

CONGRATULATIONS2022 REGENERON STS SCHOLARS & FINALISTS

The

WESTCHESTER COUNTY BOARD OF LEGISLATORS

celebrate

THE 2022 REGENERON SCIENCE TALENT SEARCH SCHOLARS & FINALISTS









Monday, April 11, 2022 | 7:00 p.m. PROGRAM

Welcoming Remarks & Acknowledgements
Chair Catherine Borgia

Video Presentation of Certificates for SCHOLARS and FINALISTS

(see more on back)

Catherine Borgia
Board Chair
Legislator, 9th District

Colin D. Smith Legislator, 1st District

Erika L. Pierce Legislator, 2nd District

Margaret A. Cunzio Minority Leader Legislator, 3rd District

Vedat Gashi Legislator, 4th District

Benjamin Boykin II Legislator, 5th District

Nancy E. Barr

Vice Chair

Legislator, 6th District

Catherine F. Parker Legislator, 7th District

Jewel Williams Johnson Legislator, 8th District

Damon R. Maher Legislator, 10th District

Terry Clements
Legislator, 11th District

MaryJane Shimsky Legislator, 12th District

Tyrae Woodson-Samuels Legislator, 13th District

David J. TubioloLegislator, 14th District

James Nolan
Minority Whip
Legislator, 15th District

Christopher A. Johnson Majority Leader Legislator, 16th District

José I. Alvarado

Majority Whip

Legislator, 17th District



STUDENT AWARD RECIPIENTS, SCHOOLS AND PROJECTS

CHAIR CATHERINE BORGIA - DISTRICT 9

Ossining H.S.: Natalie Calman - Mindfulness-Based Stress Reduction Training Improves the Emotional Well-Being of Adolescents

Rose Cioffi - Chronic Exercise Paired With Immersive Virtual Reality Reduces Stress and Improves Cognitive Performance in

Adolescents

Nyasha Nyoni (FINALIST) - Unhealthy Scrolling: Instagram Influencers Endorse More Unhealthy Food and Beverage Products

Compared to Celebrities

Aaron Song - Elucidating Terrestrial Optical Refrigeration through Transpiration in Rhizophora mangle and Chlorophyll a

Fluorescence in Low-Polarity Mediums

Cameron Takmil - Effects of Virtual Learning on Education: Disparities

VICE CHAIR NANCY E. BARR - DISTRICT 6

Harrison H.S.: Mai Blaustein - Identification of Chemical Contaminants in Spiked Beverages With the Use of Infrared Spectroscopy through

Development of an Inexpensive and Inconspicuous Device to Identify Date Rape Drugs

Katherine Pflieger - The Addition of Functional Groups to the BNM-III-170 Molecule to Improve the Efficiency of its Inhibitory

Abilities by Decreasing the Effectiveness of the CD4 Receptors on the gp-120 Molecule

Keelan Vaswani - Patterns in Cognitive Distortions Among High School Students: An Analysis of How Social and Achievement

Situations Influence Types of Thinking

MINORITY LEADER MARGARET A. CUNZIO - DISTRICT 3

Byram Hills H.S.: Derek Araki-Kurdyla - Elucidating the Role of Environmental Context in Carbon Sequestration and Preservation of Seagrass

Sediment Carbon through Analysis of Sediment Grain Size and Carbon Lability

Edith Bachmann - Tell Me a Story: The Effects of Storytelling vs. Story-Reading on the Executive Functions of Fourth Graders **Sydney Levy** - Revealing the Mechanosensitive-ATP-Purinergic Signaling Pathway that Underlies Fibrosis Resulting From Mitral

Valve Prolapse

Emily Pizzorusso - Color My World: Identifying Differences Between Females and Males in Types and Clusters of Synesthesia

LEGISLATOR ERIKA L. PIERCE - DISTRICT 2

North Salem H.S.: Mark Takken - Transferring Go Al to New Topological Surfaces Without Additional Training

Somers H.S.: Emily Dodd - Altered Homer1b/c and mGluR1/5 Volumes and Colocalization in Parkinson's Disease Linked LRRK2 G2019S Mice

LEGISLATOR VEDAT GASHI - DISTRICT 4

Horace Greeley Anika Puri - ElSa: A Novel Real-Time Wildlife Poacher Detection Solution Leveraging Machine Learning-Driven Spatio-Temporal

H.S.: Analysis of Nighttime UAV Thermal Infrared Videos

LEGISLATOR BEN BOYKIN, II - DISTRICT 5

Scarsdale H.S.: Armaan Ahmed - Design of a SHERLOCK-Based Low Resource Screening Assay for HIV-1 Drug Resistance

LEGISLATOR CATHERINE F. PARKER - DISTRICT 7

Rye H.S.: Maggie Graseck - Oysters and Crabs: Comparing the Eating Habits of Hemigrapsus sanguineus and Panopeus herbstii

Mamaroneck H.S.: Jerry Orans - Development of a Multi-Terrain RHex Leg for Swimming, Running, and Climbing

LEGISLATOR DAMON R. MAHER - DISTRICT 10

Eastchester H.S.: Riley Keating - Simulating the Impacts of Climate Change on Hurricanes Using the Columbia Hazard (CHAZ) Model

Ava Tsapatsaris - Project ScanVan: Mobile Mammography Services to Decrease Socioeconomic Barriers and Racial Disparities

Among Medically Underserved Women in New York City

LEGISLATOR TERRY CLEMENTS - DISTRICT 11

Pelham Memorial Andrew Kelly - The Purification of Oleic Acid and the Effect of Oleic Acid Purity on the Size of CdSe Nanocrystals

H.S.: Ann Liu - Investigating Strategies for Retinal Regeneration in Mammals via a Meta-Analysis of Single-Cell RNA Sequencing

Datasets

LEGISLATOR MARYJANE SHIMSKY - DISTRICT 12

Hastings H.S.: Oliver Walsh Fuchs - Examining the Associations Between Historical Redlining Maps and Asthma Emergency Department Visits

Across New York City

Edgemont H.S.: Nishi Uppuluri - Developing the Writing Skills of Elementary Schoolers Using Computational Linguistics Techniques

Irvington H.S.: Brooke Anne Dunefsky (FINALIST) - A Novel Device that Utilizes Neuroplasticity for the Rehabilitation of Stroke Victims