Workshop on acceleration of the validation and regulatory acceptance of alternative methods and implementation of testing strategies - DTU Orbit (19/11/2018)

Workshop on acceleration of the validation and regulatory acceptance of alternative methods and implementation of testing strategies

This report describes the proceedings of the BfR-RIVM workshop on validation of alternative methods which was held 23 and 24 March 2017 in Berlin, Germany. Stakeholders from governmental agencies, regulatory authorities, universities, industry and the OECD were invited to discuss current problems concerning the regulatory acceptance and implementation of alternative test methods and testing strategies, with the aim to develop feasible solutions. Classical validation of alternative methods usually involves one to one comparison with the gold standard animal study. This approach suffers from the reductionist nature of an alternative test as compared to the animal study as well as from the animal study being considered as the gold standard. Modern approaches combine individual alternatives into testing strategies, for which integrated and defined approaches are emerging at OECD. Furthermore, progress in mechanistic toxicology, e.g. through the adverse outcome pathway approach, and in computational systems toxicology allows integration of alternative test battery results into toxicity predictions that are more fine-tuned to the human situation. The road towards transition to a mechanistically-based human-focused hazard and risk assessment of chemicals requires an open mind towards stepping away from the animal study as the gold standard and defining human biologically based regulatory requirements for human hazard and risk assessment.

General information

State: Published
Organisations: Copenhagen Center for Health Technology, National Food Institute, Research Group for Molecular and Reproductive Toxicology, National Institute of Public Health and the Environment, Utrecht University, Federal Institute for Risk Assessment, European Chemicals Agency, Cosmetics Europe, BASF, European Commision Joint Research Centre Institute, Vrije Universiteit Brussel, SeCAM
Pages: 62-74
Publication date: 1 Aug 2018
Peer-reviewed: Yes

Publication information

Journal: Toxicology in Vitro
Volume: 50
ISSN (Print): 0887-2333
Ratings:
BFI (2018): BFI-level 1
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Scopus rating (2017): CiteScore 3.37 SJR 0.931 SNIP 0.981
Web of Science (2017): Impact factor 3.105
Web of Science (2017): Indexed yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 3.15 SJR 1.025 SNIP 0.941
Web of Science (2016): Impact factor 2.866
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 3.38 SJR 1.096 SNIP 1.132
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 1
Scopus rating (2014): CiteScore 3.03 SJR 0.949 SNIP 1.133
Web of Science (2014): Impact factor 2.903
BFI (2013): BFI-level 1
Scopus rating (2013): CiteScore 3.32 SJR 0.933 SNIP 1.245
Web of Science (2013): Impact factor 3.207
ISI indexed (2013): ISI indexed yes
Web of Science (2013): Indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): CiteScore 3.05 SJR 0.924 SNIP 1.15