



# Animal Research Saves Lives

## Facts on Studies with Non-human Primates

# Non-human Primates

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. Non-human primates (NHPs) remain critical in understanding the fundamental processes of life and in developing treatments for injury and disease.

### NHPs HAVE BEEN ESSENTIAL IN THE DEVELOPMENT OF:

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Anesthesia                         | Medication for lymphoma and arthritis |
| Anthrax vaccine                    | Medications to prevent spread of HIV  |
| Anti-rejection drugs               | Measles vaccine                       |
| Behavioral/Psychiatric medications | Neuroprosthetics                      |
| Corneal transplants                | Polio vaccine                         |
| Deep brain stimulation             | Tetanus vaccine                       |
| Hepatitis A/B vaccines             | Yellow Fever vaccine                  |



### NHP RESEARCH HAS CONTRIBUTED TO OUR UNDERSTANDING OF:

|                     |                         |                         |                             |
|---------------------|-------------------------|-------------------------|-----------------------------|
| Aging               | Cardiovascular disease  | Infertility disorders   | Regenerative medicine       |
| Alcohol/Drug abuse  | Cognition/Memory        | Malaria                 | Respiratory syncytial virus |
| Alzheimer's disease | Diabetes                | Mental health disorders | Spinal cord injury          |
| Asthma              | Ebola virus             | Obesity                 | Stem Cell/Gene Therapy      |
| Autism              | Effects of BPA exposure | Organ transplantation   | Tuberculosis                |
| Blood typing        | HIV/AIDS                | Parkinson's disease     | West Nile Virus             |
| Cancer              | Huntington's disease    | Periodontal disease     | Zika virus                  |

Macaques, the most common laboratory NHP, and humans have 93 percent genome similarity.

It is estimated that less than 0.5 percent of animals used in research are NHPs.<sup>1</sup>

NHPs were essential in developing 7 of the 25 most prescribed drugs in the U.S. in 2014.<sup>2</sup>

### NHP RESEARCH IS CLOSELY REGULATED

- ❖ Studies include NHPs only when necessary
- ❖ Researchers and animal care staff are trained to work with NHPs
- ❖ NHPs must be provided with environmental enhancements to promote psychological well-being
- ❖ With limited exception, NHPs must be socially housed with animals of the same species (i.e., at least two animals per cage)
- ❖ NHPs receive veterinary care from experts in the field
- ❖ The federal Animal Welfare Act regulates the care and use of NHPs in research
- ❖ All institutions where NHPs are studied are subject to unannounced USDA inspections
- ❖ A committee of scientists, veterinarians, and community representatives must approve all studies that involve NHPs

1. <https://speakingofresearch.com/facts/statistics/>  
 2. <http://www.nabr.org/biomedical-research/laboratory-animals/animal-research-behind-top-drugs/>

