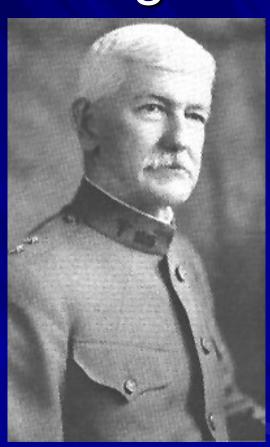


# William Crawford Gorgas Scholarship Competition Finalists

# William Crawford Gorgas

Seventy-eight years ago, in 1947, a committee of the AAS and Alabama Chamber of Commerce met to set up the rules for the Gorgas Competition.

His application of sanitary measures eliminated yellow fever as a blight on the health of the people of the world and made possible the construction of the Panama Canal



1854-1920 Surgeon General, U.S. Army

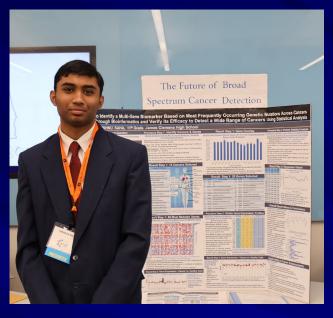
Alabama Hall of Fame

The original charter describes these young scientists we honor here tonight as follows:

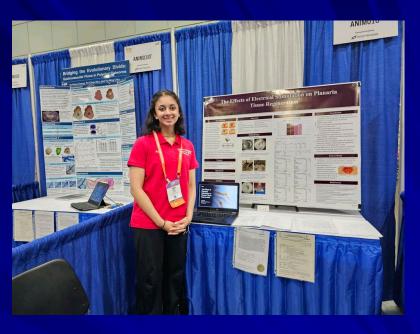
You are among those

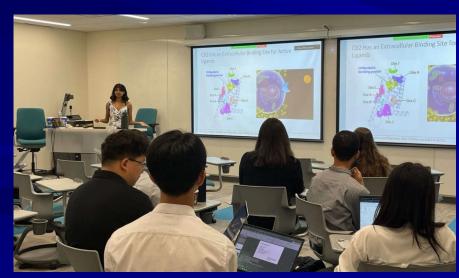
who possess more than ordinary scientific skill,
who indicate uncommon creative talent, and
who upon reaching maturity it is hoped will have,
like General Gorgas, capacity for leadership,

patience to overcome ignorance,
courage to resist ridicule,
conviction based on truth,
persistence to overcome obstacles to progress,
and stick-to-it-ive-ness to carry on a great work
whenever a noble cause is to be served.













Squirm and Burn: Testing pre-Workout on Worms

**James Abrams** 

Wetumpka High School, Wetumpka



The Effects of Electrical Stimulation on Planaria Tissue Regeneration

### **Ashu Anand**



Computational Prediction of Nonabine as a Novel CB2 Agonist

# Rhea Arya

**Loveless Academic Magnet Program (LAMP) High School, Montgomery** 



Machine-Learning-Driven
Discovery of Novel Acoustic
Metamaterials for Broadband
Noise Mitigation

## Will Bao

**Auburn High School, Auburn** 



Localization of
Frontotemporal Dementia
Risk Gene RAB38 to
Glutamatergic Neurons:
Implications for Selective
Neuronal Vulnerability

#### **Aanchal Behara**



An Introspection on the Meat Industry and Finding Alternatives

John Belew

Wetumpka High School, Wetumpka



A Comparative Analysis of the Inhibitory Effects of Eucalyptus and Tea Tree Essential Oils on Bacillus cereus Growth Compared to vancomycin

Jessica French

**Murphy High School, Mobile** 



Effects of Increasing Humidity and Temperature of Growth and CO2 Production in Echinacea purpurea

#### **Esha Patel**

Alabama School of Math and Science, Mobile



Laser Excited Atomic
Fluorescence Spectroscopy for
Detection of Heavy Metals Cd,
As, Mn Using Mid-IR Rare-Earth
Solid State Lasers and Raman
Crystals

# Srihansi Sagi



To Identify a Multi-Gene
Biomarker Based on Most
Frequently Occurring Genetic
Mutations Across Cancers
Through Bioinformatics and
Verify its Efficacy to Detect a
Broad Range of Cancers Using
Statistical Analysis

Sahishnu Saha

**James Clemons High School, Madison** 



Impact of Environmental Cadmium Exposure of Efferocytosis in Alveolar Macrophages

### Prisha Sharma



Upcycling Plastic, What to do about one of the worlds greatest pollutants

Lillian Vilardi

Wetumpka High School, Wetumpka



Intelligent IoT-Driven
Medication Dispenser with
Predictive Machine Learning
Algorithm for Enhanced Senior
Care

**Edwin Wu** 

**Montgomery Academy, Montgomery** 

David Boone, Loveless Academic Magnet Program High School
Hungsin Chin, Alabama School of Fine Arts
Jacque Middleton, Auburn High School
Natalie Ortell, Alabama School of Math and Science
Julie Prerost, Murphy High School
Jay Rye, Montgomery Academy
Virginia Vilardi, Wetumpka High School
Kathryn Weir, James Clemens High School
Dreama White, Alabama School of Fine Arts

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