

NDSU INBRE MONTHLY UPDATE



Year 3/ July 2016

JUNE HIGHLIGHTS

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STUDENT SPOTLIGHT

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TRAINING MODULE PROGRESS

The INBRE team met with faculty from Cankdeska Cikana Community College and Turtle Mountain Community College this past month to discuss the progress of the research training modules. The INBRE faculty developed a series of research training modules to be implemented at the tribal colleges this past school year, and are now looking to refine the modules' content.

Great feedback was gathered from these meetings. The INBRE team discovered that a series of modules pertaining to introductory research topics, may be most appropriate to administer to the TCU students. Using this feedback, the INBRE team plans to work with faculty at NDSU to create research training modules which cover introductory research topics such as how to cite literature, the scientific method, and analyzing the content of a research paper. In addition, the existing modules are being modified for TCU faculty to use as a tool to engage their students in research fields available to them.

If you have any ideas pertaining to the new development of the training modules, or if you would like to be part of creating the modules, please contact Pearl Walker-Swaney at pearl.walker@ndsu.edu.

AIR QUALITY UPDATES

Students at Nueta-Hidatsa-Sahnish College will continue their collection of air samples this year. One student, Florence Laducer-Garrett, will be travelling to NDSU to meet with Dr. Bernhardt Saini-Eidukat to learn more about the sample analysis process. She will be staying in Fargo for a few days to work in the NDSU labs. Here, she will use the lab equipment to analyze some of the samples that have been collected and prep samples for the next round of collection. The students' overarching goal is to see how the particulate matter content of the filter may have impacts on health.

STUDENT SPOTLIGHT

Memphis Belgarde is a member of the Turtle Mountain Band of Chippewa Indians and is a second-year student at Turtle Mountain Community College (TMCC). She attended the Summer Undergraduate Research Program in 2015 and 2016 and is studying biology. Memphis worked with Dr. Lyle Best this past year on a study titled, "Genetics and Preeclampsia." This study aims to learn more about how genetic factors affect a mother's susceptibility to developing high blood pressure during her pregnancy. Memphis' role in the research involves investigating Single Nucleotide Polymorphisms (SNPs) for genetic variation. This has been a great experience for Memphis; she has enjoyed working in the lab and learning more about medical research.

After Memphis completes her degree at TMCC, she plans to attend medical school to become a Family Medicine physician. Memphis is also passionate about public health and aspires to earn her Master of Public Health degree. In her spare time, Memphis is an experienced crafter. Memphis enjoys making beaded earrings and recently completed an entire beaded wallet. We are grateful to have had such a talented and motivated participant join our 2016 SURP program.

We are very excited to learn more about Memphis' future educational achievements!



Memphis Belgarde – Photo Courtesy of Memphis Belgarde

LITERATURE REVIEW ADDITIONS

The INBRE team has been researching new material to enhance next year's SURP program and INBRE's current projects. The team recently found two articles which share great information related to undergraduate student research. Two articles contained content related to student engagement with undergraduate research opportunities. These articles emphasize the importance of pairing students with faculty to gain hands-on research experience and the benefits of undergraduate students presenting their work at conferences and other events. To learn more about these publications, please see the references cited below:

Deonandan, Raywat, James Gomes, Eric Lavigne, Thy Dinh, and Robert Blanchard. "A Pilot Study: Research Poster Presentations as an Educational Tool for Undergraduate Epidemiology Students." *Advances in Medical Education and Practice* (2013): 183. Web.

Kinkel, Doreen H., and Scott E. Henke. "Impact of Undergraduate Research on Academic Performance, Educational Planning, and Career Development." *Natural Resources and Life Sciences Education* (2006): 35. Web.

NDSU NORTH DAKOTA
STATE UNIVERSITY

If you would like to submit an opportunity, story for student spotlight, or have suggestions on what to include in the next monthly update, please contact us!

WE VALUE YOUR INPUT!

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STUDENT OPPORTUNITIES

National Tribal Forum on Community Health Practice

- August 30-31, 2016 in Spokane, WA
- Register at:
<http://www.cvent.com/events/national-tribal-forum/event-summary-fae3f09542b244a0abcf3a42421177d6.aspx?i=bf793864-3b03-4010-9ca9-5ffa5ba7a328>

The Christine Mirzayan Science & Technology Policy Graduate Fellowship

- Provides the opportunity to spend 12 weeks at the Academies in Washington, DC
- More information at:
<http://sites.nationalacademies.org/PGA/policyfellowships/index.htm>

ORISE Fellowships at the CDC, EPA, and FDA

- There are several available internships, learning opportunities, academic fellowships and scholarships
- More information at:
<https://www.zintellect.com/Posting/Catalog?SearchString=cdc>
<https://www.zintellect.com/Posting/Catalog?SearchString=epa>
<https://www.zintellect.com/Posting/Catalog?SearchString=fda>

2017 APHA Public Health Fellowship

- Opportunity to spend a year in Washington, DC, working in the house or senate with public health issues
- More information at:
http://action.apha.org/site/MessageViewer?em_id=62773_0&dvl_id=65349

ASPPH/NHTSA Public Health Fellowship Program

- The opportunity to work with national experts in injury prevention and motor vehicle and highway safety issues to examine the causes and etiology of motor vehicle crashes and injuries
- Deadline: August 11, 2016
- More information at:
<http://www.aspph.org/study/fellowships-and-internships/aspphnhtsa-public-health-fellowship-program/>

International Research Experiences for Students (IRES)

- Supports globally-engaged U.S. science and engineering students
- Deadline: August 16, 2016
- More information at:
<https://www.nsf.gov/pubs/2012/nsf12551/nsf12551.htm>

Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship

- Deadline: August 13, 2016
- More information at:
<http://grants.nih.gov/grants/guide/pa-files/PA-16-308.html>