# UF HHMI ICORE
Interdisciplinary Center for Ongoing Research/Education
Summer Institute: June 9 – 21, 2013

| Sunday, June 9, 2013 | Keys Residential Housing check-in 2-4pm  
Evening 5pm-9pm  
(dinner provided) | Keys Residential Housing check-in 2-4pm  
Evening 5pm-9pm  
(Location: Emerging Pathogens Institute Building, Conference Room 150)  
**Van shuttle departs at 4:45pm; parking also available at building**  
- Welcome, introductions and dinner, Ms. Drew Joseph, Dr. Mary Jo Koroly, Ms. Julie Bokor, Dr. Houda Darwiche, Dr. Charles Lawrence, Center for Precollegiate Education and Training  
- Presentation: *Emerging Pathogens and Pandemics: Things that Go Bump in the Night*, Dr. J. Glenn Morris, Director, Emerging Pathogens Institute and Professor of Medicine  
- Program overview |
| Monday, June 10, 2013 | All day 8:30am-5:00pm  
8:30am – 5:00pm  
(lunch provided)  
(dinner on own) | All day 8:30am-5:00pm  
8:30am – 5:00pm  
(lunch provided)  
(dinner on own)  
(Location: ICBR Education Laboratory, Cancer & Genetics Building)  
**Bring your water samples to lab today**  
*Drive self or take the 121 campus bus from the NE corner of Stadium Rd. & Gale Lemerand – Houda to guide from the Keys*  
- Computer setup, Pretest assessments, reflective journaling  
- Lab Experiment: Plant Virus detection through Immunostrip Assay  
- Presentation: *ELISA Technique*, Ms. Linda Green, ICBR  
- Lunch provided  
- Lab Activity: Designer Plates  
- Lab Experiment: GMO PCR  
- Presentation: *Transgenic Citrus with Immunity to Citrus Greening Disease*, Dr. Dean Gabriel, Professor, Plant Pathology Lab Experiment: *Coliform Calamity*  
- Debrief/brainstorm: What have teachers learned, where in the school year can they use what they’ve learned/what units/pacing/curric, what would these topics or labs replace  

| Tuesday, June 11, 2013 | All day 8:30am-5:00pm  
8:30am – 5:00pm  
7:00pm – 9:00pm  
(lunch provided)  
(dinner on own) | All day 8:30am-5:00pm  
8:30am – 5:00pm  
7:00pm – 9:00pm  
(lunch provided)  
(dinner on own)  
(Location: ICBR Education Laboratory, Cancer & Genetics Building)  
- Lab Experiment: GMO PCR (cont’d)  
- Presentation: *Waterborne Pathogens: A Social Science Perspective*, Dr. Richard Rheingans, Associate Professor, Department of Environmental and Global Health  
- Presentation: *Molecular biology of Vibrio cholera*, Dr. Judith Johnson, Professor, Department of Pathology, Immunology, and Laboratory Medicine and Director of EPI Core Lab Facilities  
- Lunch provided  
- Lab Activity: *Cholera Conundrum*; Presentation: Thomas A. Weppelman, Ph.D. Candidate and Researcher, Department of Environmental and Global Health  
- Lab Experiment: *Coliform Calamity* (cont’d)  

|  | Evening 7pm-9pm  
|  |  
|  |  
|  | Location: The Keys Conference Room  
- Best practice sharing session; jigsaw groups |
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, June 12, 2013</td>
<td>8:30am – 5:00pm</td>
<td>All day 8:30am-5pm</td>
<td><strong>ICBR Education Laboratory, Cancer &amp; Genetics Building</strong>&lt;br&gt;• Reflective Journal 1&lt;br&gt;• Bioinformatics Presentation and activity: <em>Bioinformatics for Evolution and Diversity</em>, Dr. Gordon Burleigh, Assistant Professor, Department of Biology&lt;br&gt;• Lab Experiment: Salmonella Real Time/Quantitative PCR (qPCR)&lt;br&gt;• Lunch on own&lt;br&gt;• Lab Experiment: Salmonella qPCR, analyzing <em>Vibrios</em> qPCR results&lt;br&gt;• Lab Experiment: <em>Coliform Calamity</em> (cont’d); Presentation and activity: <em>Using ArcGIS to Analyze Coliform Contamination</em>, Dr. Bob Swett, Associate Professor, Fisheries and Aquatic Sciences; Ms. Corina Guevara</td>
</tr>
<tr>
<td>Thursday, June 13, 2013</td>
<td>8:00am – 4:30pm</td>
<td>Morning 8:00am-12pm</td>
<td><strong>HPNP Building, Room G-101</strong>&lt;br&gt;<strong>van shuttle departs Keys at 7:45am</strong>&lt;br&gt;• Presentation in conjunction with Student Science Training Program Presentation: <em>Viruses and the Immune System: Who is the Pupil and who is the Teacher?</em> Dr. Grant McFadden, Professor, Department of Microbiology and Molecular Genetics&lt;br&gt;• Presentation: <em>Screwworm and other Zoonoses</em>, Dr. Fiona Maunsell, Assistant Professor, Department of Large Animal Clinical Sciences and Department of Infectious Diseases and Pathology&lt;br&gt;• Presentation: <em>Biochemistry of HIV Drugs</em>, Dr. Ben Dunn, Distinguished Professor, Department of Biochemistry and Molecular Biology&lt;br&gt;• Lunch on own&lt;br&gt;• Panel <em>Biotechnology Careers</em>, Ms. Patti Breedlove, Director, UF Sid Martin Biotechnology Incubator, Ms. Kathy Savage, CPET Curriculum Fellow and Bioscience Teacher, Oviedo High School&lt;br&gt;• Lab Activity: ELISA</td>
</tr>
<tr>
<td></td>
<td>7:00pm – 9:00pm</td>
<td><strong>no breakfast provided</strong></td>
<td><strong>Health Science Center</strong>&lt;br&gt;• Lab Visits</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Free!! Please drive safely.</strong></td>
<td><strong>Bring curriculum maps or pacing guides</strong>&lt;br&gt;• Debrief/brainstorm: What have teachers learned, where in the school year can they use what they’ve learned/what units/pacing/curric, what would these topics or labs replace&lt;br&gt;• ICORE in your classroom – curriculum mapping/pacing and action proposal brainstorm</td>
</tr>
<tr>
<td>Friday, June 14, 2013</td>
<td>8:30am-3:00pm</td>
<td>All day 8:30am-3:00pm</td>
<td><strong>ICBR Education Laboratory, Cancer &amp; Genetics Building</strong>&lt;br&gt;• Interactive session: <em>Historical and Emerging Mosquito-borne Pathogens in Florida</em>, mosquito identification - Dr. Roxanne Connelly, Associate Professor, Florida Medical Entomology Laboratory; Dr. Phil Kaufman, Associate Professor, Veterinary Entomology&lt;br&gt;• Lunch provided</td>
</tr>
<tr>
<td></td>
<td>3:00pm</td>
<td><strong>Free!! Please drive safely.</strong></td>
<td><strong>Historical and Emerging Mosquito-borne Pathogens in Florida</strong>, mosquito identification - Dr. Roxanne Connelly, Associate Professor, Florida Medical Entomology Laboratory; Dr. Phil Kaufman, Associate Professor, Veterinary Entomology</td>
</tr>
<tr>
<td>Date</td>
<td>Schedule</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, June 15</td>
<td>No scheduled program activities. If in town, consider a visit to one of our local springs, gardens, or the UF Cultural Plaza (Florida Museum of Natural History and Harn Art Museum), or ask CPET staff for recommendations.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Sunday, June 16      | All day: 8:30am-5pm
Location: ICBR Education Laboratory, Cancer & Genetics Building
- Reflective Journal 2
- Lab Experiment: Protein Extraction of Bacteria
- Presentation: “Omics” of Proteins, Dr. Sixue Chen, Associate Professor, Department of Biology
- Lab Experiment: Protein Extraction of Bacteria
- Lunch provided
- Lab Experiment: Protein Extraction of Bacteria
- Presentation: Protein Analysis with Mass Spectrometry, Dr. Nick Polfer, Assistant Professor, Department of Chemistry
- Lab Experiment: Protein Extraction of Bacteria

