

# Florida-California Cancer Research Education & Engagement (CaRE<sup>2</sup>)

## 12-Week Research Education Core (REC) Training at Florida A&M University



### Online-Summer Undergraduate (CaRE<sup>2</sup>) Program, REC Schedule (May 11 – July 24, 2020).

DATE	8:00 AM - 1:00 PM	2:00 PM – 5:00 PM
<b>Week 1</b>	<b>Mentor-Guided Independent Study</b>	<b>Mentor-Guided Independent Study</b>
May 11-15	<p>Administrative Paperwork (Ms. Christina Lavender)</p> <p>Laboratory Safety Training (FAMU Blackboard based training)</p> <p><b>Animated Introduction to Cancer Biology (Full Documentary)</b> (erQuest-Emory University: An animation/video teaching the basics of how cancer forms and spreads. <b>Topics:</b> mutation, tumor suppressors, oncogenes, angiogenesis, apoptosis, metastasis and drug resistance.)</p>	<p>Mentor-Trainee Matching (Bereket Mochona &amp; Kinfe Redda REC @FAMU)</p> <p>Mentor Orientation (overview of online mentoring) (Kinfe Redda &amp; Bereket Mochona)</p> <p>Research Design &amp; Literature Search (Mentor-Guided)</p> <p><b>Cancer Biology and Cancer Medicine:</b> (Presentation by Nobel laureate <b>Harold Varmus</b> for the Stanford School of Medicine)</p>
<b>Week 2</b>		
May 18	<b>Mentor-Guided Virtual Research Plan Consultations</b>	<p><b>Opening Ceremony:</b></p> <ol style="list-style-type: none"> <li>Welcome Remark, Introduction of Trainees &amp; Mentors: <b>Bereket Mochona (REC @ FAMU)</b></li> <li>Florida-California CaRE<sup>2</sup> Overview: <b>Renee Reams (CaRE<sup>2</sup> @ FAMU)</b></li> <li>Program Overview &amp; Expectations: <b>Kinfe Redda (REC @ FAMU)</b></li> <li>Invited Speaker: <b>Dean Richard Alo</b> (College of Science &amp; Technology)</li> <li>CaRE<sup>2</sup>-REC - Bridge into Professional Programs: <b>Ite Offringa (REC @ USC)</b></li> <li>Pre- &amp; Post Training Program Evaluation (<b>Ukamaka Dike Smith, CaRE<sup>2</sup> PEC @FAMU</b>)</li> </ol>
May 19	<b>Mentor-Guided Virtual Research Plan Consultations</b>	<p><b>Cancer Disparity-Seminar Series-1</b></p> <p><b>Topic:</b> “Race and the Molecular Biology of Breast Cancer: A Pathologist’s View from the Bench to the Bedside.”</p> <p><b>Speaker:</b> Kevin L. Gardner, M.D., Ph.D., Department of Pathology and Cell Biology, Columbia University Medical Center</p>
May 20	<b>Mentor-Guided Virtual Research Plan Consultations</b>	Group Interactions & Discussions about CaRE <sup>2</sup> - REC Training Activities and Lessons Learned

May 21	<b>Mentor-Guided Virtual Research Plan Consultations</b>	<p>Group Discussion - Taking a 4-week long online Harvard University course:</p> <p><b>Course Name:</b> Lessons from Ebola: Preventing the next Pandemic</p> <p><b>Course Description:</b> Understanding the context for the Ebola outbreak: What went right, what went wrong, and what we all can do better; 4 weeks long; 3-5 hours per week; self-paced; verified certificate after completion. <b><i>Pursue a Verified Certificate to highlight the knowledge and skills you gain (\$49 USD)</i></b></p>
May 22	<b>Mentor-Guided Virtual Research Plan Consultations</b>	<b>Independent study and review of mentor assigned tasks and course studies, including any writing assignments</b>
<b>Week 3</b>		
May 25	****MEMORIAL DAY HOLIDAY****	****MEMORIAL DAY HOLIDAY****
May 26	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Community Outreach: Moderated by Dr. Sandra Suther, Ph.D. CaRE<sup>2</sup> - COC @FAMU</b></p> <p><b>Topic:</b> “A community approach to breast cancer prevention: addressing health disparities” (NIH- training videocast)</p> <p><b>Speaker:</b> Lucile Adams-Campbell, Ph.D., Associate Director, Minority Health and Health Disparities Research, Senior Associate Dean, Community Outreach and Engagement, Professor of Oncology, Lombardi Comprehensive Cancer Center, Georgetown University Medical Center</p>
May 27	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Interactions &amp; Discussions about CaRE<sup>2</sup> - REC Training Activities and Lessons Learned</b>
May 28	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Professional Development - Seminar Series</b></p> <p><b>Topic:</b> “Research Ethics in Biomedical Sciences.”</p> <p><b>Speaker:</b> Kinfe Ken Redda, Ph.D., Professor Emeritus, College of Pharmacy &amp; Pharmaceutical Sciences. REC @ FAMU Co-Leader, Former FAMU Vice-president for Research.</p>
May 29	<b>Mentor-Guided Virtual Research Activities</b>	<b>Independent study and review of mentor assigned tasks and course studies, including any writing assignments</b>
<b>Week 4</b>		
June 1	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Professional Development Sereies-2</b></p> <p><b>Topic:</b> Writing a Personal Statement</p> <p><b>Speaker:</b> Elena Hernandez-Ramon, MD, PhD, Director, Pre-medical Program, OITE, NIH</p>

