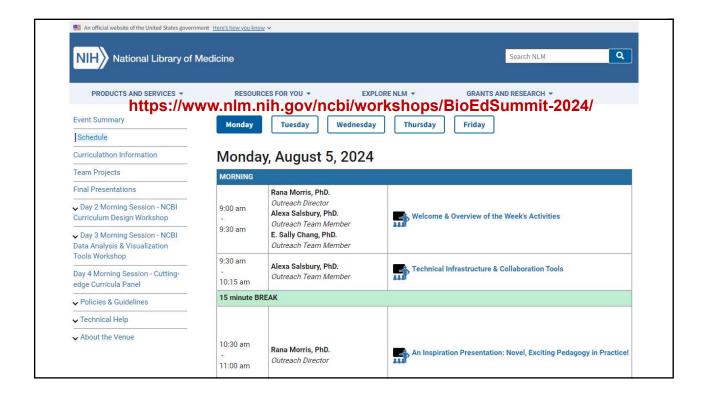


BioEd Summit: Crafting Student-Centric Curricula with NCBI Resources We were pleased to host a week-long, in-person event for science educators across the U.S. to come, interact and collaborate with each other in teams in a codeathon-style curriculathon. The goal was for them to develop exciting curricular packages (including learning objectives, course materials, and assessments) that they would be able to use in their classrooms/courses. During the week, we held interactive workshops on NCBI resources and a panel discussion on employing novel, data-driven, active learning exercises in science classes. At the end of the week, the teams will present their work to each other, NIH staff and the scientific education community, colleagues and friends. Learn more about the BioEd Summit: https://www.nlm.nih.gov/ncbi/workshops/BioEdSummit-2024/



BioEd Summit: Crafting Student-Centric Curricula with NCBI Resources

NCBI Outreach Leads:

Rana C. Morris, PhD E. Sally Chang, PhD Alexa M. Salsbury, PhD

NNLM Region 3 Regional Medical Library (UNT)

Brian Leaf & Kalei Malczon-Dorris

NCBI Outreach Support:

Barb Cerny Michelle Formica-Frizzi Dana Casciotti, PhD Wayne Matten, PhD Jiyao Wang, PhD

NLM OET:

Blair Anton & Martha Meacham

NIH National Library of Medicine
National Center for Biotechnology Information

This work was supported by the National Center for Biotechnology Information of the National Library of Medicine (NLM), National Institutes of Health.





BioEd Summit: Crafting Student-Centric Curricula with NCBI Resources

30 participants

from 16 States and Puerto Rico

Working with students at:

- 7 High Schools
- 9 Community/Junior Colleges
- 5 Colleges/Universities: Bachelors-granting
- 4 Universities: Masters-granting
- 2 Universities: Doctoral Research 2-level
- 5 Universities: Doctoral Research 1-level

Teaching courses including:

- High School, AP & College Biology
- Biochemistry, Chemistry, Toxicology, Pharmacology
- · Cell & Molecular Biology
- Genetics
- Microbiology
- · Anatomy & Physiology
- · Evolutionary Biology
- Environmental Science, Biology & Chemistry
- Bioinformatics



BioEd Summit: Crafting Student-Centric Curricula with NCBI Resources

Jeffrey Robinson
Katie Sandlin
Kehinde Idowu
Kelly Vaughan
Cynthia Woosley
Hattie Dambroski
Michael Peglar
Marie Montes-Matias
Jennifer Schroeder
Lia Walker

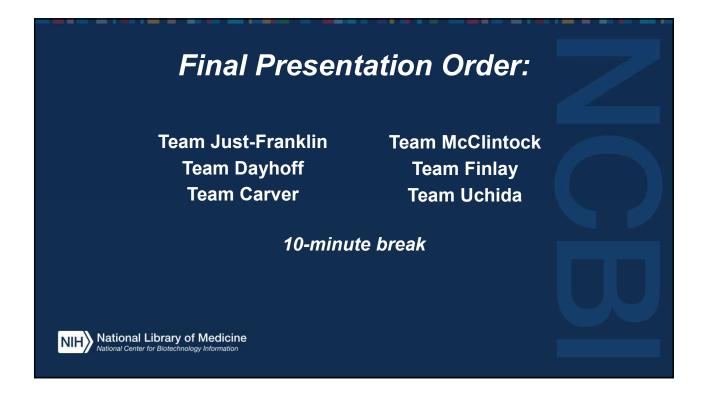
Kaitlin Bonner
Natalie Minkovsky
Cathy Dobbs
Karla Fuller
Morgan DAusilio
Nirmal Singh
Ferdinand Nanfack-Minkeu
Deirdre O'Mara
Richard Zimny
Mary Knight

Brandon Boswell
Ifrah Shahi
Heather Patterson
Gabriel Guzman
Kari Severson
Ning Sui
Shweta Tripathi
Antonio Colom
Nik Tsotakos
Pradip Misra









The importance of personalized genomics in breast cancer diagnosis and treatment: A case study involving the androgen receptor gene

Team Just - Franklin

- Nik Tsotakos, Ph.D. Penn State Harrisburg
- Antonio Colom, Ph.D. Interamerican University of Puerto Rico, Metropolitan Campus
- Morgan D'Ausilio, Ph.D. The Pingry School
- Pradip Misra, Ed.D. Bagdad Unified School District
- Deirdre O'Mara, B.A. The Pingry School
- Nirmal Singh, Ph.D. MassBay Community College
- Ning Sui, Ph.D. North Carolina State University
- Shweta Tripathi, Ph.D. Tuskegee University



Molecular Basis of Insulin Receptor Function Using NCBI Tools

Team Dayhoff

- · Kelly Vaughan, Ph.D. King University
- Kehinde Idowu, Ph.D. Texas Southern University
- Jeffrey Robinson, Ph.D. University of Maryland Baltimore County
- Katie Sandlin, M.S. Genomics Education Partnership / The University of Alabama



NCBI

Sublime Dynamite

Team Carver

- Richard (Jake) Zimny, B.A., M.Ed The School District of Philadelphia, Pennsylvania
- Brandon Boswell, B.S. Broward County Public Schools, Florida
- Mary Knight, B.S., M.Ed Arlington Public Schools, Virginia



In the Weeds: Genomic Analysis of Glyphosate Resistance in Crop Fields

Team McClintock

- Jennifer Schroeder, Ph.D. Young Harris College
- Hattie Dambroski, Ph.D. Normandale Community College
- · Marie Montes-Matias, Ph.D. Union College of Union County, New Jersey
- Michael Peglar, Ph.D. Northern Virginia Community College, Annandale Campus
- Cynthia Woosley, M.S. Virginia Highlands Community College



NCBI

Flu Fighters

Team Finlay

- · Heather Patterson, Ph.D. University of Alabama at Birmingham
- · Gabriel (Gabe) Guzman, Ph.D. Triton College
- Ferdinand Nanfack-Minkeu, Ph.D. College of Wooster
- · Kari Severson, Ph.D. Rockford University
- Ifrah Shahi, Ph.D. University of Pennsylvania / Children's Hospital of Philadelphia



A Tale of Two Diabetes

Team Uchida

- Natasha (Natalie) Minkovsky, Ph.D. Community College of Baltimore County
- · Kaitlin Bonner, Ph.D. St. John Fisher University
- · Cathy Dobbs, Ph.D. Joliet Junior College
- Karla Fuller, Ph.D. Guttman Community College CUNY
- · Lia Walker, Ph.D. Chowan University



