



Project Goal:

To see if inhalation of uranium bearing dust affects the cells in the immune system

Principal Finding:

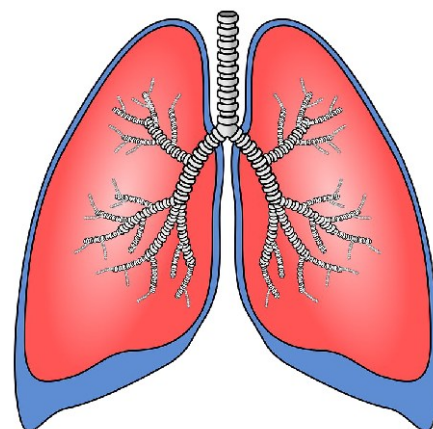
Immune cell dysregulation occurs in the lungs and spleen after exposure to uranium bearing dust

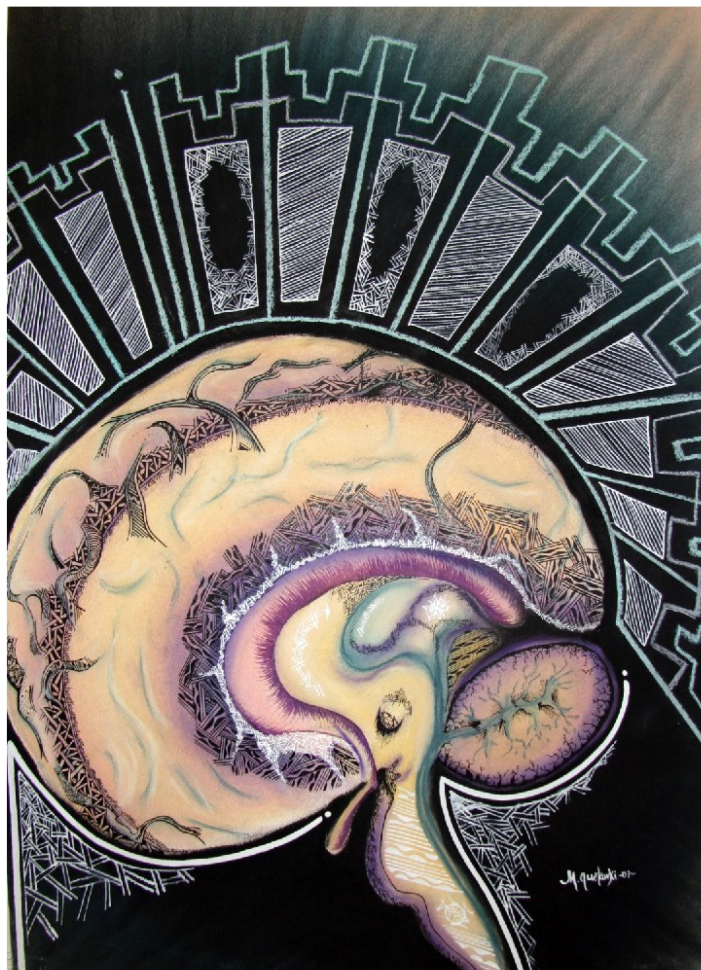
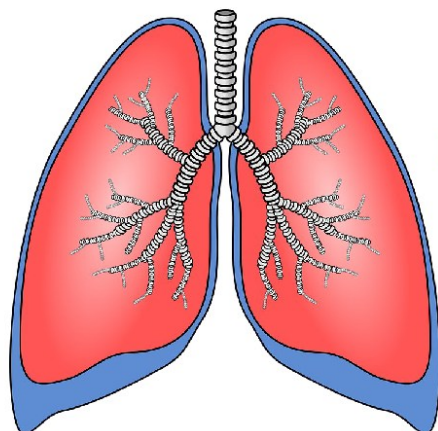
What does this mean for your community?

This research found that the Jackpile mine dust affects immune system cells in mice and may be affecting the immune system of the people.

How to cite this research:

Moreno J., Afaghpour-Becklund M., McVeigh C., Yazzie S., Edeh O., Baird B., Lui R., Zychowski K., Blossom S. and Bolt A. Development of an Autoimmune Prone Disease State Following Inhalation Exposure to Uranium Bearing Dust in MRL/MpJ Mice. Jackpile Mine Symposium. April 22, 2025. Pueblo of Laguna, NM.





Art By Mallery Quetawki (Zuni)

Project Goal:

Using visual charts to study the effect of wildfire smoke on the brain.

Principal Finding:

Woodsmoke causes changes in the chemical process that helps the brain function and work.

What does this mean for your community?

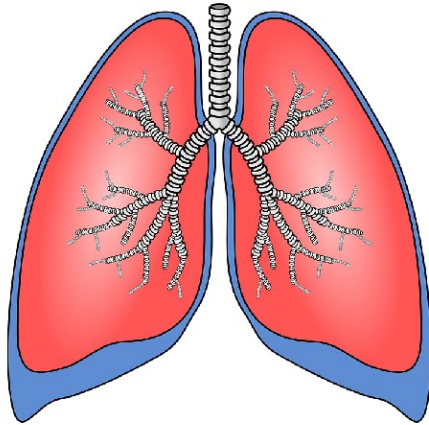
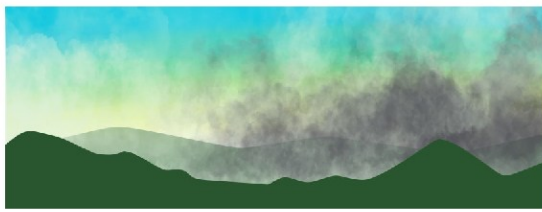
This study will help us learn about the harmful effects of wildfire smoke.



Art By Mallery Quetawki (Zuni)

How to cite this research:

Suh, E., Begay, J., Barr, E., Herbert, G., Lucas, S., Noor, S., Gu, H. and Campen, M. Using visual charts to study the effect of wildfire smoke on the brain. Jackpile Mine Symposium. April 22, 2025. Pueblo of Laguna, NM.



Art By Mallery Quetawki (Zuni)

Project Goal:

To see if ovarian hormones play a role in the brain's response to wood smoke exposure

Principal Finding:

When female mice experience ovarian hormone loss (similar to menopause) there is an increase of brain inflammation and alterations to brain cell types after wood smoke exposure

What does this mean for your community?

This study helps look at how wood smoke exposure affects people with chronic health conditions such as ovarian failure

How to cite this research:

Yazzie S., Edeh O., Mackowski K., Lim E., Oh M., Wardhani K., Dixon C., Barr E., and Zychowski K. Ovarian Hormone Modulation of Neuroinflammatory Response to Wood Smoke Exposure in an Accelerated Ovarian Failure Mouse Model. Jackpile Mine Symposium. April 22, 2025. Pueblo of Laguna, NM.



Art By Mallery Quetawki (Zuni)

Lung Study