**Short Course in Cancer Biology January 7-10, 2015**

U54 Partnership for Excellence in Cancer Research

University of Puerto Rico Comprehensive Cancer Center and The University of Texas MD Anderson Cancer Center

Codification: **BCHM 8995**

UPR Course Co-Coordinator: Pablo Vivas, Ph.D.

UT/MDACC Course Co-Coordinator: Elizabeth Travis, PhD

UPR/MDACC U54 Training and Education Cores Co-Leaders: Reynold Lopez, MD and Elizabeth Travis, Ph.D.

University of Puerto Rico Medical Sciences Campus, University of Puerto Rico Comprehensive Cancer Center and The University of Texas MD Anderson Cancer Center

Target audience: Junior and senior undergraduate students, medical students, and graduate students

Pre-requisite for undergraduates:

Cellular Biology (*Biología de la Célula*) BIOL 4350

Contact Hours: 30

Credits: 2 credit hours, registration required; Special Topics in Cancer Biology **BCHM 8995**

Description: Introductory level course composed of lectures in the biology of cancer for upper level

undergraduate, pre-medical students, medical students, and pre-candidacy graduate students. The Course covers concepts in cancer biology ranging from basic cell biology to translational applications of cancer biology.

Registration: Pre-registration is required (by November 2014). Students from other UPR campuses (except UPR-Medical Sciences Campus) and the Ponce School of Medicine will need to request and have a “special permit” signed by a liaison from the corresponding campus. Registration fees are the same cost for credit as those for all regular courses at the UPR - Medical Sciences Campus. The registration process will be completed during the registration period for the 2015 Spring Semester.

Final Scores:

Undergraduate students will receive a grade A to F

Graduates score will be either Pass or Fail

Wednesday, January 7 to Saturday, January 10, 2014.

Mornings: 9:00 a.m. - 12:00 noon

Afternoons: 1:00 p.m. - 5:30 p.m.

Location: The University of Puerto Rico Comprehensive Cancer Center

The University of Puerto Rico - Medical Sciences Campus,

San Juan, Puerto Rico

**COURSE CONTENT AND SCHEDULE**

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| **DATE** | **TIME** | **TOPIC** | | **HOURS** | **SPEAKER** | **INSTITUTION** |
| **Day 1**  **Wed**  **Jan 7** | **DEVELOPMENT & PROGRESSION OF CANCER** | | | | | |
| **9:00 AM** | | **Course Introduction, Principles and Pathology of Cancer** | **3.0 hours** | **David McConkey Ph.D** | **MDACC** |
| **1:00 PM** | | **Signaling Pathways and Aberrant Cell Signaling in Cancer** | **3.0 hours** | **Pedro G. Santiago-Cardona PhD** | **PSM&H** |
|  | **4:00 PM** | | **Clinical Translational Correlation Breast Cancer** | **1.5 hours** | **Edna Mora, MD** | **UPR** |
| **DAY 2 Thursday Jan 8** | **GENETICS RELATED TO THE BIOLOGY OF CANCER** | | | | | |
| **9:00 AM** | | **Epigenetic Regulation and Cancer** | **3.0 hours** | **Michele Barton, PhD** | **MDACC** |
| **1:00 PM** | | **TCGA The Cancer Genome Atlas** | **3.0 hours** | **Tim Heffernan PhD** | **MDACC** |
| **4:00 PM** | | **Clinical translational correlation Leukemia** | **1.5 hours** | **Maribel Tirado MD** | **UPR** |
| **DAY 3**  **Friday**  **Jan 9** | **Mouse Models and Tumor Microenvironment** | | | | | |
| **9:00 AM** | | **The mouse as a model for studying the p53 tumor suppressor pathway** | **3.0 hours** | **Gigi Lozano PhD** | **MDACC** |
| **1:00-6:00 PM** | | **Tumor microenvironment and metastases** | **5.0 hours** | **Raghu Kalluri**  **PhD** | **MDACC** |
| **DAY 4**  **Saturday**  **Jan 10** | **Clinical Translational Correlations and Immunology** | | | | | |
| **9:00 AM** | | **Clinical Translational Correlation**  **Colorectal Cancer** | **1.5 hour** | **Marcia Cruz-Correa, MD** | **UPR** |
|  | | **Anal Cancer & HPV**  **Overview of PR Registry &Stats** | **1.5 hour** | **Ana Patricia-Ortiz, PhD** | **UPR** |
|  | | **Genetic Ancestry and Breast Cancer** | **1.0 hour** | **Julie Dutil, PhD** | **PSM&HS** |
| **1:00 PM** | | **The Immune System and Cancer** | **3.0 hours** | **Willem Overwijk PhD** | **MDACC** |

MCC 11.15.14