



Fact Sheet
Research Animals and the Roles They Have Played
(Some Examples)

Primates

Polio vaccine
In vitro fertilization
Aging
Alzheimer's disease
AIDS
Gum disease
Rheumatoid Arthritis
Discovery of the Rh factor
Chemotherapy
Chlorpromazine and other tranquilizers
German Measles
Measles
Leprosy
Genetic factors
Cystic fibrosis

Pigs

Dermal tests: e.g. patches for travel sickness
Plastic and reconstructive surgery
Cardiovascular research: heart transplant,
pacemaker, etc.
Studies of stress
Hardening of arteries – nutrition
Organ transplant techniques
Minimally invasive surgery techniques
Laparoscopic surgical techniques
Diabetes

Sheep

Research on human pregnancy
Fetal alcohol syndrome
Vaccine for anthrax
Shunt for dialysis machine
Joint reconstruction
Organ transplant techniques

Horses

Diphtheria
Tetanus (Lockjaw)

Ferrets

Influenza virus
Reproductive research
Canine distemper
Toxicology research

Chinchillas

Hearing
Vaccine for cholera
Sleep research

Guinea Pigs

Vaccine for diphtheria
Treatment for whooping cough
Immune systems (antibodies)
Tuberculosis, pneumonia, spinal
meningitis and typhoid fever
Development of lithium

Hamsters

Lyme disease: hopeful vaccine
Diabetes

Woodchucks

Link between hepatitis B and human liver
Cancer

Mice

Understand tumors and treatment of
cancers
Abnormal fetal development
Organ transplants
Cancer, heart disease, blood-clotting
disorders
Deafness, epilepsy, muscular dystrophy,
Brain dysfunctions
Genetic model
How addictive drugs affect offspring
Vaccines: whooping cough, yellow fever
Penicillin and other broad-spectrum
antibiotics
Chemotherapy
Antipsychotic and
antidepressant drugs
Monoclonal antibodies
Gene therapy/replacement
Breast cancer
Cystic fibrosis
Leukemia
Multiple sclerosis
ALS (Lou Gehrig's disease)

Snakes

Biological activity at the cell surface

Rats

Hardening of arteries

Arthritis

Diabetes

High blood pressure

Organ transplants

Penicillin and other broad-spectrum antibiotics

Chemotherapy

Chlorpromazine and other tranquilizers

Development of lithium

Antipsychotic and antidepressant drugs

Gene therapy/replacement

Breast cancer

Fruit flies

Breast cancer

Leukemia

Armadillos

Leprosy

Monkfish

Insulin (diabetes) hormone research

Sea Urchins

Cancer/cell cycle

Rabbits

Rabies vaccine

Eye and ear infections

Emphysema

Cancer

Diabetes

Eye surgery

Skin disorders

Cardiac catheterization techniques

Whooping Cough

Rheumatoid Arthritis

Penicillin and other broad-spectrum antibiotics

Polio vaccine

Chemotherapy

Chlorpromazine and other tranquilizers

Monoclonal antibodies

Salamanders

Heart attack research

Cows

Smallpox vaccine

Organ transplant techniques

Cats

Brain research (epilepsy)

AIDS (Leukemia)

Cataract surgery

Lupus

Deafness

Spinal cord injury

Diabetes

Glaucoma

Development of anticoagulants

Dogs

Study of behavior

Organ transplant techniques

Heart transplant

Open-heart surgery

Cardiac pacemaker

Kidney transplant

Aging

Artificial hips and joints

Diabetes/Discovery of Insulin

Rabies vaccine

Treatment for rickets

Cardiac catheterization

Development of anticoagulants

Zebrafish

Genetics

Studies in the causes of blindness, deafness and mental retardation

Leeches

Stimulate blood circulation in reattached fingers

Saliva contains antibiotics and possible anti-cancer agents

Chickens

Treatment for beriberi — a vitamin B deficiency that causes heart and nerve impairment

Tuberculosis, pneumonia, spinal meningitis and typhoid fever

Leukemia

Marine sponges

Human immune system

Frogs

Antibiotics in skin that may kill certain cancer cells

Insects

Fly - genetic research