

# 2018 BIOTECHNOLOGY/ AP PREP WORKSHOP



Thursday, July 12

8:30 am - 5:30 pm

UND School of Medicine & Health Sciences  
1301 N Columbia Rd, Grand Forks, ND 58202

## WHO SHOULD ATTEND?

- High School Science Teachers (AP and general)
- Middle School Science Teachers
- Limited to 24 participants

## HOW CAN YOU ATTEND?

Go to <https://https://tinyurl.com/BiotechAP18>.

## FOR THE ATTENDEES

- No cost – participants will receive a \$200 stipend for completing the workshop
- Professional development credits may be available
- Access to borrow equipment (PCR thermal cycler, electrophoresis chambers, etc..) to perform experiments in your classroom
- Learn new laboratory exercises covering topics relevant to the AP biology curriculum and adaptable to general science classes

## HANDS-ON TRAINING WITH THE BIO-RAD BIOFUELS, PGLO TRANSFORMATION, AND ELISA IMMUNO EXPLORER KITS

- Use cellobiase activity of mushroom extracts to explore biofuels
- Determine optimal conditions to increase enzymatic reaction rate
- Observe bacterial transformation
- Perform protein purification
- Use ELISA to track disease outbreak

## QUESTIONS?

Contact Karen Cisek at [karen.cisek@med.UND.edu](mailto:karen.cisek@med.UND.edu) / 701.777.6377

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