

Apr. 16, Publicity committee

**JSAAE** Japanese Society for *Alternatives to Animal Experiments*

HOME CONTACT US

# Introduction of JSAAE

*Japanese Society for  
Alternatives to Animal Experimentation*

[http://www.asas.or.jp/jsaae/e\\_index.html](http://www.asas.or.jp/jsaae/e_index.html)

# The term Three Rs

1. **Replacement**, which refers to the use of non-animal methods whenever possible,
2. **Reduction**, which refers to obtaining comparable levels of information from fewer animals, and
3. **Refinement**, which refers to methods for alleviating potential pain, suffering, or distress of animals used in experiments.

The Three Rs were first described by Russell and Burch in 1959 and were officially endorsed by the 3rd World Congress on Alternatives and Animal Use in the Life Sciences as part of the Declaration of Bologna in 1999. More recently, they have been incorporated in laws and official policies in countries all over the world as well as into international standards on the welfare of animals used in experiments.

# Mission of JSAAE

## Our Activities and Objectives

- The Japanese Society for Alternatives to Animal Experiments is a scientific organization that undertakes research, development, education, and surveillance activities for promoting international acceptance of the **Three Rs** as guiding principles for the proper use of animals in scientific testing.

# Purpose and history

**“Promote and propagate of 3Rs in Japan in research, development, and education”**

- **1982** : Established as a research group  
(Representatives: Prof. Tsutomu Sugawara)
- **1986** : Alternative animal test investigation task force at JCIA
- **1990** : Reformed to become **Scientific Association**
- **2002** : Accepted as a member society by Science Council of Japan.  
(▪ 2005: 3Rs were officially included in the animal protection law)  
(▪ 2006: JaCVAM at NIHS)
- **2007** : Organized **WC6** in Tokyo
- Have been trying to set collaboration with Asian countries in addition to EU and USA etc.

**\*25 times of annual meeting (26th will be in Kyoto this year)**

# What we should do next...

---

- Promote world-wide proposal of Japan-originated new alternative tests. This is one of the most important role of JSSAE to motivate Japanese researchers.
- Integration of various scientific disciplines for development of new tests.
- Promote the use of alternative methods in domestic regulations based on cooperation with JaCVAM.
- Getting stronger governmental supports for alternative research.
  
- Promote good international cooperation benefiting both and helping 3Rs broadening.
  - ▶ with North America and Europe
  - ▶ with Asian countries

# General services

---

- 1) Annual meeting of the society
- 2) Extraordinary symposium and workshops
- 3) Publication
  - ▶ J. Alternatives to Animal Experiments (AATEX)
  - ▶ News letters (in Japanese)
  - ▶ Home page
- 4) Financial support to related research
- 5) Validation and evaluation of new alternatives
- 6) Collect relevant information
- 7) Communication with other countries
- 8) Others
  - ▶ Support of International meeting
  - ▶ Collaboration with the other scientific associations  
Tissue culture Assoc, Mutagenicity assoc., etc
  - ▶ Communication with animal protection group

# Grant, trip supports to the members

---

## ● JSAAE research grant

- 1,000,000 yen/one proposal per year

## ● Mandom International Research Grants on Alternative to Animal Experiments

- Based on the donation of Mandom Coop.
- 500,000-2,000,000 yen per year, 5,000,000 yen per year
- Focused on proposals from Asian countries
- No animal uses in the research

## ● Refinement award

- One award per year. 100,000 yen.

## ● Support to foreign trips of younger researchers

- 1,000,000 yen in total per year for the trips to Important meetings held in European, North America and Asian countries.

