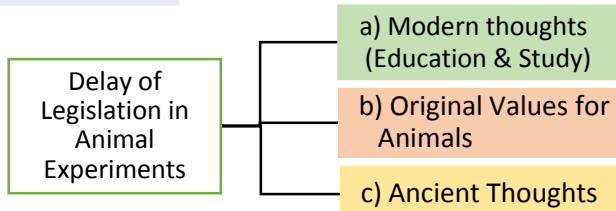


## 1. Introduction

Recently, with the development of technology in Life Science, the number of biological experiments has been increasing (MOE, 2013), and the problem is that legislation of laboratory animals in Japan is delayed in comparison with that in Europe and North America (Kagiyama, 2010). Considering a difference of historical outlook on animals between those countries and Japan (MOE, 2013), I built a hypothesis that delay of legislation was led by Japanese historical philosophy on animals from ancient times, which causes a feeling of cultural resistance to accepting the thoughts in Europe and North America.

## 2. Methods

1. Classified the topic into 3 groups



2. Researched from books, articles and webpages, and interviewed with professors of laboratory animal science

## 3. Results and Discussion

a) Modern thoughts---Education & Study

1. Education (Yokohama City University)



1. Duty to take a course about laboratory animals
2. Rules which are based on "Standards relating to the Care and Keeping of Industrial Animals"

2. Laboratory Animal Science (University of Tokyo)

Originally

New field of study to seek

- 1) **appropriate experimental results**
- 2) **Maximum Alleviation of suffering in experiments**

Presently

- Alternative to Animal Testing
- Humane Endpoint
- Five Freedoms
- Classification of suffering etc.



Ethical consideration from **scientific perspectives**

## b) Comparison of Original Values for Animals

	Japan	Europe & North America
Positional Relation	Exist in the <b>Different</b> World	Exist in the <b>Same</b> World
Classification	<ul style="list-style-type: none"> <li>• Equal</li> <li>• Transmigration of the Soul</li> <li>• Continuity of Life</li> </ul>	<ul style="list-style-type: none"> <li>• Different Existence</li> <li>• Existence Dominated by Humans Responsibly</li> </ul>
Major Animals	Pets	Domestic Animals
Main Culture	<b>Rice Cultivation</b>	<b>Stock Farming</b>
<b>Attitude</b>	<b>Emotional</b>	<b>Scientific &amp; Rational</b>

## c) Ancient Thoughts --- Buddhism & Animism

1. “不殺生戒” → **Guilt for killing Animals**
2. “山川草木悉有仏性”  
→ **Humans and animals are equal spiritually**
3. “輪廻転生” = Transmigration of the soul  
→ **Humans and animals are continuous spiritually**

Humans need to kill animals to survive

**Conflict**

How do Japanese people justify killing animals?

### 1. Sense of Sacrifice

→ Animals are gifts from a god, so we need to sacrifice part of animals in return.

### 2. Purification of Sins

→ Morn for the dead and purify the sins of killing

## 4. Conclusion

What are the reason of delay in legislation about laboratory animals?

**Before** → Life in **animism & naturalism** with rice cultivation and people think animals **emotionally**

**After** → Inflow of modern technology and **thoughts to use laboratory animals** scientifically and rationally (influenced by the policy of GHQ after the WW II)



Ans.

**“Cultural antipathy for killing in experiments with laboratory animals”**  
which is based on Japanese ancient thoughts and traditional lifestyle