

# WORLD OF GENOMICS WORLD OF GENOMICS WORLD OF GENOMICS

CARL R. WOESE INSTITUTE FOR GENOMIC BIOLOGY  
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

## THE WORLD OF GENOMICS AT THE SAINT LOUIS SCIENCE CENTER PRESENTED BY THE CARL R. WOESE INSTITUTE FOR GENOMIC BIOLOGY

The World of Genomics, presented by the Carl R. Woese Institute for Genomic Biology (IGB), brings the full scope of our research in health, technology, and the environment to the public with hands-on activities and exhibits for all ages, designed to make the broadest impact on the largest audience.

The World of Genomics exhibition has six interactive learning stations staffed by IGB researchers, and features hands-on learning with state-of-the-art microscopy, robotics, activities and artifacts. These exhibits showcase the breadth and depth of IGB research in engaging and creative ways, encouraging active participation by attendees. The World of Genomics is funded in part by generous research support from organizations such as Advanced Research Projects Agency-Energy (ARPA-E), Bill & Melinda Gates Foundation, Department of Energy

(DOE), Howard Hughes Medical Institute (HHMI), National Aeronautics and Space Administration (NASA), National Institutes of Health (NIH), and National Science Foundation (NSF).

Our debut was at the Chicago Field Museum in May 2017 for Members' Nights and local school students and museum visitors over a three day period. The World of Genomics at the Saint Louis Science Center will take place October 18-20, 2018 for a projected audience of over 6,000 visitors.



**CARL R. WOESE & THE IGB:** Get to know the IGB, one of the first interdisciplinary research institutes of its kind, and find out about how our namesake changed the face of biology and evolution as we know it.

**BRAINS & BEHAVIOR:** Learn how genes affect behavior and health by examining bee brains in 3D alongside an observation hive with live bees.

**FOOD & FUEL:** See how scientists are learning to grow enough food for tomorrow by using computer vision to identify better crops.

**DNA TO DRUGS:** Witness the drug discovery pipeline in action, critical for combating growing antimicrobial resistance.

**PERSONALIZED HEALTH:** Learn about the ways in which each

human is unique by exploring next-generation therapeutics and meeting the microbial community that lives inside you.

**EMERGENCE OF LIFE:** Observe how life begins and adapts in our ever-changing world by interacting with samples of the earliest microorganisms, prehistoric life and more.