Evening
Free!! |

| Monday, June 17      | All day: 8:30am-5pm
Location: ICBR Education Laboratory, Cancer & Genetics Building
- Reflective Journal 2
- Lab Experiment: Protein Extraction of Bacteria
- Presentation: “Omics” of Proteins, Dr. Sixue Chen, Associate Professor, Department of Biology
- Lab Experiment: Protein Extraction of Bacteria
- Lunch provided
- Lab Experiment: Protein Extraction of Bacteria
- Presentation: Protein Analysis with Mass Spectrometry, Dr. Nick Polfer, Assistant Professor, Department of Chemistry
- Lab Experiment: Protein Extraction of Bacteria

Evening
Free!! |

| Tuesday, June 18     | All day: 8:30am-5pm
Location: ICBR Education Laboratory, Cancer & Genetics Building
- Lab Experiment: Protein Extraction of Bacteria – Mass Spectrometry Results and Analysis; Presentation: Proteomics in the Classroom, Mr. Jonathan Benskin, CPET Curriculum Fellow and AP Biology Teacher, Boca Raton Community High School
- Lunch on own
- Activity, curricula and resources: ELISA; Dot Blot; Menacing Microbes; Viral Quest Curriculum; CPET resources and support

Evening
7-9pm (optional)
Location: The Keys Conference Room
- Guided work on Action Proposals |

| Wednesday, June 19   | Morning 8:30am-12pm
Location: ICBR Education Laboratory, Cancer & Genetics Building
- Reflective Journal 3
- Presentation: Forest Pathology, Dr. Jason Smith, Assistant Professor, School of Forest Resources and Conservation
- Presentation: Foodborne Pathogens, Dr. Amy Simonne, Professor, Family, Youth, and Community Sciences
- Lab Activities and curricula: Dengue curriculum and gel electrophoresis
- Lunch on own

Location: EPI Building, Room 150
- Presentation: HPV Vaccine Series Initiation in Low Income Teens, Dr. Stephanie Staras, Assistant Professor, Institute for Child Health Policy |
<table>
<thead>
<tr>
<th>Date</th>
<th>Schedule</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, June 20, 2013</td>
<td>Morning 9am-12pm</td>
<td><strong>Location: EPI Building, Room 150</strong></td>
</tr>
<tr>
<td>8:30am – 3:00pm</td>
<td>Presentation: <em>Aquatic Pathogens</em>, Dr. Andrew Kane, Associate Professor, Department of Environmental and Global Health</td>
<td></td>
</tr>
<tr>
<td>5:00 – 7:00pm</td>
<td>Wrap up questions with Drew</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lunch on own</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Evening 5:30-7:30pm</strong></td>
<td><strong>Location: The Warehouse</strong></td>
</tr>
<tr>
<td></td>
<td>ICORE dinner</td>
<td></td>
</tr>
<tr>
<td>Friday, June 21, 2013</td>
<td>All day 8:30am-3pm</td>
<td><strong>Location: EPI Building, Room 150</strong></td>
</tr>
<tr>
<td>8:30am – 3:00pm</td>
<td>Load presentations onto computers, breakfast, collect evaluations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Presentation of Action Proposals</td>
<td></td>
</tr>
</tbody>
</table>