June 2	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>BSMC Core Lecture Series</b></p> <p><b>Topic:</b> “Biostatistics – Data Collection &amp; Analysis”</p> <p><b>Speaker:</b> Gebre-Egziabher Kiros, Ph.D. Professor, Epidemiology &amp; Biostatistics, FAMU FAMU-CaRE<sup>2</sup> - BSMC Core Leader</p>
June 3	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Interactions &amp; Discussions about CaRE<sup>2</sup> - REC Training Activities and Lessons Learned</b>
June 4	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Drug Discovery Seminar Series</b></p> <p><b>Topic:</b> Molecular Modeling in Anticancer Cancer Drug Discovery &amp; Development.</p> <p><b>Speaker:</b> Suresh Eyunni, Ph.D. (FAMU) Director of Molecular Modeling Laboratory, FAMU RCMI, Drug Discovery Core, Department of Chemistry, FAMU</p>
June 5	<b>Mentor-Guided Virtual Research Activities</b>	<b>Independent study and review of mentor assigned tasks and course studies, including any writing assignments</b>
<b>Week 5</b>		
June 8	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>NIH-Seminar Series in Oncology</b></p> <p><b>Topic:</b> Immune checkpoint blockade in cancer therapy: historical perspective, new opportunities, and prospects for cures (NIH videocast)</p> <p><b>Speaker:</b> James P. Allison, Ph.D., Nobel Prize in Physiology or Medicine (2018), MD Anderson Cancer Center, University of Texas</p>
June 9	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Professional Development Series</b></p> <p><b>Topic:</b> NIH Graduate &amp; Professional School Fair</p> <p><b>Speaker:</b> Dr. William J. Higgins, OITE Pre-Professional Advisor</p>
June 10	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Interactions &amp; Discussions about CaRE<sup>2</sup> - REC Training Activities and Lessons Learned</b>
June 11	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>NIH - Lecture Series</b></p> <p><b>Topic:</b> We are what we eat: nutrition, genes, cognition &amp; deep learning in age-related macular degeneration</p> <p><b>Speaker:</b> Emily Chew, M.D., National Eye Institute, NIH</p>
June 12	<b>Mentor-Guided Virtual Research Activities</b>	<b>Independent study and review of mentor assigned tasks and course studies, including any writing assignments</b>

<b>Week 6</b>		
June 15	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Discussion:</b> Progress Report about the Course “Lessons from Ebola: Preventing the next Pandemic”
June 16	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Professional Development Series</b></p> <p><b>Topic:</b> Advice from Trenches: Getting to Professional School</p> <p><b>Panelists:</b> Luisa A. DePietro, DDS, PhD, Milford M. Foxwell, MD, Gabriel Garcia, MD.</p> <p><b>Moderator:</b> Lori Conlan, PhD</p>
June 17	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Interactions &amp; Discussions about CaRE<sup>2</sup> - REC Training Activities and Lessons Learned</b>
June 18	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Drug Discovery Lecture Series</b></p> <p><b>Topic:</b> Taxol: Discovery, Mechanism and Cancer Treatment (NIH Videocast)</p> <p><b>Speaker:</b> Susan Band Horwitz, PhD, Albert Einstein College of Medicine and Jung-Min Lee, MD, Center for Cancer Research, NCI, NIH</p>
June 19	<b>Mentor-Guided Virtual Research Activities</b>	<b>Independent study and review of mentor assigned tasks and course studies, including any writing assignments</b>
<b>Week 7</b>		
June 22	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>NIH-Lecture Series</b></p> <p><b>Topic:</b> Genomics &amp; Health Disparities: Towards Understanding the Role of Population Diversity in Cancer Genome Science</p> <p><b>Speaker:</b> John Carpten, PhD, Professor, CaRE<sup>2</sup> MPI, University of Southern California</p>
June 23	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Study of a Journal Article for Discussion:</b></p> <p><b>Cancer.</b> 2010 Nov 1;116(21):4926-32. doi: 10.1002/cncr.25276.</p> <p>African ancestry and higher prevalence of triple-negative breast cancer: findings from an international study.</p> <p><a href="#">Stark A<sup>1</sup></a>, <a href="#">Kleer CG</a>, <a href="#">Martin I</a>, <a href="#">Awuah B</a>, <a href="#">Nsiah-Asare A</a>, <a href="#">Takyi V</a>, <a href="#">Braman M</a>, <a href="#">Quayson SE</a>, <a href="#">Zarbo R</a>, <a href="#">Wicha M</a>, <a href="#">Newman L</a>.</p> <p><b>Abstract</b>  <b>BACKGROUND:</b>  The study of breast cancer in women with African ancestry offers the promise of identifying markers for risk assessment and treatment of triple-negative disease.</p>
June 24	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Interactions &amp; Discussions about CaRE<sup>2</sup> - REC Training Activities and Lessons Learned</b>

