While research done on animals is essential to fighting inflammation & advancing biomedicine...the animals must be treated in a humane way.

**Dynamic duo**

**Mice & Men**

**Fighting inflammation**

**Autoimmune disease**

TNF-a is, according to the National Library of Medicine, a protein secreted by the immune system thought to induce inflammation inside some human bodies by attacking otherwise healthy cells through apoptosis (cell death).

It may cause pain in white blood cells attack aligns with bad TNF-a, thus blood cells build up if what causes inflammation & internal swelling.

**Antibody**

**Life saving medicine**

**Autoimmune disease**

**TNF-a**

TNF-a is a cytokine that promotes inflammation. It is produced by immune cells in response to stimuli such as infection, injury, or tissue damage. High levels of TNF-a can cause severe inflammation and toxic shock syndrome. It can also contribute to the development of certain diseases, including rheumatoid arthritis, systemic lupus erythematosus, and psoriasis.

**Autoimmune diseases**

Autoimmune diseases involve the body's immune system attacking its own tissues and organs. This can lead to chronic inflammation, tissue damage, and a range of symptoms. Examples include type 1 diabetes, multiple sclerosis, rheumatoid arthritis, and lupus.

**Animal research saves lives**

Animal research is crucial for understanding human diseases and developing effective treatments. By studying animal models, scientists can gain insights into the biology of human conditions and test potential therapies in a controlled setting.

**With volunteer research collected from mice, TNF-a blocking medication could be made available to the autoimmune patients who need them.**