

Animal Testing for Medical Purposes Should Be Accepted

立論

動物実験は様々な医学的分野で役立っている。動物と人間は異なるので、動物研究は人間の役に立たない、と主張する人もいるが、実際にはひとは生物学的に他の哺乳類と非常に似ており、心臓や肺、肝臓など同じように機能する臓器を持っている。また、両者には多くの遺伝的類似性がある。例えば、Business Insider の記事によると、人とマウスの遺伝子は約85%が同じである。したがって、新薬を用いた病気の治療効果を確認し、患者さんの安全性を調べるには動物実験が必要不可欠である。生きたまるとの試験動物をコンピュータ・シミュレーションや培養細胞に置き換える研究が盛んに行われているが、生きた動物を用いずに体内の複雑な生理機能を解析することは、現時点ではできない。一見、動物実験は人間にしか利益がないように見えるが、動物実験で得られた成果は動物の病気にも役立てられている。

Animal testing is very active in medical fields. (OR Animal testing has contributed a lot to a variety of medical fields.)

Some people (may) claim that animal testing is not useful because humans are very different from other species of animals. Actually, however, humans are very similar to other mammals. Humans have organs which work the same way as those organs that other mammals have, such as the heart, lungs and liver. Moreover, they have genetic similarity. For example, according to an the article in of Business Insider, about 85% of the genes of humans and the mouse have, respectively, are identical. is same. Therefore, it is necessary (OR essential) to perform animal testing for confirming the safety of a new medicines (for patients) as well as their efficacy. ~~to do animal testing.~~

Nowadays, scientists do actively the research to replace animal testing with computer simulations and ~~cultivation~~ cell culture technology. However, at this time, we can't fully understand complex physiological functions in of humans the human body without animal testing tests that use live animals.

At first glance, it seems like the results of animal testing contributes only to only humans, but (just imagine) it is also useful to treat the diseases of animals including our pets. sicknesses of animals. For instance, ~~it contributes to treat sicknesses of our pets.~~ Animal testing is necessary also to keep the health of animals.