### Posters Registered for SciFest VI, August 4, 2016  
*(preliminary titles, organized by funding program)*

<table>
<thead>
<tr>
<th>Student Presenter</th>
<th>Poster #</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Independent / Lab-Funded</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Johnson Agyapong (Brandeis / Biology)</td>
<td>2016.695</td>
<td>Preparation of Polyaniline/Gold film.</td>
</tr>
<tr>
<td>Ji Eun Bae (Brandeis / Biology)</td>
<td>2016.671</td>
<td>Looking at DNA double-helix breaks and repair induced by Cas9 on the CAN1 gene of E. coli</td>
</tr>
<tr>
<td>Hannah Bernstein (Brandeis / Biology, Chemistry)</td>
<td>2016.707</td>
<td>Determining Selectivity in Bacterial IMPDH Inhibitor Sensitivity</td>
</tr>
<tr>
<td>Laura Bonvini (Brandeis / Chemistry)</td>
<td>2016.665</td>
<td>Analysis of alpha-synuclein oligomers in human brain tissue</td>
</tr>
<tr>
<td>Billy Chau (Brandeis / Biological Physics)</td>
<td>2016.644</td>
<td>Tuning the phase transition of nano-sized rods</td>
</tr>
<tr>
<td>SoJin Chon (Brandeis / Biology)</td>
<td>2016.655</td>
<td>Insights from a bacterial diet: How studying terpene metabolizing bacteria plays a part in forest blight prevention</td>
</tr>
<tr>
<td>Abigail Daniels (Brandeis / Biology)</td>
<td>2016.632</td>
<td>Neural circuit control of physiological homeostasis</td>
</tr>
<tr>
<td>Katherine Dorfman (Brandeis)</td>
<td>2016.638</td>
<td>Mortality in let 7 mutant flies</td>
</tr>
<tr>
<td>Yihao Zhuang, Phillix Esquea (Brandeis / Biochemistry)</td>
<td>2016.710</td>
<td>Isolating p450 gene from wild bacteria</td>
</tr>
<tr>
<td>Brian Gzemski (Brandeis / Biochemistry)</td>
<td>2016.650</td>
<td>Using Molecular Dynamics to Design a Ligand-Specific Mutation in Hsp90</td>
</tr>
<tr>
<td>Radhika Jangi (Brandeis / Biochemistry)</td>
<td>2016.705</td>
<td>Examining Rare Codon Clusters in Hsp90</td>
</tr>
<tr>
<td>Yujie Jiang (Brandeis / Chemistry)</td>
<td>2016.635</td>
<td>Enzyme-Regulated Supramolecular Assemblies of Cholesterol Conjugates against Drug-Resistant Ovarian Cancer Cells</td>
</tr>
<tr>
<td>Hannah Kilcoyne (Brandeis / Biology)</td>
<td>2016.670</td>
<td>Quantitative analysis of prolonged sedation management of full-term infants less than 1 year old.</td>
</tr>
<tr>
<td>David Landesman (Brandeis / Biology, Neuroscience)</td>
<td>2016.692</td>
<td>Carbon Fiber Electrode Bundles for Dense Recordings of Neural Circuits</td>
</tr>
<tr>
<td>Krishna Narayanan (Brandeis / Chemical Biology)</td>
<td>2016.645</td>
<td>D620N and APPLCRISP: Models for APP Exosomes in Drosophila melanogaster</td>
</tr>
<tr>
<td>Robin Schectman (Brandeis / Biology)</td>
<td>2016.636</td>
<td>Homeostatic changes in gene expression and axonal morphology in response to network activity deprivation</td>
</tr>
<tr>
<td>Heather Schiller (Brandeis / Biology)</td>
<td>2016.688</td>
<td>Identifying Naegleria in isolates from bird bath samples using the mitochondrial CO1 sequence</td>
</tr>
<tr>
<td>Avinoam Singer (Brandeis / Biochemistry)</td>
<td>2016.608</td>
<td>Elucidating the structural basis by which substrate proteins activate Hsp90</td>
</tr>
<tr>
<td>Isabel Smith (Brandeis / Biology)</td>
<td>2016.675</td>
<td>Investigating the role of the small GTPase Rem2 in a PTZ seizure model</td>
</tr>
<tr>
<td>Karen Wang (Emory University / Biology)</td>
<td>2016.691</td>
<td>Evaluating the pH and salt dependence on the rate of ATP hydrolysis in Trap1 protein</td>
