

MSEF 2023
Senior Division
Category Awards



Place	Category	Student	Student	Grade	School	Title
1	Animal Sciences	Charlotte	Carmen	12	Zoo Academy	Comparing Specific Gravity to Urinary Creatinine When Indexing Hormones in Giraffa reticulata and Rhinoceros unicornis
2	Animal Sciences	Arehant		11	Millard North High	Impact of Short Exposure to High Temperature on the Immune Response in the Burying Beetle Nicrophorus tomentosus
3	Animal Sciences	Aleena		10	Omaha Central High	Effects of Rising CO2 Levels on Shell Development of Lymnaea stagnalis
1	Behavioral & Social Sciences	Jaylin		12	UNMC High School Alliance	Teaching Immediate and Delayed Peer Imitation to Toddlers with Autism Spectrum Disorder Using a Video/ Modeling Treatment Package
2	Behavioral & Social Sciences	Cody	Joseph	11	Zoo Academy	The Effect UV Light Has on Migrating Birds
3	Biomedical & Health Sciences	Olive		11	Zoo Academy	Effect of Food Eaten on Mood
1	Biomedical & Health Science	Anuj		10	Millard North High	PYCR2: A Novel Regulator of Metabolic Reprogramming in Cancer Cells
2	Biomedical & Health Science	Partha		9	Millard North High	Anti-cancer Effects of Curcumin in MYC-driven Medulloblastoma Cells
3	Cellular & Molecular Science	Reema		11	Millard North High	The Effect of Alcohol on Potentiating HIV-mediated Neuroinflammation
1	Cellular & Molecular Biology	Mackenzie		12	Omaha Central High	Analysis of Bacterial Growth and Gene Expression in the Presence of glmS Riboswitch Ligand Analogs
2	Cellular & Molecular Biology	Isabella		12	Omaha Central High	Does NF- κ B Play a Role in the Regulation of TRPV1 Enhancement After LPS-TLR4 Signaling?
3	Cellular & Molecular Biology	Rayya		12	Omaha Central High	Lactase and Milk Spoilage

1	Materials Science	Azriel		12	Omaha North High	Exploring Metal-Complexes as Colorants for Additively Manufactured Silica Glass
2	Materials Science	Olivia		12	Omaha Central High	The Effect of Eisenia fetida on the Decomposition Rate of Household Waste
1	Microbiology	Sophia	Madeline	12	Omaha North & Central	Kinetics of Novel Mycobacterium Tuberculosis Inhibitors
2	Microbiology	Legacy		11	Omaha North High	The Characterization of Collaborative Function inc Proteins Ct224 and Ct225
3	Microbiology	Mara		12	Omaha Central High	The Effectiveness of Antibiotics on the Growth of Bacteria in Contaminated Makeup
1	Physics & Engineering	Charles		12	Omaha Central High	The Effects of Temperature on the Kinetics of the Belousov-Zhabotinsky Reaction
2	Physics & Engineering	Edgar		11	UNMC High School Alliance	Hardware Interfacing using LabVIEW
1	Plant Sciences	Bailey	Lauren	11	Zoo Academy Omaha Central	Effects of Natural Fertilizers in Bioplastics on Soil Quality
2	Plant Sciences	Elliot		12	High	Grass Growth with Varying Salt Water Concentrations
3	Plant Sciences	Savannah		12	Zoo Academy	Chlorella vulgaris as a Potential Biofuel Compared to Nannochloropsis and Porphyridium cruentum
1	Translational Medical Sciences	Nayera		12	Omaha North High	Metabolic Imaging by NAD(P)H Phasor FLIM to Analyze Impact of HER2 Expression and Hypoxic Culture Conditions Across Multiple Cancer Cell Lines
2	Translational Medical Sciences	Maleyna		12	Omaha Central High	Effects of Immunity Boosting Herbal Supplements on Heart Rate of Danio rerio
3	Translational Medical Sciences	Amritasha		12	UNMC High School Alliance	Synthesis of Long Acting Antiretroviral Therapy Formulations