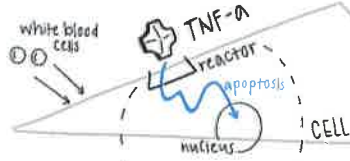


While research done on animals is essential to fighting inflammation & advancing bio-medicine... lab animals must be treated in a humane way!

Bio-medical research should enhance the lives of all organisms: humans, other animals, & "lab rats" alike. According to the AKC, "anti-inflammatory" medications & dietary supplements are used to help arthritic dogs (and humans) alleviate pains.



fighting TNF-ALPHA

NOT only can high levels of TNF-alpha permanent damage & scar muscles, organs, and skin...

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

... it CAN CAUSE pain as white blood cells attack alongside bad TNF-alpha; this blood cell build-up is what causes inflammation & internal swelling.

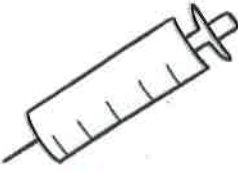
# dynamis

mice & men

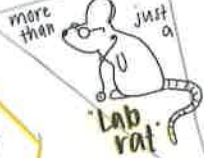
fighting

IN FLAMMATION

# duo



to make infliximab, a mouse & human gene were combined to form an "IgG antibody" - a clone of a unique white blood cell that prohibits excess TNF-alpha from causing apoptosis in healthy cells (World Journal of Gastroenterology).  
Infliximab is the 1st & only TNF-alpha blocker to be certified by the FDA. It's under the name "Remicade" & given thru infusion shops (Drug.com). It's almost as if you can see "Mice" in the name.



Animal research saves LIVES

Without valuable research collected from mice, TNF-alpha blocking medications like infliximab would not be available to the autoimmune patients who need them.



with chemical changes to fit humans

life saving medicine

Auto-immune diseases include many chronic illnesses like ulcerative colitis, arthritis, & diabetes (type 1), all of which are caused/characterized by high levels of proteins like TNF-alpha attacking healthy body systems & the resulting damage & inflammation caused by this act on autoimmune diseases are treated differently, but the use of anti-TNF-alpha drugs can treat many of these ailments. (Mayo Clinic)

My friend suffers from an autoimmune condition known as chronic inflammation in the intestines. She uses an anti-TNF-alpha called "Infliximab" to block her inflammation and live practically symptom-free, or in remission.

Some forms of autoimmune disease are treated without the blocking of TNF-alpha. Diabetes, for example, is not characterized by inflammation but by a defect caused in the pancreas by autoimmune attacks. Type 1 Diabetes is treated by fulfilling veins in sugar management manually - things that healthy pancreas does on its own. (Children's Hospital of Philadelphia)