</tr>
<tr>
<td>Student Presenter</td>
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<tr>
<td><strong>Student Presenter</strong></td>
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<tr>
<td><strong>Michael Wang</strong></td>
<td>2016.703</td>
<td>Investigating the period and timeless protein profile in circadian clock mutants</td>
</tr>
<tr>
<td><strong>Everett Weber</strong></td>
<td>2016.711</td>
<td>Time Dependency in the Limiting Pool Mechanism</td>
</tr>
<tr>
<td><strong>Helen Yang</strong></td>
<td>2016.631</td>
<td>Phase diagram and temperature transition of flagella</td>
</tr>
<tr>
<td>zhongrui zhang</td>
<td>2016.658</td>
<td>mTORC1 Signaling Inhibitor Cbz-Boc3-Arginine Interacts with Ubiquilin</td>
</tr>
<tr>
<td><strong>Alt Fellow</strong></td>
<td>2016.628</td>
<td>The Role of PlexinB Receptors in Synapse Formation</td>
</tr>
<tr>
<td><strong>Bauer Fellowship</strong></td>
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<tr>
<td><strong>Aaron Ammerman</strong></td>
<td>2016.651</td>
<td>Spectral Tuning of an Opsin-Guanylyl Cyclase Fusion Protein for Optogenetic Use</td>
</tr>
<tr>
<td><strong>Remi Boros</strong></td>
<td>2016.624</td>
<td>Driving Chaos Off the Grid - Training Networks in Microfluidic Lattices of Chemical Oscillators</td>
</tr>
<tr>
<td><strong>Emily Cohen</strong></td>
<td>2016.674</td>
<td>Investigating the effect of self-paced listening on the relationship between hearing acuity and speech recall</td>
</tr>
<tr>
<td><strong>Megan Leubner</strong></td>
<td>2016.639</td>
<td>The Molecular Basis of Memory: Calcium-calmodulin-dependent protein kinase II (CaMKII) is necessary for the maintenance of long-term potentiation and behavioral memory</td>
</tr>
<tr>
<td><strong>Sarah Lipitz</strong></td>
<td>2016.625</td>
<td>Age-Related Differences in Recruiting the Medial Prefrontal Cortex During Self-Referential Encoding</td>
</tr>
<tr>
<td><strong>Elon Mathieson</strong></td>
<td>2016.690</td>
<td>Tasty Place Cells; Multimodality in the Hippocampus</td>
</tr>
<tr>
<td><strong>Tamar Parmet</strong></td>
<td>2016.606</td>
<td>The neurobiology of the impact of innocuous experience on later learning</td>
</tr>
<tr>
<td><strong>Bethany Rennich</strong></td>
<td>2016.652</td>
<td>Investigation of Surf2 and Neuronal Pentraxin 2 in the context of conditioned taste aversion</td>
</tr>
<tr>
<td><strong>Ayantu Temesgen</strong></td>
<td>2016.676</td>
<td>A note from Millennial Kinases to The Lost Generation: &quot;You had it easier&quot;</td>
</tr>
<tr>
<td><strong>Zhiheng Wang</strong></td>
<td>2016.660</td>
<td>Rhythmic release of an anti-depressant by an enzymatic system</td>
</tr>
<tr>
<td><strong>Biochemistry Dept</strong></td>
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<tr>
<td><strong>Jair Flores</strong></td>
<td>2016.698</td>
<td>Understanding the Evolution of Circadian Rhythm in Cyanobacteria by KaiABC Protein Complexes</td>
</tr>
<tr>
<td><strong>Kamsi Odinammadu</strong></td>
<td>2016.681</td>
<td>The Role of Rho-GC in C.elegans</td>
</tr>
<tr>
<td>Student Presenter</td>
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<tr>
<td><strong>Brandeis India Science Scholar</strong></td>
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<tr>
<td>Shubham Singh (Indian Institute of Science / Physics)</td>
<td>2016.704</td>
<td>Modeling fluctuation driven interaction between colloidal rafts</td>
