



# Minot State University Research Presentation

SBHE Research and  
Governance Committee

September 16, 2020



# Division of Science Research Activity

- Geology
  - Paleogeography
  - Sources of ND sandstones
  - Water usage and recharge
- Chemistry
  - Novel fungicide synthesis (INBRE, EPSCoR)
  - Methamphetamine cleanup methods
  - Medicinal plant chemistry



# Schmidt Lab Research Activity

- Mode of action studies on fungicides (INBRE)
- Mode of action of antimicrobial peptides (INBRE)
- Peripheral effects of methamphetamine (INBRE)



Be seen. Be heard. BE INSPIRED.

# Schmidt Lab Research Activity

- Mode of action studies on fungicides (INBRE)
- Mode of action of antimicrobial peptides (INBRE)
- Peripheral effects of methamphetamine (INBRE)
- Mode of action studies on the novel coronavirus (Submitted)



Be seen. Be heard. BE INSPIRED.



Thank You



Heidi Super  
Sept. 16<sup>th</sup>  
SBHE Meeting  
Research and Governance Committee

"Being part of Minot State undergraduate research community helped me build the confidence and skillset to even see myself as a future scientist. When I say, undergraduate research opens up avenues not just for career but for life- I see myself as an example. Undergraduate research at Minot State first helped me dream and then equipped me to fulfill my dream."

Bikalpa Ghimire

BA Biology 2109







# INBRE—IDeA Networks for Biomedical Research Excellence (2004-2020 and beyond!)

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# Undergraduate Research Benefits

- Recruiting Faculty
- Faculty satisfaction, promotion, collaboration
- Grant opportunities—F and A for institution
- Public exposure

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- Recruiting Students
- Student engagement and satisfaction
- Student progression—post baccalaureate, in state, out of state
- World/life exposure—external validation
- Student-faculty mentoring relationships

# Undergraduate Research Challenges

- Large teaching loads
- No load credit for undergraduate research mentoring
- Limited grant opportunities, limited facilities, limited collaboration
- Perception—not a research university
- Limited adjunct pool
- Varying needs for budget and productivity

# They captured their dreams...

- Physicians (4). \*All UND graduates/students
- Veterinarian-(2)
- Ph.D. (6) \*1 UND
- MS (1)
- PT (1)
- MLS (1)



They can go anywhere from  
here....