on Friction.

Student(s) Elise Kobelski Grade 8 Town Bozrah
Hannah East Grade 8 Town Bozrah
Serena BunkerCai Grade 8 Town Bozrah

- * Connecticut Science Fair Association Mathematics Awards --- 2nd Place Middle School- \$150 and Trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist Medallion
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, \$100 Cash
- * J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences
- * Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award \$250 Cash and Plaque MS

Bridgeport John Winthrop School Srilakshmi Kongani

| 4005 | Don't Quake, Choose the Right Shape!

Student(s) Kyleen Negron Grade 8 Town Bridgeport

Leah Brioso Grade 8 Town Bridgeport

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist Physical Sciences Jr Team CSF Medallions
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * CT Architecture Foundation The William M. Mack, AIA Awards --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Performance.
- * Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award MS \$100
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students \$100

^{*} Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences MS Team- \$200 (split) & trophies

^{*} Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

^{*} Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences MS Team- \$100 (split) & trophies

^{*} Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place Middle School - \$150 and Trophy, Medallion

^{*} Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

^{*} Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences MS Team- trophies

2025 Regular Fair Awards

[SchTown] [School] [Teacher]

[Proj#] [Project Title]

Greenwich Sacred Heart Greenwich Mary Musolino

4009 Advanced Water Purification using Activated Charcoal and Biochar

Student(s) Eliana Antenucci Grade 8 Town SCARSDALE

Mackenzie Malouin Grade 8 Town Rye

Greenwich Sacred Heart Greenwich Mary Musolino Musolino

4020 Using Clay Flocculation to Reduce Harmful Algae Blooms in a Body of Water

Student(s) Vivienne Vanderwilt Grade 8 Town Greenwich

Nora Mulcahy Grade 8 Town RYE

Ariel Almonacy Grade 8 Town Greenwhich

Bethany Amity Middle School Bethany Keith Smolinski

Novel Xylem Water Filter Spigot For Reusable, Universal 5-Gallon Water Jug

Student(s) Alexie Petrov Grade 8 Town Woodbridge
Arshya Senajani Grade 8 Town Woodbridge

^{*} Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions

^{*} Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion

^{*} Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions

^{*} Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion

^{*} Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.

^{*} Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions

^{*} Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion