Moving forward in regulatory toxicology
The contribution of EURL ECVAM

RESPONSIBILITIES

• Guide research on development and use of alternative methods
• Coordinate validation within the EU
• Disseminate information on the 3Rs
• Facilitate stakeholder dialogue
• Promote international acceptance

PREDICT

Predict adverse outcome or disease in humans caused by a chemical disturbing the biological system based on systems knowledge and integrated assessment and testing methods

Non-animal skin sensitisation testing – a success story

The biggest 3 R project ever

The biggest 3 R project ever

VALIDATE

Validate new in vitro methods to be applied in integrated safety assessment and identify the methods that will best contribute to testing strategies leading to full replacement

Scientific opinion

Advice from regulators

Stakeholder dialogue

Global partnership

Validation support

Scientific opinion

Advice from regulators

Stakeholder dialogue

Global partnership

Validation support

Completed ESAC Peer Reviews (2016)

Eye Damage/Irritation

• SkinEthic®HCE EIT (reconstructed Human Corneal Epithelium)

• Ocular Irritaction® (macromolecular matrix mimicking cornea)

Skin irritation

• Epics® SIT (reconstructed human epidermis)*

• LuSens (protein reactivity testing)*

Skin sensitisation

• U-SENS™ (dendritic cell migration/maturation)

Use of Performance Standards

* Performance Standard based validation

DISSEMINATE

Databases and Information Systems

• DB-ALM-EURL ECVAM DataBase service on Alternative Methods

• QSAR Model Database

• ChemAgora: a portal to public information on chemicals

• CheLIST: chemical lists information

• Genotoxicity & carcinogenicity consolidated DB of positive Ames chemicals

• Tracking System on Alternative Methods (TSAR)

• Endocrine Active Substances Information System (EASIS)

• Adverse Outcome Pathways Knowledge Base (AOP-KB)

• EURL ECVAM Search Guide – a handbook

Activities to support policies

• New TSAR (Dec 2016)

• EURL ECVAM Status Report (Oct 2016)

• Report on 3Rs Knowledge Sources (Dec 2016)

• Acute Toxicity and Skin Sensitisation DBs (2017)

• GIVIMP (Good In Vitro Method Practice; Beginning of 2017)

• Validation Guidance (2017)

Contact

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