

## Module 2

**Dalhousie University**  
**Faculty of Agriculture**  
**AGRI5710 - Molecular Nutrition**  
**Fall 2013**  
**Schedule: Wed., Oct 30-Nov. 27, 2013 (5 meetings)**  
**Time/Location: TBD**

### **Instructor**

Dr. Chibuikwe C. Udenigwe  
Office: Cox 124  
cudenigwe@dal.ca, Phone: 902 893-6625

### **Module Description**

Discussions, presentations and critical reviews will be focused on interactions between nutrients and physiological molecules during aberrant human or animal health conditions. Module activities will be based on literature information on the roles of primary nutrients and secondary metabolites of natural (preferably food) origin in ameliorating health conditions through interactions with abnormal physiological processes. Students will focus on the respective metabolic diseases or health conditions that they studied in Module 1.

### **Requirements**

Students must take Module 1 (Molecular Basis of Health and Diseases, Oct. 2013) as prerequisite. **Capacity: Five (5) graduate students.**

### **Module Content**

Weekly meetings will involve discussions led by the instructor and students. Students are required to choose a primary nutrient, natural compound or biopolymer of particular structure with established function in modulating aberrant health-related processes in human or animal models. The final topic must be discussed with the instructor during the first day of class (Wed Oct. 30, 2013). The student will conduct a thorough study on the selected nutrient-disease interaction and lead a 30-minute class discussion on the topic. The presentations will be evaluated by the instructor and peers. Students are required to write a mini-review to summarize their study focusing mainly on information reported in peer-reviewed original journal articles published after 2008. The paper should be written following the format of the paper in Module 1 and must be 10-15 pages in length (excluding cover page, references, figures, tables), double line spaced with 12-pt Times New Roman font and 1-inch page margins.

### **Evaluation**

Participation\* (20%), Paper (60%) and Presentation (20%)

\*Based on contributions during in-class discussions

### **Materials**

There is no required textbook for this module. Topics for class discussions will be derived from peer-reviewed scientific journals, and any other relevant materials will be distributed before or during the class meetings.