

# Conn. Science & Engineering Fair Quinnipiac University

March 4 - 16, 2024

# **Top Category Winners**

### **<u>High School Physical Sciences Team</u>**

Jingyuan Zhang

Choate Rosemary Hall

Wallingford

Xiyin Yang

Dylan Karpf

AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies

#### High School Physical Sciences

Meiyin RenWestminster SchoolSimsburyDual-Degree-of-Freedom Pneumatic Shoulder Rehabilitation Device Based on Flexible Materials

#### 8th Grade Physical Sciences

Mikah KaalundCentral Middle SchoolGreenwichThe Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification

#### **<u>7th Grade Physical Sciences</u>**

Greens Farms Academy

Westport

Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars

### Middle School (Grades 7 & 8) Physical Sciences Team

 Rithvik Suren
 Academy of Aerospace and Engineering
 Windsor

 Aarav Chevva
 Combining Optical Wireless Communications (OWC) and Neuromorphic Architecture for Large-Scale Computations

### **High School Life Sciences Team**

Samarth BasanthSouth Windsor High SchoolSouth WindsorTejbir LittMushBox: In Situ Biodegradation of Municipal Solid Waste through Mycoremediation via Mycelium and<br/>Cellulosic Waste Integration

### **High School Life Sciences**

Ashley Malkin

Greenwich High School

Greenwich

Development and In vitro Verification of a Polymersome for Blood-Brain Barrier Transport Through a Novel Machine Learning Model

### 8th Grade Life Sciences

Tyler MalkinCentral Middle SchoolGreenwichDevelopment of a Simple Salivary Rapid Diagnostic for the Detection of Iodine Deficiencies



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## **Top Category Winners**

#### **<u>7th Grade Life Sciences</u>**

Besjana Veliu

ACES at Chase

Waterbury

Reducing Lycorma delicatula, Lantern Fly, Infestation: Using Essential Oils to Address Crop Damage and Food Shortages.

#### Middle School (Grades 7 & 8) Life Sciences Team

Kabir RokkamMiddlebrook SchoolWiltonShushruth BalajiBEAT THE PEAT - RICE HUSK, THE SUSTAINABLE AND ECO-FRIENDLY ALTERNATIVE TO PEAT<br/>MOSS