12:45PM - Check-in

1:00PM - Opening Remarks
  Ritish Patnaik
  CUSJ Events Vice President

1:10PM - Poster Session I
  Matthew Trendowski
  Naureen Ghani
  Kristof Toth
  Ajay Kashi
  Yiran Chen
  Hyo Jung Shin
  Edwin Garcia
  Brian Um
  Yueli Chen
  Yueting Chen
  Prithviraj M. Rajebhosale

2:00PM – Intermission

2:10PM – Poster Session II
  Moses Stephen
  Weiwu Li
  Andrew Perez & Landen Kwan
  Sandy Enriquez
  Ugur Sezer
  Daysi Proano
  Miryam Peralta
  Junghoon Kim
  Christine Wang
  Eun Jung Shin & Jihyun Lee
  Ester Shin

3:00PM – Closing Remarks
  Zahra Bhaiwala
  CUSJ Undergraduate Editor-in-Chief

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POSTER SESSION I

The Promise of Sonodynamic Therapy: Using Ultrasound Irradiation and Chemotherapeutic Agents as a Treatment Modality
Matthew Trendovsky1, Thomas P. Fondu1
1Department of Biology, Syracuse University, Syracuse, NY

Classification of Neocortical Neurons using Unsupervised Learning Methods
Naureen Ghani1, Rafael Yuste2
1Department of Biomedical Engineering, Columbia University, New York, NY; 2Department of Biological Sciences, Kavli Institute for Brain Science, Columbia University, New York, NY

Oxidation Induced Giant Unilamellar Vesicle Formation during Electroformation
Kristof Toth1, Shalinee Sankhagowit1, Noah Malmsstad1
1The Cooper Union for the Advancement of Science and Art, New York, NY; 2Mork Family Department of Chemical Engineering and Material Science, University of Southern California, Los Angeles, CA

Characterization of Microwave Plasma in Chemical Vapor Deposition
Ayaj Kash1, Kevin Chen1,3
1Experimental Research and Design Program, Watchung Hills Regional High School, Warren NJ; 2Department of Physics and Astronomy, Rutgers University, Piscataway NJ; 3Johns Hopkins University, Baltimore MD

New York City’s Waste Water and Sewage Treatment by the Environmental Protection Agency
Hyo Jung Shin1, Moses Stephen1, Eun Jung Shin1, German Patino2, Jihyun Lee2
1Department of Chemistry, Queensborough Community College, Bayside, NY; 2Office of Academic Affairs, York College, Jamaica, NY

Mobile Autonomous Robot based on a Raspberry Pi Board
Edwin Garcia1, John Buonocora1
1Department of Engineering Technology, Queensborough Community College, Bayside, NY

The Use of the QuEChERS Approach in the Extraction of Pesticides from Imported Fresh Fruits and Vegetables
Brian Um1, Dr. Keeshan Williams1, Michael Iorsh1, Moses Stephen1
1Department of Chemistry, Queensborough Community College, Bayside, NY; 2Department of Food and Drug Administration, Jamaica, NY

Synthesis and Characterization of Li6LaZr2TaO12 (0< x<1) Lithium Ion Conductors
Yue Li1, Nicole Yu1, Heera Choe1, Steve Greenbaum2, Paul Sideris1
1Department of Chemistry, CUNY Queensborough Community College, Bayside, NY; 2Department of Physics and Astronomy, CUNY Hunter College, New York, NY

Slp1 is a key component controlling early cardiogenesis in Drosophila
Yueting Chen1, Kyle Toles1, Paris Svoronos1, Yasuno Iwasaki1, J. Peter Gergen1
1Department of Biochemistry and Cell Biology & Center for Developmental Genetics, Stony Brook University, Stony Brook, NY; 2Chemistry Department, Queensborough Community College, Bayside, NY

"Neoreregulating" Transcription Studying the Mechanism of Type III Neuregulin1 ICD Mediated Back-Signaling on Transcriptional Control
P M Rajebohosal1, L W Role3,4, D A Talmage5,6
1Undergraduate Program in Pharmacology, Stony Brook University, Stony Brook, NY; 2Center for Nervous System Disorders Research, Stony Brook University, Stony Brook, NY; 3Department of Neurobiology & Behavior, Stony Brook University, Stony Brook, NY; 4Department of Neurosciences Institute, Stony Brook University, Stony Brook, NY; 5Department of Pharmacology, Stony Brook University, Stony Brook, NY

POSTER SESSION II

Porous Microspheres of Poly(o-toluidine): Understanding Sphere Formation and Improving Dispersibility
Moses Stephen1, David M. Samo1
1Department of Chemistry, Queensborough Community College, Bayside, NY

Screening the Saccharomyces cerevisiae genomic library for genes involved in copper induced cell death
Weiwei Li1, Nidhi Gadara1
1Department of Biology, Queensborough Community College, Bayside, NY

Hydrogen Fuel Cell Catalyst
Andrew R Perez1, Landen Kwan1, Lee Park1
1Department of Engineering Technology, Queensborough Community College, Bayside, NY

The Determination of Gallic Acid present in Juice and Tea Beverages using High Performance Liquid Chromatography
Sandy Enriquez1, Soraya Svoronos1, Pedro Irgoyen1, Paris Svoronos1
1Department of Chemistry, Queensborough Community College, Bayside, NY

Controlling the Industrial Heavy Metal Pollutants’ Discharge into New York City’s Wastewater through the Industrial Pretreatment Program (IPP) of the NYC Department of Environmental Protection (NYC-DEP)
Daisy Proano1, Miriam Peralta1, Paris Svoronos1, Faye Jacques1, Jorge Villacis1, Carol Troy1, Panayiotis Meleties1
1Department of Chemistry, Queensborough Community College, Bayside, NY; 2NYC-DEP, Wastewater Treatment Plant, Wards Island New York, NY; 3Office of Academic Affairs, York College, Jamaica, NY

Microspectrophotometric Determination of the Total Amount of Antioxidants in Juice Beverages by the Folin Ciocalteau Method
Miriam Peralta, Daisy Proano, Sandy Enriquez, Paris Svoronos, Pedro Irgoyen, Soraya Svoronos
1Department of Chemistry, Queensborough Community College Bayside, NY

Dampening of Back-Propagating Action Potentials in Dendritic Spines Quantified via Voltage Imaging
Junghoon Kim1, Masayuki Sakamoto1, Yeonsook Shin1, Rafael Yuste1
1Columbia College, Columbia University, New York, NY; 2Department of Biological Sciences, Columbia University, New York, NY; 3HHMI, Department of Biological Sciences, Kavli Institute for Brain Science, Columbia University New York, NY

Effect of facudill on glioma cells
Christine Wang1, Benjamin Amendolara1, Thanassi Dovas2, Peter Carroll2,3
1Columbia College, Columbia University, New York, NY; 2HHMI, Department of Biological Sciences, Kavli Institute for Brain Science, Columbia University New York, NY; 3Department of Cell Biology and Pathology, Columbia University, New York, NY

Temperature Dependence of Refractive Index of Water and Alcohol Compounds Determined by a Laser Pointer: Simple and Cost Effective System
Eun Jung Shin1, Jihyun Lee1, Jun H. Shin1
1Department of Chemistry, Queensborough Community College, Bayside, NY

The Refractive Index of Solid Ionic Compound Measured by the Zoom-In Method and the Extension Method
Esther J. Shin1, Ruth Kim2, Jun H. Shin1
1Roslyn High School, Roslyn Heights, NY; 2Department of Chemistry, University of California at Berkeley, Berkeley, CA; 3Department of Chemistry, Queensborough Community College, Bayside, NY