</tr>
<tr>
<td>Motilal Uttarkabat (Indian Institute of Science / Biology)</td>
<td>2016.708</td>
<td>Mycobacterium tuberculosis IMPDH enzyme</td>
</tr>
<tr>
<td><strong>Cell and Molecular Visualization REU</strong></td>
<td></td>
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<tr>
<td>Alex Cuadros (University of Massachusetts Amherst / Biochemistry)</td>
<td>2016.614</td>
<td>Elucidating Mechanisms of Inhibitor Selectivity on Acinetobacter baumannii IMP Dehydrogenase</td>
</tr>
<tr>
<td>Natalie Harris (University of Maryland Baltimore County / Biochemistry)</td>
<td>2016.684</td>
<td>Role of tryptophans residues in UV sensitive opsin fusion proteins</td>
</tr>
<tr>
<td>Stephanie Howes (Umass Lowell / Biotechnology )</td>
<td>2016.657</td>
<td>The Effects of Point Mutations in the globular domains of histones 3 and 4 on double strand break repair</td>
</tr>
<tr>
<td>Sofia Lavrentyeva (Brandeis / Neuroscience)</td>
<td>2016.641</td>
<td>Characterizing the role of GRDN-1 in regulating neuronal morphology</td>
</tr>
<tr>
<td>Felicia Lee (Brandeis / Neuroscience, HSSP)</td>
<td>2016.647</td>
<td>Analysis of Sexually Dimorphic Neurons in Mice</td>
</tr>
<tr>
<td>Nicholas G. Martinez (University of Kansas / Biochemistry)</td>
<td>2016.607</td>
<td>Generation of Catalytically Inactive Molecular Chaperone Hsp90 for Conformational Studies</td>
</tr>
<tr>
<td>Josefine Striepen (Bryn Mawr / Biology)</td>
<td>2016.642</td>
<td>Bitter Sweet</td>
</tr>
<tr>
<td>Victor Suarez (Kean University / Biology, Chemistry)</td>
<td>2016.656</td>
<td>Analysis of pan-CaMKIV activity under the effects of bicuculline and tetrodotoxin in vitro</td>
</tr>
<tr>
<td>Keaton Unroe (Longwood University / Biology)</td>
<td>2016.640</td>
<td>The Persistence of Semaphorin 4D Modulated Inhibition (working title)</td>
</tr>
<tr>
<td>Kati Vu (Salem State University / Biology)</td>
<td>2016.634</td>
<td>Screening for genes involved in repairing QP mutations by template switching</td>
</tr>
<tr>
<td>Sarah Zainelabdin (Brandeis / Biology, Chemistry)</td>
<td>2016.686</td>
<td>Site Directed Mutagenesis May Help Shed Light on Penicillium brevicompactum Impdh-B Resistance to Mycophenolic Acid</td>
</tr>
<tr>
<td><strong>Computational Neuroscience Traineeship</strong></td>
<td></td>
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<tr>
<td>Ethan Glantz (Brandeis / Neuroscience)</td>
<td>2016.672</td>
<td>Analyzing changes in hippocampal physiology after DREADD activation.</td>
</tr>
<tr>
<td>Benyamin Meschede-Krasa (Brandeis / Biology, Neuroscience)</td>
<td>2016.613</td>
<td>Modeling the development of direction selectivity in mammalian V1</td>
</tr>
<tr>
<td>Dahlia Kushinsky (Brandeis / Neuroscience)</td>
<td>2016.709</td>
<td>In Vivo Characterization of Central Pattern Generator Controlled Rhythms of the Crab C. Borealis</td>
</tr>
<tr>
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<tr>
<td>Alexander Mitchell (Brandeis / Biology, Neuroscience, Biophysics)</td>
<td>2016.646</td>
<td>Phase Dynamics in BZ Central Pattern Generators</td>
</tr>
<tr>
<td>Mark Sherer (Brandeis / Neuroscience)</td>
<td>2016.701</td>
<td>Building CaMKII Constructs to Probe In Vivo Subunit Exchange</td>
</tr>
<tr>
<td>James Weiss (Brandeis / Neuroscience)</td>
<td>2016.689</td>
<td>Interplay of Temperature and Neuromodulation on the Activity of the Isolated Crustacean Cardiac Pacemaker</td>
</tr>
</tbody>
</table>