June 25	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Cancer Disparity Lecture Series</b></p> <p><b>Topic:</b> A Multilevel Strategy for Understanding and Addressing Health Disparities</p> <p><b>Panelists:</b> Ravi A. Madan, M.D., NCI, NIH and Lekha Mikkilineni, M.D., NCI, NIH</p>
June 26	<b>Mentor-Guided Virtual Research Activities</b>	<b>Independent study and review of mentor assigned tasks and course studies, including any writing assignments</b>
<b>Week 8</b>		
June 29	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>NIH- Cancer Disparity Lecture Series</b></p> <p><b>Topic:</b> Understanding Health Disparities in America</p> <p><b>Speaker:</b> Professor Sir Michael Marmot, Department of Epidemiology and Public Health, University College London</p>
June 30	<b>Mentor-Guided Virtual Research Activities</b>	<p><b>Professional Development Series</b></p> <p><b>Topic:</b> Preparing for Your Interview for Professional School</p> <p><b>Speaker:</b> Dr. William Higgins, OITE Pre-Professional Advisor</p>
July 1	<b>Mentor-Guided Virtual Research Activities</b>	<b>Group Interactions &amp; Discussions about the assigned journal article, “African ancestry and higher prevalence of triple-negative breast cancer: findings from an international study”.</b>
July 2	<b>Mentor-Guided Virtual Research Activities – Data Analysis</b>	<p><b>Professional Development Series</b></p> <p><b>Presentation of Trainee Initial Research Results (5-10 minutes) - Power point Presentation</b></p>
July 3	<b>***INDEPENDENCE DAY OBSERVED***</b>	<b>***INDEPENDENCE DAY OBSERVED***</b>
<b>WEEK 9</b>		
July 6	<b>Mentor-Guided Virtual Research Activities – Data Analysis</b>	<p><b>Professional Development Series</b></p> <p><b>Topic:</b> Nursing Research: Changing Practice, Changing Lives</p> <p>By the National Institute of Nursing Research Team</p>
July 7	<b>Mentor-Guided Virtual Research Activities - Data Analysis</b>	<p><b>Professional Development Series</b></p> <p><b>Topic:</b> GRE, MCAT Preparation, Academic Advising</p> <p><b>Speaker:</b> Richard Warnecke, Ph.D., University of Illinois at Chicago</p>
July 8	<b>Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation</b>	<p><b>Professional Development Series</b></p> <p><b>Presentation of Trainee Initial Research Results (5-10 minutes) - Power point Presentation</b></p>

July 9	<b>Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation</b>	<p><b>Final Required Reading, Journal Article:</b></p> <p>ACS Communication</p> <p><b>Free Access: Charting the future of cancer health disparities research:</b> A position statement from the American Association for Cancer Research, the American Cancer Society, the American Society of Clinical Oncology, and the National Cancer Institute  <u>Blase N. Polite MD, MPP, Lucile L. Adams-Campbell PhD</u>  <u>Otis W. Brawley MD</u></p> <p>First published: <b>24 July 2017</b></p> <p><a href="https://doi.org/10.3322/caac.21404">https://doi.org/10.3322/caac.21404</a>  Citations: <u>14</u></p> <p>This article is jointly published in <i>Cancer Research, CA: A Cancer Journal for Clinicians, Journal of Clinical Oncology</i>, and <b>cancer.gov</b> by the American Association for Cancer Research, the American Cancer Society, the American Society of Clinical Oncology, and the National Cancer Institute, respectively. The 4 organizations publishing this article have agreed that this work shall be in the public domain in the United States. <b>Published 2017.</b></p>
July 10	<b>Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation</b>	<b>Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation</b>
<b>Week 11</b>		
July 13	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation</b>	<b>Final Steps: Mentor-Guided Virtual Research Activities-Data Analysis, Preparation for Final Presentation</b>
July 14	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation</b>	<p><b>Professional development</b></p> <p><b>Topic:</b> Research Design, Scientific Writing &amp; Graduate Programs in Biomedical Sciences</p> <p><b>Speaker:</b> Ite A. Offringa, Ph.D., Associate Dean for Graduate Affairs and Director of Programs in Biomedical &amp; Biological Sciences, University of Southern California, Los Angeles, CA</p>
July 15	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation, Poster Design</b>	<b>Group Interactions &amp; Discussions about the assigned journal article, "ACS Communication: Charting the future of cancer health disparities research".</b>
July 16	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation, Poster Design</b>	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation, Poster Design</b>
July 17	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation, Poster Design</b>	<b>Final Steps: Mentor-Guided Virtual Research Activities - Data Analysis, Preparation for Final Presentation, Poster Design</b>

Week 12		
July 20 -22	Oral Poster Presentation Practice (10 minutes each with research mentor)	Oral Poster Presentation Practice (10 minutes each with REC Administrators)
July 23	<b>Closing Ceremony: Final Oral Poster Presentations</b>	<b>Closing Ceremony: Final Oral Poster Presentations</b>
July 24	Final Administrative Close-outs	Final Administrative Close-outs