

## **Genome Sciences Seminar**

Wednesday, 4.27.22 | 3:30 | Foege Auditorium

remote viewing option: https://depts.washington.edu/gsrestrc/remote.htm



**Dr. Thelma Madzima**Assistant Professor
University of Washington, Bothell

## "Epigenetic & abiotic stress mediated transcriptional regulation in maize plants"

The long-term goal of my research program is to understand how epigenetic mechanisms facilitate responses to abiotic stress in plants.

I use maize (*Zea mays*) as my predominant organism of study. Maize is an essential agronomical crop; important to global agriculture and the United States economy. Maize yield can be significantly affected by environmental, abiotic stress factors such as drought, salinity, cold, UV-B radiation and nutrient deficiency. The impact of environmental stress can significantly affect global food security and the U.S. economy.

I use molecular, genetics and genomics approaches to understand stress response mechanisms at the transcriptional level. I am specifically interested in how *epigenetic* mechanisms, associated with modifications to chromatin, regulate plant stress response. Understanding the fundamental mechanisms of epigenetic responses to environmental stress factors will be useful in improving agricultural productivity.

http://thelmamadzima.squarespace.com/

Questions? Contact Brian Giebel at bgiebel@uw.edu or visit the Seminar website at http://www.gs.washington.edu/news/seminars.htm

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