EFFECTIVE WAYS OF STUDYING BEFORE EXAMS

NEUROSCIENCE AND PHARMACOLOGY ANIMAL RESEARCH BREAKTHROUGHS

PCSK9 inhibitors are a new class of drugs, which were developed using research with rats, hamsters and monkeys, that lower LDL or “bad” cholesterol levels. The FDA recently approved two PCSK9 inhibitors (Praluent and Repatha), and these drugs have been found to prevent heart attacks or strokes in some cases.

Suboxone was developed following research in mice, rats, rabbits, primates and dogs. The medication is used to treat adults dependent on opioid drugs, as part of a medical, social and psychological treatment program to regain control of their lives.

Following research in rats, dogs, rabbits and monkeys, the FDA approved Tucatinib for patients with HER2-positive metastatic breast cancer. By approving Tucatinib the FDA has provided a potentially life-saving option to patients with inoperable, locally advanced or metastatic HER2-positive breast cancer.

CRISPR-Cas9 genome engineering technology enables scientists to easily and precisely edit the DNA of any genome. CRISPR has been used with animal models such as pigs, primates, rodents and canines.

Optogenetics is a technique that involves the use of light to control neurons that have been genetically modified to express light-sensitive ion channels. We can use optogenetics to learn how various networks of neurons contribute to behavior, perceptions and cognition with remarkable precision in a variety of species including mice, guinea pigs, rats and primates.

Pain Research

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Research with mice reveals the DJ1 protein is linked to Parkinson’s disease. Mutations in the gene associated with this protein cause a rare disease, due to problems with mitochondrial stress.

CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) genome engineering technology enables scientists to easily and precisely edit the DNA of any genome. CRISPR has been used with animal models such as pigs, primates, rodents and canines.

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Psychopharmacology Research

Following research in rats, dogs, rabbits and monkeys, Abilify was FDA approved to treat bipolar disorder, schizophrenia and Tourette syndrome, and is also used as a combination therapy for the treatment of depression.

Cardiovascular Research

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