**Division of Science Summer Research Fellowship**

<table>
<thead>
<tr>
<th>Student Presenter</th>
<th>Poster #</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>John Deng (Brandeis / Biology)</td>
<td>2016.678</td>
<td>Species Identification: Closed-Tube Barcoding of Naegleria Species</td>
</tr>
<tr>
<td>Richard Haburcak (Brandeis / Chemistry, Mathematics)</td>
<td>2016.662</td>
<td>Ligand-Receptor Interaction Modulates Energy Landscape of Enzyme-Instructed Assembly of Small Molecules</td>
</tr>
<tr>
<td>Miriam Hood (Brandeis / Biochemistry)</td>
<td>2016.605</td>
<td>Investigating Active Site Dynamics of Apicomplexan Malate Dehydrogenase by Nuclear Magnetic Resonance</td>
</tr>
<tr>
<td>Jeremy Koob (Brandeis / Biochemistry, Chemistry)</td>
<td>2016.610</td>
<td>Come to Cobalt: Synthesis and Characterization of Novel Cobalt-SNS Complexes for Hydrogen Fuel Catalysis</td>
</tr>
<tr>
<td>Sabrina McDonnell (Brandeis / Biochemistry)</td>
<td>2016.615</td>
<td>Exploring Interactions Between IMPDH, RNA Polymerase, and Ribosome in Escherichia coli</td>
</tr>
<tr>
<td>Ben Pomerantz (Brandeis / Biology)</td>
<td>2016.663</td>
<td>A Crystallographic and Mechanistic Characterization of the Novel HD-Domain Phosphodiesterase: VCA0681</td>
</tr>
<tr>
<td>Julia Schiantarelli (Brandeis / Biology)</td>
<td>2016.706</td>
<td>The role of Bik1 in coordinating the actin and microtubule cytoskeletons</td>
</tr>
</tbody>
</table>

**HHMI**

<table>
<thead>
<tr>
<th>Student Presenter</th>
<th>Poster #</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nina Feinberg (Brandeis / Biochemistry, Biology)</td>
<td>2016.649</td>
<td>Ancient protein points to life's origin: Knock-in of ancestral adenylate kinase alters growth profile of a modern mesophile</td>
</tr>
<tr>
<td>Ziwei Huang (Brandeis / Physics)</td>
<td>2016.713</td>
<td>Building Logic Gate based on Thermodynamic Model</td>
</tr>
<tr>
<td>Senmiao Sun (Brandeis / Biochemistry, Neuroscience)</td>
<td>2016.629</td>
<td>Essential phenylalanine box for the function of a unique fluoride ion channel</td>
</tr>
</tbody>
</table>

**HHMI EXROP**

<table>
<thead>
<tr>
<th>Student Presenter</th>
<th>Poster #</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micael Maya-Peinl (UC San Diego / Biochemistry)</td>
<td>2016.680</td>
<td>Investigation of the Native Circadian CLOCK-Complex in Drosophila</td>
</tr>
</tbody>
</table>

