

Project report submitted in Microsoft Word version. Do not provide a pdf version.

Project Leader (PI): Dr. Wen-Hsing Cheng

Co-PI(s): N/A

Collaborator(s): Drs. Zee Haque, Barakat Mahmond, Dipaloke Mukherjee

Objective(s): Survey of the content of minerals and heavy metals in the major commodity foods is completed

Milestones for FY 2016-17 (April 1 2014 to March 31, 2016):.

1. List your project title in a separate line,
Detection and characterization of chemical residues in major crops, live stocks and aquatic foods produced in Mississippi
2. and describe if Milestones met or not, in terms of
Fully met
Partially met
Substantially met
Or Not met
Give a brief explanation if the objective/milestone not met or partially met.

Progress Report:

- Sampling of catfish and oyster from Mississippi, Louisiana and Texas.
- Acid digestion of catfish and oyster samples
- ICP-MS analysis of Se, As, Cd, and Pd

Accomplishments

Significant Activities that Support Special Target Populations: (100 words or less)

Residents frequently consuming local seafood in the downstream states of Mississippi River (Mississippi and Louisiana) are likely to be vulnerable to heavy metal contaminations. Understanding heavy metal contents in these local seafood is likely to provide important health-related information for this population.

Technology Transfer: Describe the nature of the transfer

Number of new CRADAs: None

Number of active CRADAs: None

Number of new MTAs (providing only): None
Number of invention disclosures submitted: None

Patent Disclosure. Describe number and title. N/A

US Patent Application, describe the number and title

- 0 Number of new germplasm releases
- 0 Number of new commercial licenses granted
- 0 Number of web sites managed
- 0 Number of non-peer reviewed presentations and proceedings
- 0 Number of newspaper articles and other presentations for non-science audiences
- 0 Number of other technology

International Cooperation / Collaboration

List any agreements: None

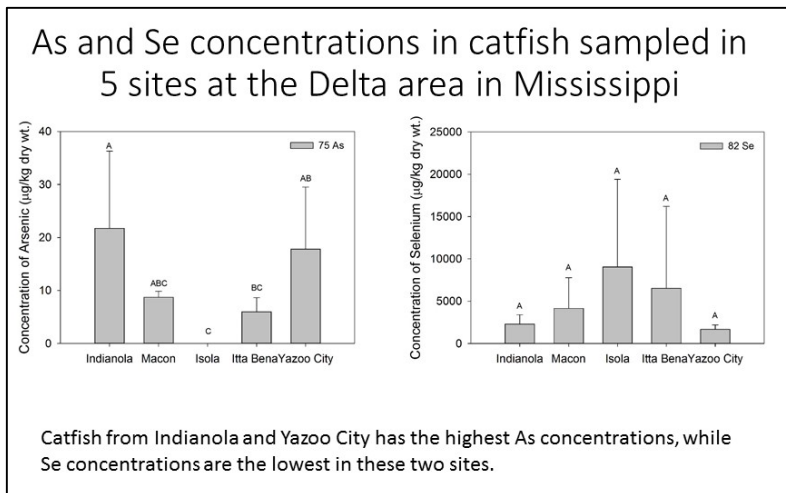
Publications: Please use the following format, examples

Zhang, X., Zhang, L., Zhu, J.-H., and Cheng, W.-H. (2015). Nuclear Selenoproteins and Genome Maintenance. *IUBMB Life*, 68: 5-12.

Presentations: Please use the following format

None

Please attach a photo or figure with a brief explanation to showcase the achievement of your project that will be placed on our food safety research website



Thank you very much.