# Publication

## ● AATEX

### (Alternatives for Animal Testing and Experimentation)

- 1990, Vol.1~2012, Vol. 17
- Transmission of info about Japanese 3R research to the world, including that related to validation studies in Japan.
- PDF can be downloaded (except latest one year for non-members)  
<http://wwwsoc.nii.ac.jp/jsaae/aatex.html>

## ● Publication awards

- 100,000 yen, one article per year

## ● Web-based news letter (in Japanese)

- Two or three times per year <http://www.asas.or.jp/jsaae/news.html>

## ● E-mail news (in Japanese)

- 30 times per year



# Members

- Full member 419 (2013/12/17)
- Horary members

Name	Affiliation/Position	Date
Hiroshi ONO	Hadano Research Institute, Food and Drug safety Center/Ordinary Board Member	Nov. 12, 2011
Atsushige SATO	Tokyo Medical and Dental University/ Emeritus Professor	Dec. 5, 2010
H. Spielmann	Centre for Documentation and Evaluation of Alternatives to Animal Experiments (ZEBET)/Former Director	Aug. 23, 2007
(Now-dead) Yukiaki KURODA	National Institute of Genetics/ Emeritus Professor	Dec.2, 2005
(Now-dead) Tsutomu SUGAWARA	Kyoto University/ Emeritus Professor	Nov. 8, 2003

# Supporters

## Platinum

Japan Cosmetic Industry Association  
Mandom Corporation

## Gold

Kao Corporation  
Health Research Foundation  
Nihon L'Oréal  
Nippon Menard Cosmetic Company Limited

## Silver

ALBION Co., Ltd., Asahi Kasei Pharma Corp.  
Chugai Pharmaceutical Co., Ltd., Club Cosmetics Co., Ltd., Daicel  
Corporation, DRC Co.,Ltd.  
Japan Anti-Vivisection Association (JAVA),  
Japan Tissue Engineering Co., Ltd.  
Japan Tobacco Inc., KAC Co., Ltd, Kagome Co. Ltd.,  
KOSÉ Corporation, Kyorin Pharmaceutical Co., Ltd.,  
Media Services, Ltd. Mitsubishi Tanabe Pharma Corporation,  
Nagase & Co., Ltd., Nikoderm Research Inc., Noevir Co., Ltd.,  
Pola Chemical Industries, Inc. Shionogi & Co., Ltd.,  
Sumitomo Bakelite Co., Ltd., Sumitomo Chemical Co., Ltd.,  
Teikoku Seiyaku co.,ltd.

# Board members, 2013-2014

<b>President:</b>	<b>Dr. Hajime KOJIMA (NIHS)</b>
<b>Vice president:</b>	<b>Dr. Masaharu AKITA (Kamakura Women's Univ)</b>
<b>General manager:</b>	<b>Dr. Hiroaki TODO (Josai Univ)</b>
<b>Accounting manager:</b>	<b>Dr. Shigenobu HAGINO (Shiseido)</b>
<b>Auditors:</b>	<b>Dr. Takashi SOZU (Kyoto Univ)</b> <b>Dr. Noriho TANAKA (FDSC)</b>

**General affairs committee**  
**International committee**  
**Publication committee**  
**Awards committee**

**Financial committee**  
**Planning committee**  
**Publicity committee**

**+ About other 50 board members**

# President' opinion

The JSAAE is an association of scientific professionals who are dedicated to **promoting research, development, training, and public awareness of alternatives to animal testing and the principle of the Three R's**. For more than a quarter of a century, JSAAE has built a reputation both in Japan and around the world for sponsoring significant professional activities, including our annual meetings and an international conference in Tokyo in 2007. We are particularly proud of the fact that our annual meetings, where presentations of the latest findings from state-of-the-art research are on a world-class level, draw **as many as 500 professionals each year**. Japanese researchers are highly regarded for their diligence and teamwork, yet a general lack of awareness in Japan about the benefits provided by alternatives to animal testing means that, in contradistinction to Europe, **the rest of the world does not often learn of new developments from Japan**. JSAAE is now working to form ties with **like-minded organizations**, to increase opportunities for Japanese researchers to promote their findings, and to gain greater worldwide recognition of Japan's efforts in this field.