**Jordan-Dreyer Summer Research Assistantship**

<table>
<thead>
<tr>
<th>Student Presenter</th>
<th>Poster #</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yunqiao Gan (Brandeis / Biochemistry, Chemistry)</td>
<td>2016.661</td>
<td>Effect of sodium bromide on pattern formation in the chlorine dioxide-iodide-malonic acid reaction-diffusion system</td>
</tr>
<tr>
<td>Yongwoon Kim (Brandeis / Biochemistry, Chemistry)</td>
<td>2016.659</td>
<td>Coupling Behaviors of Spatially Arranged Oscillating Gels</td>
</tr>
<tr>
<td>Scott MacDonald (Brandeis / Biology, Chemistry)</td>
<td>2016.697</td>
<td>Directed Evolution of glycoDNAs Antigenic for a Carbohydrate Epitope on HIV</td>
</tr>
<tr>
<td>Anna Rothstein (Brandeis / Biology, Chemistry)</td>
<td>2016.667</td>
<td>Synthesis of a Zr Metal Organic Framework Containing a Pt(PNNNP) Pincer Complex</td>
</tr>
<tr>
<td>Rachel Voss (Brandeis / Chemistry)</td>
<td>2016.668</td>
<td>Breathing Effects in Oxidized Cr(BDT)</td>
</tr>
<tr>
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<tr>
<td><strong>MRSEC REU</strong></td>
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<tr>
<td>David Barnes (Hampton University / Mathematics)</td>
<td>2016.694</td>
<td>Reductive Elimination of Methylene-Coupled Products from a Binuclear Oxidized Gold A-Frame</td>
</tr>
<tr>
<td>Angela Berry (Hampton University / Pre-Pharmacy)</td>
<td>2016.627</td>
<td>The Nanometer-Scale Stepping Behaviors of Kinesin 401 and Kinesin 365</td>
</tr>
<tr>
<td>Angelina Gallego (Hampton University / BioPhysics)</td>
<td>2016.623</td>
<td>&quot;Look at that Membrane&quot; Studying the DNA Mediated Interactions Between Colloids and Lipid Stabilized Interfaces</td>
</tr>
<tr>
<td>Evonne Jean (Hampton University / Biology)</td>
<td>2016.616</td>
<td>Tracking the Behavior of Mutated Coactosin</td>
</tr>
<tr>
<td>Amber Jones (Hampton University / Biology)</td>
<td>2016.687</td>
<td>The Disassembly of the F-Bar Protein Nervous Wreck from the Cell Membrane</td>
</tr>
<tr>
<td>Susan Okrah (Hampton University / Chemical Engineering)</td>
<td>2016.653</td>
<td>Analyzation of the synchronization of simple BZ Structures</td>
</tr>
<tr>
<td>Adrianna Shy (Hampton University / Chemistry)</td>
<td>2016.618</td>
<td>Reconstruction of Beta-Sheet Peptides and an Analysis of their Self-Assembling Abilities</td>
</tr>
<tr>
<td><strong>MRSEC REU, Nano HU Program</strong></td>
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<tr>
<td>Niya Wilkins (Hampton University / Environmental Science)</td>
<td>2016.626</td>
<td>Making Double Emulsions in Thermoplastic Microfluidic Devices</td>
</tr>
<tr>
<td><strong>New England Biolabs</strong></td>
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<tr>
<td>Jacqueline Jeon-Chapman (Brandeis / Biology)</td>
<td>2016.622</td>
<td>Epigenetic Gene Silencing Induced by Invading Homologous DNA in Naegleria gruberi</td>
</tr>
<tr>
<td><strong>Physics Department</strong></td>
<td></td>
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<tr>
<td>Kevin Wang (Brandeis / Physics)</td>
<td>2016.683</td>
<td>Jansky Very Large Array Imaging of X-Shaped Radio Galaxies. I</td>
</tr>
<tr>
<td><strong>Physics Dept</strong></td>
<td></td>
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</tr>
<tr>
<td>Micah Margolis (Brandeis / Physics)</td>
<td>2016.630</td>
<td>Novel Techniques for Examining the Restarting Radio Galaxy 3C 219 in Search of Star Formation</td>
</tr>
<tr>
<td><strong>Provost’s Undergraduate Research Fund</strong></td>
<td></td>
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<tr>
<td>Zoe Brown (Brandeis / Neuroscience, Psychology)</td>
<td>2016.673</td>
<td>Effects of Hearing Acuity on Use of Prosody in Speech Comprehension</td>
</tr>
<tr>
<td>Kristin Diamantides (Brandeis / Biology)</td>
<td>2016.664</td>
<td>Recombination Rates of LacZ within the Chromsome of E. Coli</td>
</tr>
<tr>
<td>Lily He (Brandeis / Biology, Neuroscience)</td>
<td>2016.648</td>
<td>Characterizing the Sensitivity of the Pyloric Network to Changes in Extracellular [K+]</td>
</tr>
<tr>
<td>Carly KleinStern (Brandeis / Physics)</td>
<td>2016.682</td>
<td>Jansky Very Large Array Imaging of X-Shaped Radio Galaxies. II</td>
</tr>
<tr>
<td>Austin Luor (Brandeis / Biology, Neuroscience)</td>
<td>2016.633</td>
<td>Examining the Physiological Changes in Pupillary Response and Listening Effort in Older and Younger Adults</td>
</tr>
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<tr>
<td>Danielle Robbins (Brandeis / Neuroscience)</td>
<td>2016.700</td>
<td>Green Fluorescent Protein Silencing in Mouse Lines</td>
</tr>
<tr>
<td>Zach Trotz (Brandeis / Physics)</td>
<td>2016.702</td>
<td>Tiny Tumblebeads: Making Spinning Colloids Roll with DNA-Mediated Friction</td>
</tr>
<tr>
<td>Sara Gelles-Watnick (Brandeis / Biochemistry)</td>
<td>2016.611</td>
<td>Src Kinase Kinetics</td>
</tr>
</tbody>
</table>

