JaCVAM's role on new alternatives to animal testing and International harmonization



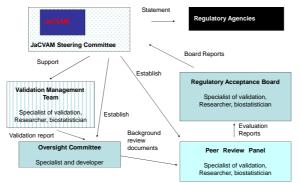
Kojima, H., Inoue, T. and Ohno, Y.; National Institute of Health Sciences (NIHS)

Introduction

In November 2005, the Japanese Center for the Validation of Alternative Methods (JaCVAM) was established as part of the Division of Pharmacology, National Center for Biological Safety and Research, National Institute of Health Sciences (NIHS) in Japan. JaCVAM's roles are to facilitate the validation of alternative methods developed in Japan for safety evaluation, to conduct peer review of alternative methods, and to promote practice of the 3Rs in the area of animal testing in Japan.

It is important for JaCVAM to cooperate with other VAMs in the framework of the International Cooperation on Alternative Test Methods (ICATM). JaCVAM will contribute ICVAM for enhanced international cooperation collaboration and communication with the European Centre for the Validation of Alternative Methods (ECVAM), the National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM)

/ the Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) and Health Canada. JaCVAM have a regulatory acceptance board to discuss on the validity of new or revised methods for regulatory purpose. This board reviews reports of new or revised ones prepared by peer review panel and make statements on the test methods for regulatory agency.



Framework for Validation. Peer Review and

Regulatory Acceptance of Alternative Methods in Japan

Validation study	On-going study Skin sensitisation: h-CLAT assay (ECVAM/JaCVAM)	Tokyo, Japan Board unanin 1) 1) Vitrolife-	At 2008-2010 at the National Institute of Health Sciences (NIHS), Tokyo, Japan, the members of the JaCVAM Regulatory Acceptance Board unanimously endorsed the following statement: 1) 1) Vitrolife-Skin™, a 3-dimensional cultured skin model can be used for distinguishing between corrosive and non-corrosive chemicals 2) LLNA (Local Lymph Node Assay) :DA can be used for distinguishing between sensitizer and non-sensitizer chemicals 3) Bovine Corneal Opacity and Permeability (BCOP) test method for Identifying ocular corrosives and severe Irritants 4) Isolated Chicken Eye (ICE) for identifying ocular corrosives and severe Irritants 5) <i>In vitro</i> skin irritation testing EPISKIN for distinguishing between skin irritation and non-irritant chemicals				
	Genotoxicity: In vivo/in vitro Comet assay (ICCVAM/ECVAM/JaCVAM) chemicals					
	Endocrine disrupter screening: Stably Transfected Transcriptional Activation (STTA) antagonist assay (JaCVAM)	distinguish 3) Bovine Cor for Identify					
	Endocrine disrupter screening: CCi assay (ICCVAM/KoCVAM/JaCVAM	A) and severe 5) <i>In vitro</i> ski					
	Bhras cell transformation assay (ICCVAM/ECVAM/JaCVAM)						continuo for
	Eye irritation: Short Time Exposure (STE) assay (JaCVAM)	many years to	We are preparing a few new statements now. We will continue for many years to publish these statements and work on the regulatory agencies. We are showing these statements to the public on JaCVA web site.				
Ļ	Phototocxicity : Reactive oxygen species (ROS) assay (JaCVAM)						
Peer review	On-going		Слам		Office In	se Center for the Validad ex Testing Listitut Assessment (Valiant Bongraz 1996, feeser Valiant rolluk (Treat Barro	Next of Participage
	Skin irritation LabCyte EPI-MODEL (Japanese)			(ana) (and	Congle	(ie	
	Eye irritation Cytotoxicity assays (SIRC or MATREX: Japanese)		Q Ann actual	Question and the second		Contraction of Advention	
Ļ	Accepted Bovine Corneal Opacity and Permeability (BCOP) test method for Identifying ocular corrosives and severe Irritants (Accepted on		Philip and Marsen. JAC/MAR parties and ensures to a partners the 28 in a series of a separatement for the exclusion of a diverse landscreak series and the same net extention particles for the advancement for the ensurement of the diverse series of the same series and the series of the same series of the for the same experiment. How series of the same series with the same series and wateres the same series of the same series and the same series of the same series and wateres in the same series of t				
ulatory acceptance	December, 2009)	1	News		Contents	2004 I.I.	
	Isolated Chicken Eye (ICE) for identifying ocular corrosives and severe Irritants (Accepted on December, 2009)		BOCKTIVes tasks domy tens ses tasks domy ens tasks ens ens tasks ens tasks ens tasks ens ens ens				
		On-going	Fire	in vitre e			18 ECVA
	In vitro skin irritation testing EPISKIN (Accepted on March, 2010)	Pyrogenecity	FIVE	in vitro a	ssays		
	Skin Sensitization: LLNA: BrdU-ELISA (Accepted on May, 2010)	Acute toxicity t	testing	3T3/NRI) (ICC/	/AM)	