# President' opinion

A **great many JSAAE activities** focus on scientific research into means for **replacement** of animal testing with alternative methods, so naturally cooperating with other organizations that promote research and development in this area, particularly with regard to advancing the use of in silico techniques, will always be an important part of our activities. And while **reduction** and **refinement** have not always received the emphasis that they deserve, now is the time to renew our efforts to advance understanding and awareness of our achievements in these areas, as well. Thus, promoting the Three R's necessitates collaboration with **others performing research into or providing support for the welfare of laboratory animals.**

# Validation studies and JSAAE

# History of validation committee in JSAAE

- 1992 Start of validation studies on five cytotoxicity test methods for eye irritation testing
- 1995 Validation committee was put into place in JSAAE
- 2008 Adjournment

## List of Test methods validated by JSAAE

No.	Test method	Validation	papers	TG	JaCVAM Regulatory acceptance
1	Five cytotoxicity tests for eye irritation testing	○	○		
2	<i>In vitro</i> vascular endothelial toxicity testing for injection product				
3	Vitrolife-Skin™ and TESTSKIN™, 3-dimensional cultured skin models for skin irritation testing	○	○		
4	Vitrolife-Skin™, a 3-dimensional cultured skin model for skin corrosivity testing	○	○		Approved
5	Yeast growth inhibition phototoxicity assay and the red blood cell photohemolysis assay	○			Pending
6	Skin sensitization test LLNA:DA	○	○	TG 442B	Approved
7	Skin sensitization test LLNA:BrdU-ELISA	○	○	TG 442A	Approved
8	Cytotoxicity test: short time exposure (STE) test for eye irritation testing	○	○	On-Going	
9	Human epidermal model <b>LabCyte EPI-MODEL</b> for skin irritation testing	○	○	TG 439	Approved



# JaCVAM: Japanese Center for the Validation of Alternative Methods

This center created at National Institute of Health Sciences (NIHS) in Japan, 2005. by the Ministry of Health, Labour and Welfare (MHLW).

## JaCVAM's Goals

- To promote the 3Rs in animal experiments for the evaluation of chemical substance safety in Japan
- To establish guidelines for new alternative experimental methods through international collaboration.

# OECD Test Guidelines developed by Japanese

- ◆ Skin sensitization assay, LLNA : DA No.442A (2010)
- ◆ Skin sensitization assay, LLNA : BrdU-ELISA No.442B (2010)
- ◆ Performance-Based Test Guideline for Stably Transfected Transactivation *In Vitro* Assays to Detect Estrogen Receptor Agonists, No.455 (2012)
- ◆ Skin irritation assay with LabCyte EPI-MODEL 24, No. 439 (2013)

Update on JaCVAM (15.June / 2009 updated)

Classification	Test name	Validation study	Peer review	Regulatory acceptance	Recommendation to government	OECD	Collaboration
01	Corrosivity test (1)Reconstructed human tissue test made in Japan: Vitrolife-Skin	Feb-09 	Jun-08 	Jun-08 	Aug-08 	Guideline No.431 	JSAAE
02	Phototoxicity test (1)3T3-NRU	BfR 	Nov-04 			Guideline No.432 	JSAAE
	(2)Yeast growth inhibition phototoxicity assay and the red blood cell photohemolysis assay	Jan-09 	May-09 	on going 			
03	Skin sensitization test (1)LLNA-DA	Jun-07 	Feb-08 	Oct-08 	Nov-08 		JSAAE
	(2)LLNA-BrdU	Aug-08 	Feb-09 	on going 			JSAAE
	(3)h-CLAT	start in 2009 					
	(4)LLNA						
	(5)rLLNA	ECVAM, ICCVAM 	start in 2009 				ICCVAM
04	Skin irritation test (1)Reconstructed human tissue test	ECVAM 	Nov-08 	on going 		Draft test guideline 	ECVAM
	(2)Reconstructed human tissue test made in Japan	May-09 					JSAAE
05	(1)3T3-ICE	ECVAM 					

*Thank you for your attention*