# MA Region VI/Boston Public Schools Citywide Science & Engineering Fair
## High School (Senior) Division

## Christa McAuliffe Grand Prize Award

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|---|---|---|
| Alice Liu | Quantum Support Vector Machines (QSVMs) for Breast Cancer Detection on IBM's Hardware | Boston Latin |

## First Place Senior Division (Projects)

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|---|---|---|
| Alexander Ajouri | IR Thermometers: Optimizing the Degree of Accuracy through the Inspection of Energy Transfer | Boston Latin School |
| Lena Tran | Are you experiencing a muffled voice, or having trouble hearing? What mask is the most effective for sound projection? | Boston Latin School |
| Mathena Nguyen | Are you experiencing a muffled voice, or having trouble hearing? What mask is the most effective for sound projection? | Boston Latin School |
| Zachary Chen | IR Thermometers: Optimizing the Degree of Accuracy through the Inspection of Energy Transfer | Boston Latin School |

## Second Place Senior Division (Projects)

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| Emma Lu | Epigenetic Change of Escherichia coli Due Stress from Environmental Nitrogen Concentrations | Boston Latin |
| TIM NGUYEN | Modeling and Predicting the Traffic Patterns at BLS | Boston Latin |

## Third Place Senior Division (Projects)

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| Darren Seto | Characterizing Cardiovascular Disease-Associated Single-Nucleotide Polymorphisms (SNPs) with CRISPR Base Editor | Boston Latin |
| Feven Lilay | How does slope affect velocity? | O'Bryant, John D. School of Mathematics & Science |
| Jazmin Cruz | How does slope affect velocity? | O'Bryant, John D. School of Mathematics & Science |
| MANUELA Rios Castaneda | Eyewitness Testimony | Boston Latin School |
| Ysimar Brea Estrella | How does slope affect velocity? | O'Bryant, John D. School of Mathematics & Science |

## Honorable Mention Senior Division (Projects)

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|---|---|---|
| Briana West | Hot Wheels Energy | O'Bryant, John D. School of Mathematics & Science |
| Katherine Esteban | Hot Wheels Energy | O'Bryant, John D. School of Mathematics & Science |
| Lauren Johnson | Hot Wheels Energy | O'Bryant, John D. School of Mathematics & Science |
| Quaron Wiggins | Hot wheels tacks and marbles | O'Bryant, John D. School of Mathematics & Science |
| SHENY FOSTER | Covid - 19 Cases and Deaths per state | O'Bryant, John D. School of Mathematics & Science |

## Sanofi Speciality Care Grand Prize

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|---|---|---|
| Alice Liu | Quantum Support Vector Machines (QSVMs) for Breast Cancer Detection on IBM's Hardware | Boston Latin |

## Sanofi Speciality Care Award

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|---|---|---|
| Alexander Ajouri | IR Thermometers: Optimizing the Degree of Accuracy through the Inspection of Energy Transfer | Boston Latin School |
| Lena Tran | Are you experiencing a muffled voice, or having trouble hearing? What mask is the most effective for sound projection? | Boston Latin School |
| Mathena Nguyen | Are you experiencing a muffled voice, or having trouble hearing? What mask is the most effective for sound projection? | Boston Latin School |
| Zachary Chen | IR Thermometers: Optimizing the Degree of Accuracy through the Inspection of Energy Transfer | Boston Latin School |

## Society of Microbiology

| | | |
|---|---|---|
| Darren Seto | Characterizing Cardiovascular Disease-Associated Single-Nucleotide Polymorphisms (SNPs) with CRISPR Base Editor | Boston Latin |
| Emma Lu | Epigenetic Change of Escherichia coli Due Stress from Environmental Nitrogen Concentrations | Boston Latin |