**Provost's Undergraduate Research Fund, SSSP Experiential Learning Fund**

<table>
<thead>
<tr>
<th>Student Presenter</th>
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<tbody>
<tr>
<td>Kimberly Montano (Brandeis / Biology, Sociology)</td>
<td>2016.654</td>
<td>Human Papilloma Virus and Cervical Cancer: Detecting High-Risk mixed Infections using single-closed tube LATE-PCR</td>
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**QBReC**

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<thead>
<tr>
<th>Student Presenter</th>
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<tbody>
<tr>
<td>Eduardo da Veiga Beltrame (Brandeis / Biophysics)</td>
<td>2016.685</td>
<td>Development of a simple and easy to use gene transcription simulator</td>
</tr>
<tr>
<td>Kyra Hamel (Brandeis / Biochemistry, Biophysics)</td>
<td>2016.679</td>
<td>Look At Those Curves: Measuring Thermodynamic Properties of Multi-Strand DNA</td>
</tr>
<tr>
<td>Jesse Held (Brandeis / Physics)</td>
<td>2016.643</td>
<td>Behavioral State Switching in Belousov–Zhabotinsky Reaction Micro-emulsion Star Networks</td>
</tr>
<tr>
<td>Frankie Marchan (Brandeis / undeclared, intended majors in biochemistry and neuroscience)</td>
<td>2016.677</td>
<td>Effect of Limited Activation of Fusion Protein on Probability of Viral Membrane Fusion</td>
</tr>
<tr>
<td>Michael Perlow (Brandeis / Biological Physics)</td>
<td>2016.699</td>
<td>Powering Active Colloids with DNA Polymerization</td>
</tr>
<tr>
<td>Cosmo Guerini, Matt Stenerson (Brandeis / Neuroscience)</td>
<td>2016.637</td>
<td>Evaluating General Computational Theories for Neuronal Branching and Their Practical Application to Cells in the Stomatogastric Ganglion</td>
</tr>
<tr>
<td>Olivia Zou (Brandeis / Mathematics, Biological Physics)</td>
<td>2016.693</td>
<td>Gaining a Toehold in the Thermodynamics of DNA Strand Displacement</td>
</tr>
</tbody>
</table>

**SMURF (Summer MRSEC Undergrad Research Fellowship)**

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<tr>
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<tbody>
<tr>
<td>Margaret Morris (Brandeis / Mathematics, Physics)</td>
<td>2016.620</td>
<td>Testing Euler's theory of elastic buckling using rod-like flagella</td>
</tr>
<tr>
<td>Guillermo Narvaez (Brandeis / Physics)</td>
<td>2016.617</td>
<td>Quantitative study of linker-mediated binding between DNA-grafted colloids</td>
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<td>Jianshuo Qiu (Brandeis / Mathematics, Physics)</td>
<td>2016.619</td>
<td>Dynamical Self-regulation in Self-propelled Particle Flows at High Densities</td>
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<td>Amanda Shilton (Brandeis / Biology, Neuroscience)</td>
<td>2016.621</td>
<td>Identifying Key Players in Growth Factor Signaling Defects in Amyotrophic Lateral Sclerosis</td>
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<td>Natsuko Yamagata (Brandeis / Chemistry)</td>
<td>2016.669</td>
<td>Supramolecular Hydrogels of Retro-Inverso Hexapeptides for 3D Cell Culture</td>
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