

# **Annual report on the Japanese Center for the Validation of Alternative Methods (JaCVAM) in 2016**

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## **Abstract**

In 2016, JaCVAM (Japanese Center for the Validation of Alternative Methods) proposed three test methods accepted by the JaCVAM Regulatory Acceptance Board to the regulatory agency, including: 1) the Stably transfected Transcriptional Activation Assay to Detect ER mediated activity, 2) the re-constructed human Cornea-like Epithelium Test Method for eye irritation testing and 3) h-CLAT assay for skin sensitization testing.

Furthermore, JaCVAM contributed to approve two OECD (Organisation for Economic Co-operation and Development) two Test Guidelines (TGs). They are 1) OECD Test No. 442E: h-CLAT assay for skin sensitization testing, 2) OECD Test No. 458: Stably Transfected Human Androgen Receptor Transcriptional Activation Assay for Detection of Androgenic Agonist and Antagonist Activity of Chemicals. In the OECD Work plan, Japan has proposed two test methods: 1) the IL-8 Luc assay for skin sensitization testing, and 2) the Reactive Oxygen Species (ROS) assay for photo-safety assessment. Additionally, JaCVAM is coordinating, along with several other international collaborators, in ongoing validation studies and peer reviews, which include MITA (Multi-ImmunoTox assay) for immunotoxicity, ADRA (Amino acid Derivative Reactivity Assay) for skin sensitization testing, Hand1-Luc EST (Embryo Stem cell Test) for the developmental screening, and SIRC-CVS (Crystal Violet Staining), Vitrigel-EIT (Eye Irritation Test) and LabCyte Cornea-model-EIT for the eye irritation testing.