Japanese Correlation with draft OECD test guideline

New accepted TG for a Stably Transfected Transcriptional Activation (STTA) Assay for the detection of estrogenic activity of chemicals (accepted by April, 2009)

TG 429a, b: Skin Sensitisation for a Non-Radioisotope version of the Local Lymph Node Assay (LLNA:DA, LLNA:BrdU-ELISA accepted by March, 2010)

On-going

Project 4.26: Cell Transformation Assay using Balb/c 3T3 cell line Project 4.34: EDTA Activity - New TG for a stably Transfected Transcriptional Activation (STTA) Assay for the detection of

anti-estrogenic activity of chemicals Project 4.35: New TG for an *In Vitro* Skin Irritation Assay

(LabCyte model) Project 4.36: New TG: Comet Assay in Genotoxicity Testing Project 4.??: Bhras cell transformation assay

JaCVAM statements in 2009-2010

JaCVAM statement tro ocular toxicity test methods for identifying ocular corrosive and severe irritants: Bovine Corneal Opacity and Permeability Test Method

At the meeting concerning the above method, held on 19 December 2009 at the National Institute of Health Sciences (NIHS), Tokyo, Japan, the members of the Japanese Center for the Validation of Alternative Methods (JaCVAM) Regulatory Acceptance Board [1] unanimumbe and defeed the fell human actionmest. usly endorsed the following sta

Following the review of the results of the ICCVAM(Interagency Coordinating Committee theValidation of Alternative methods, USA) Background Review Document and Evaluatio Report, it is concluded that the *in vitro* ocular toxicity test methods: Bovine Corneal Opacity and Permeability Test Method can be used for identifying ocular corrosive severe irritants.

The JaCVAM Regulatory Acceptance Board has been regularly kept informed of the processing the sequence of the study prepared for the Jacobian sector regularly kept minimum of the press of the study, and this endorsement is based on an assessment of various document ading, in particular, the report on the results from the study, and also on the evaluation orted by JSAAE of the study prepared for the JaCVAM ad hoc peer review panel.

- Miji

aal Centre for Biological Safety and Research (NCBSR)

19 December, 2009

NIHS.

JaCVAM Regulatory Acceptance Board

No	Name	Affiliation			
1*	Toru Inoue	National Institute of Health Sciences			
2	Yoshiaki Ikarashi	Ikarashi National Institute of Health Sciences			
3	Yuko Okamoto	Japan Cosmetic Industry Accosiation			
4	Hiroshi Onodera	Pharmaceuticals and Medical Devices Agency			
5	Noriho Tanaka	Hatano Research Institute Food and Drug Safety Center			
6	Kazuichi Nakamura Japan Pharmaceutical Manufacturers Associatio				
7	Takeyuki Oshima	Japan Chemical Industry Association			
8	lku Mitta	Pharmaceuticals and Medical Devices Agency			
9	Hiroo Yokozeki	Tokyo Medical and Dental University			
10	Midori Yoshida	National Institute of Health Sciences			
11	Takemi Yoshida	Showa University			
12	Isao Yoshimura	Tokyo University of Science			

Conclusion

MHLW (Ministry of Health,

METI (Ministry of Economy,

Trade and Industry)

MOE (Ministry of

MAFF (Ministry of

Agriculture, Forestry and

Environment)

Fisheries)

生労働

Labour and Welfare)