

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)



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)





Thank You

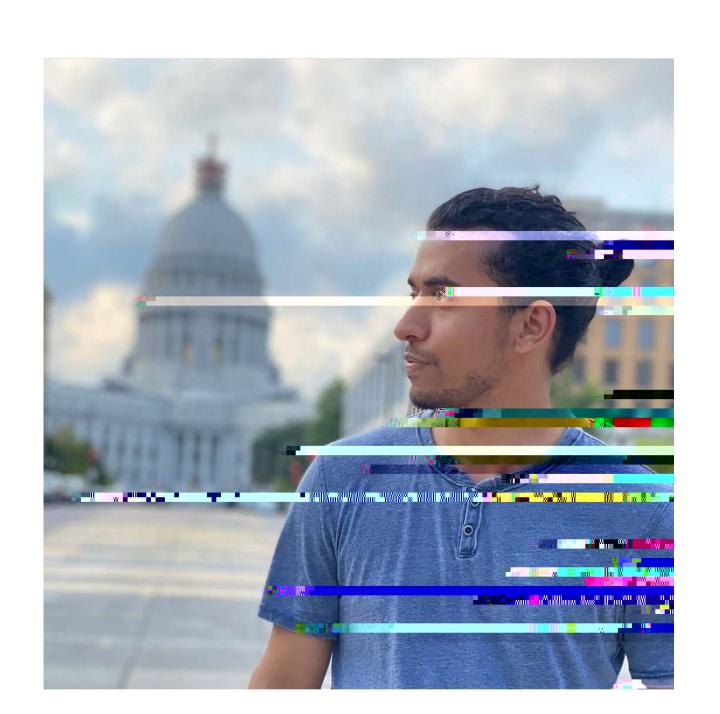


Heidi Super
Sept. 16th
SBHE Meeting
Research and Governance Committee

"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 Neworks for Biomedical Research Excellence (2004-2020 and beyond!)

Undergraduate Research Benefits

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

- 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....