Shixia Huang

Professor and Core Director

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https://www.bcm.edu/people-search/shixia-huang-23469

STEM education and outreach Panel

Training and Education in Core Facilities

This talk will explore the development and impact of innovative educational programs leveraging advanced technologies at Baylor College of Medicine core facilities. Key initiatives include the BRITE program, which offers hands-on research technology experiences for middle and high school teachers, supported by a $1,250,000 NIH R25 grant; the Collaborative Cancer Research Education Program (C-REP), funded by the NIH P20 grant, providing Texas Southern University students with immersive summer research training; and a high school student symposium, which engages students in biotechnology and biomedical research, alongside the ASPIRATION program that introduces high school students to adapting primary literature for STEM education. Attendees will gain insights into integrating advanced technology in educational programs and fostering student engagement in research.

Speaker Bio

Shixia Huang, PhD is the director of Antibody-based Proteomics Core and professor at the Dept of Molecular and Cellular Biology and Huffington Dept of Education, Innovation and Technology, Baylor College of Medicine. With expertise in cancer research and advanced technology development spanning over two decades, she has served as core director at genomics and proteomics facilities, developed advanced technologies in genetic engineering, genomics, and proteomics, supported research programs and co-authored over 80 publications.

Dr. Huang provides advanced technology education and training to students and faculty at academic institutions and secondary school communities, including establishing and leading Biotechnology Incubator for Teachers and Students (BRITE) with the support of NIH R25 Science Education Partnership Award. Dr. Huang is the BCM Lead of Collaborative Cancer Research Education Program (C-REP) for the BCM/TSU MH P20 Collaborative Union for Cancer Research, Education, and Disparities (CURED) program. More info: WWW.BCM.EDU/BRITE Dr. Huang serves on the education and training committees of Human Proteome Organization (HUPO) and Association of Biomolecular Resource Facilities (ABRF), advancing training on technologies both nationally and internationally. Dr. Huang also serves on the ABRF the Diversity Equity Inclusion and Belonging (DEIB) Council.