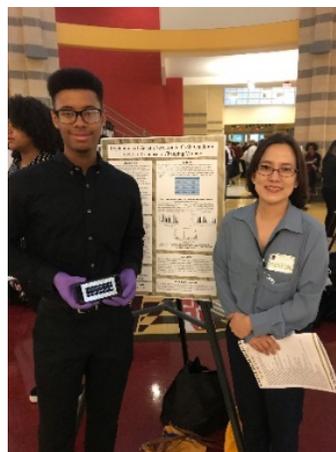






- **Education and Outreach**

On May 2, two high school students, Ms. Tristan Johnson and Mr. Joshua Lewis, under the mentorship of Dr. Jinyoung Barnaby (DBNRRC), presented a poster entitled “Exploring naturally existing genetic variation in grain chalk formation in response to changing climate” at the Oxon Hill High School STEM Fair. (L): Ms. Tristan Johnson and Dr. Jinyoung Barnaby, (R): Mr. Joshua Lewis and Dr. Jinyoung Barnaby. Joshua was selected as one of top five best presenters.



On May 4, Dr. Jinyoung Barnaby participated in Korean-American Women in Science and Engineering NIH-Greater DC Chapter joint symposium and served as a moderator for the panel discussion session on Life Science and Data Science. She was also elected as president of the DC Greater Chapter of Korean-American Women in Science and Engineering society for 2019-2020.

On May 14, approximately 100 6<sup>th</sup> graders from Dewitt, AR visited DBNRRC. The students participated in three hand-on activities: DNA extraction with the Molecular Genetics laboratory, rice processing, milling and grain chemistry analyses with the Grain Quality laboratory, and rice disease evaluation in the greenhouse with the Plant Pathology laboratory. Participants were Melissa Jia, Aaron Jackson, Brenda Lawrence, Dr. Trevis Huggins, Lorie Bernhardt, Quynh Grunden, Jace Everette, Dr. Ming Chen, Heather Box, Alan Sites, and Dr. Yulin Jia.



On May 16, Dr. Cristina Fernandez-Baca (below left picture, in orange top) talked to visitors from the Maryland native plant society group who were on a tour of USDA-ARS BARC facilities led by Dr. Lewis Zsika. She and Dr. Jinyoung Barnaby showed their greenhouse experimental setup and explained their research project on arsenic uptake in rice. Drs. Fernandez-Baca and Barnaby are DBNRRC researchers conducting studies in collaboration the Alternative Cropping System Lab in Beltsville, MD.



On May 17, Dr. Jinyoung Barnaby's proposal entitled "Altering plant-soil-microbe interactions through irrigation management reduces rice grain arsenic accumulation" was selected to receive funding from Friends of Agricultural Research – Beltsville (FAR-B) that will support a summer 2019 intern.