



# Animal Research Saves Lives

## Facts on Studies with Dogs

Canines

The Federation of American Societies for Experimental Biology (FASEB) affirms the essential contribution of animal research aimed at improving the health of both humans and animals. Dogs remain critical in understanding the fundamental processes of life and in developing treatments for injury and disease.

### CANINE RESEARCH HELPS PEOPLE

#### Treatments for Diseases

Alzheimer's Disease	Cleft palate
Anxiety	Epilepsy
Arthritis	Heart disease
Asthma and COPD	Hemophilia
Birth defects	Lou Gehrig's disease
Cancer	Narcolepsy
Cataracts	Retinal degeneration

#### Innovations

Cancer detection
Genetic testing
Insulin
Open heart surgery
Organ transplants
Pacemakers
Vaccines



### CANINE RESEARCH HELPS DOGS

#### Treatments and Therapies

Anxiety	Distemper/Rabies	Heart Disease	Lyme Disease
Arthritis	Epilepsy	Hemophilia	Obesity
Cataracts	Flea/Tick repellants	Hip replacement	Parasites
Cleft palate	Genetic testing	Influenza	Vaccines

Dogs and humans have 82% genome similarity and share many of the same diseases.

**Less than 0.5% of animals used in research are dogs<sup>1</sup>.**

Dogs were essential in developing 22 of the 25 most prescribed drugs in the U.S. in 2014.<sup>2</sup>

### CANINE RESEARCH IS CLOSELY REGULATED

- ❖ Studies include dogs only when necessary.
- ❖ Researchers and animal care staff are trained to work with dogs.
- ❖ Dogs are provided with food, veterinary care, interaction with other dogs and/or caregivers, and get regular exercise.
- ❖ An ethical review committee must approve all studies that involve dogs.
- ❖ The federal Animal Welfare Act regulates the care and use of dogs in research.
- ❖ All institutions where dogs are studied are subject to unannounced USDA inspections.
- ❖ Only dogs specifically bred for research are allowed in NIH-funded studies.

1. [http://www.cdc.gov/news/2006\\_11/animal\\_care/factsheet\\_ar\\_general.htm](http://www.cdc.gov/news/2006_11/animal_care/factsheet_ar_general.htm)  
 2. <http://www.nabr.org/biomedical-research/laboratory-animals/animal-research-behind-top-drugs/>

