Matthew Del Ciello (with Mazen Tolaymat) The Effects of Nutrient and Light Environments on Defensive Chemistry in Ben Benjamin Kavain
Mentor: Dr. Jemmy Teissèrè
Funded by: Sentience Foundation and Merck/AAAS

Jonathan Ben Benjamin
Transverse energy at RHIC in the Forward/Backward Directions using the PHENIX Muon Pistol Calorimeter
Mentor: Dr. Brett Fadem
Funded by: National Science Foundation PHy 08-55762

Jennifer Bleznak
The Effects of Pollution on Neurological Responses to Plant Odors in Bombus impatiens
Mentor: Dr. Jordanna Sprayberry
Funded by: Sentience Foundation

Jennifer Bleznak
Predicting Disease Recurrence in Breast Cancer Patients: A Comparison of Sentinel Lymph Node Biopsy and Axillary Node Dissection
Mentors: Dr. Jeremy Teissére and Dr. Aaron Bleznak
Funded by: Lehigh Valley Health Network

Johanna Block (with Caitlin Burgdorf)
The Effects of Cycloheximide on Linked Memories
Mentor: Dr. Gretchin Gotthard
Funded by: The Sentience Foundation and the Neuroscience Collaborative Research Program

Jason Boulter
Investigation of the Allopregnanolone Binding Site on the GABA$_a$ Receptor
Mentor: Dr. Jeremy Teissére
Funded by: Student and Faculty Collaboration Grant from Provost

Alex Breiding
Expression and function of the C. elegans nuclear hormone receptor nhr-239
Mentor: Dr. Bruce Wightman
Funded by: National Science Foundation

Ashley Brewer (with Samir Patel)
Cell Culture Media Characterization with Gas Chromatography-Mass Spectrometry
Mentor: Dr. Christine Ingersoll
Funded by: Johnson & Johnson

Caitlin Burgdorf (with Johanna Block)
The Effects of Cycloheximide on Linked Memories
Mentor: Dr. Gretchin Gotthard
Funded by: The Sentience Foundation and the Neuroscience Collaborative Research Program

Kyle Coupe
Evolution and Theoretical Underpinnings of Molecular Visual Representations in X-ray Crystallography
Mentor: Dr. Jeremy Teissére
Funded by: Sentience Foundation

Matthew Del Ciello (with Mazen Tolaymat)
The Effects of Nutrient and Light Environments on Defensive Chemistry in Lindera benzoin
Mentors: Dr. Christine Ingersoll and Dr. Richard Niesenbaum
Funded by: Merck-AAAS and NSF-CRUI

Thomas Flatley
Synthesis of Chiral Ligands for Asymmetric Heck Reactions from (3R,3’R)-Myrtalen
Mentor: Dr. Charles Russell
Funded: REBCS

David Paul Gasalberti
Effects of Volatile Anaesthetics on the Conformational Dynamics of Ionotropic GluR2 Channels
Mentor: Dr. Jennifer Chen Lee
Funded by: NIH Intramural Research Training Award (IRTA)

Nicholas Gidosh
Synthesizing a Chiral Ligand from (-)-Menthone for the Heck Reaction
Mentor: Dr. Charles Russell
Funded by: REBCS

Christine Gleave
Discovery of a New Nickel-Catalyst for Chain-Growth Polymerizations
Mentor: Dr. Anne McNeil, University of Michigan
Funded by: National Science Foundation Research Experience for Undergraduates

Sam Gotteim
The Generation and Study of Cyclic Polyynes
Mentor: Dr. Bruce Anderson
Funded by: Muhlenberg Summer Research Grant

Cory Hackmyer (with Demetrai Tate)
The Short and Long Term Effects of the Beta-Blocker Propanolol on Memory in an Animal Model of Post Traumatic Stress Disorder
Mentor: Dr. Gretchin Gotthard
Funded by: Provost’s Grant for Faculty-Student Collaboration

Caitlin Harper
Study of the Helicity dependent parton densities for the electron-ion collider
Mentor: Dr. Brett Fadem
Funded by: National Science Foundation PHY-0855762

Jake Herb
Accurate Optical Modeling for OPV Device Performance
Mentor: Dr. Lee Richter
Funded by: The National Institute of Standards and Technology

Scott Kanner
Na$^+/K^+$ Pump and Na$^+$/Ca$^{2+}$ Exchanger as Components of the KATP Channel Macromolecular Complex
Mentor: Dr. William A. Coetzee
Funded by: National Institutes of Health

Benjamin Liebov (with Brendan Phelan)
δ$_6$ Complexes of Chiral C2-Symmetric Tetraamines as Potential Enantioselective Dearomatization Agents
Mentor: Dr. Joseph Keane
Funded by: REBCS

Matthew May (with Cody Barker)
Assessing the Potentiation of the GABA$_a$ Receptor by the Kavain
Mentor: Dr. Jemmy Teissèrè
Funded by: REBCS

Steven Motchwiller (with Lauren Ryan)
LED Monitoring System of the Phenix Muon Pistol Calorimeter
Mentors: Dr. Brett Fadem
Funded by: National Science Foundation

Amanda Meier
Among Plant Differences in Volatile Chemistry in Lindera benzoin: Are There Different Phenotypes of Scent?
Mentor: Dr. Richard Niesenbaum
Funded by: The John E. Trainee Field Summer research award and NSF-CRUI

Andrew Nederlof
Probing the Source of Proton Spin with the PHENIX Muon Trigger Upgrade
Mentor: Dr. Brett Fadem
Funded by: National Science Foundation PHY-0855762 and MRI 05-21542

Caitlin Norcross
Synthesis of a Fluorescing Lead-Specific Cryptand
Mentor: Dr. Marsha Baar
Funded by: Dean’s Summer Research Grant

Samir Patel (with Ashley Brewer)
Cell Culture Media Characterization with Gas Chromatography-Mass Spectrometry
Mentor: Dr. Christine Ingersoll
Funded by: National Science Foundation PHY-0855762 and MRI 05-21542

Brendan Phelan (with Benjamin Liebov)
δ$_6$ Complexes of Chiral C2-Symmetric Tetraamines as Potential Enantioselective Dearomatization Agents
Mentor: Dr. Joseph Keane
Funded by: REBCS

Lauren Ploppo (with Tara Tappen)
Function and regulation of the C. elegans nuclear hormone receptor nhr-67
Mentor: Dr. Bruce Wightman
Funded by: National Science Foundation

Shelagh M. Pousatis
Head appendage development in larval Streblospio benedicti
Mentor: Dr. Elizabeth McCain
Funded by: The Dr. James R. Vaughan ’52 Student Research Award in Biology
This poster session was a culmination of each student's summer work. All of the students are pleased to have this opportunity to present their research and answer any questions you may have.

Each on-campus summer science research student was awarded an 8-10 week stipend supported by one of several grants. Most grants also provided funds for the purchase of supplies and/or small pieces of equipment to support each student's research project. The College generously provided free dorm housing and one course credit.