New Approach Methodologies (NAMs) In Regulatory Risk Assessment Workshop Report 2020- Exploring Dose Response

References - 2020 Workshop Report

In this guide

Allen, T.E., Goodman, J.M., Gutsell, S. and Russell, P.J., 2018. Using 2D structural alerts to define chemical categories for molecular initiating events. **Toxicological Sciences**, 165(1), pp.213-223.

Bernauer, U., Bodin, L., Celleno, L., Chaudhry, Q., Coenraads, P.J., Dusinska, M., Duus-Johansen, J., Ezendam, J., Gaffet, E., Galli, C.L. and Granum, B., 2016. SCCS OPINION ON decamethylcyclopentasiloxane (cyclopentasiloxane, D5) in cosmetic products. Available at: [Opinion of the Scientific Committee on Consumer Safety on o-aminophenol (A14) (europa.eu)](#)

Campbell, J.L., Yoon, M. and Clewell, H.J., 2015. A case study on quantitative in vitro to in vivo extrapolation for environmental esters: Methyl-, propyl-and butylparaben. **Toxicology**, 332, pp.67-76.

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment. Environmental, health and safety alternative testing strategies: Development of methods for potency estimation (TOX/2019/70)
Available at: Developing methods for potency estimation (food.gov.uk)

Cronin, M.T., Madden, J.C., Yang, C. and Worth, A.P., 2019. Unlocking the potential of in silico chemical safety assessment–A report on a cross-sector symposium on current opportunities and future challenges. **Computational Toxicology,** 10, pp.38-43.

Department for Business, Energy and Industrial Strategy (BEIS) white paper on 'Regulation for the Fourth Industrial Revolution' Available at: The Use of Emerging Technologies for Regulation (publishing.service.gov.uk)

EFSA Panel on Contaminants in the Food Chain (CONTAM)
Scientific Opinion on Tropane alkaloids in food and feed. Available at: Scientific Opinion on Tropane alkaloids in food and feed - - 2013 - EFSA Journal - Wiley Online Library

EFSA Panel on Contaminants in the Food Chain (CONTAM)
Presence of microplastics and nanoplastics in food, with particular focus on seafood
Available at: Presence of microplastics and nanoplastics in food, with particular focus on seafood - - 2016 - EFSA Journal - Wiley Online Library

European Commission - European Strategy for Data. Available at: IMMC.COM%282020%2966%20final.ENG.xhtml.2_EN_ACT_part1_v11.docx (europa.eu)

EURL ECVAM Status Report 2017 on alternative methods. Available at: EURL ECVAM Status Report 2017 - European Commission (europa.eu)

EURL ECVAM Status Report 2019 on alternative methods. Available at: EURL ECVAM status report on the development, validation and regulatory acceptance of alternative methods and approaches (2019) - Publications Office of the EU (europa.eu)

HM Government Regulation for the Fourth Industrial Revolution: White Paper (2019)
Available at: [Regulation for the Fourth Industrial Revolution: White Paper (publishing.service.gov.uk)](publishing.service.gov.uk)

Horizon 2020. Available at: [Horizon 2020 - European Commission (europa.eu)](europa.eu)

Human biomonitoring 4 EU programme. Available at: [HBM4EU – science and policy for a healthy future](#)

Judson, R., Richard, A., Dix, D.J., Houck, K., Martin, M., Kavlock, R., Dellarco, V., Henry, T., Holderman, T., Sayre, P. and Tan, S., 2008. The toxicity data landscape for environmental chemicals. **Environmental health perspectives**, 117(5), pp.685-695.

Kavlock, R.J., Bahadori, T., Barton-Maclaren, T.S., Gwinn, M.R., Rasenberg, M. and Thomas, R.S., 2018. Accelerating the pace of chemical risk assessment. **Chemical research in toxicology, 31**(5), pp.287-290.

National Toxicology Program- Integrated Approaches to Testing and Assessment
Available at: [Integrated Approaches to Testing and Assessment (nih.gov)](nih.gov)

National Academies Toxicity Testing in the 21st Century, A Vision and a Strategy (2007). Available at: [Toxicity Testing in the 21st Century: A Vision and a Strategy | The National Academies Press](#)

OECD Guidance Document on Good In Vitro Method Practices (GIVIMP, 2018)
Available at: [Guidance Document on Good In Vitro Method Practices (GIVIMP) | en | OECD](#)

Parish, S.T., Aschner, M., Casey, W., Corvaro, M., Embry, M.R., Fitzpatrick, S., Kidd, D., Kleinstreuer, N.C., Lima, B.S., Settivari, R.S. and Wolf, D.C., 2020. An evaluation framework for new approach methodologies (NAMs) for human health safety assessment. **Regulatory Toxicology and Pharmacology, 112**, p.104592.

Patterson, E.A., Whelan, M.P. and Worth, A.P., 2020. The role of validation in establishing the scientific credibility of predictive toxicology approaches intended for regulatory application. **Computational Toxicology,** p.100144.

Raies, A.B. and Bajic, V.B., 2016. In silico toxicology: computational methods for the prediction of chemical toxicity. **Wiley Interdisciplinary Reviews: Computational Molecular Science,** 6(2), pp.147-172.

Safety & Environmental Assurance Centre: A Next Generation Risk Assessment Case Study for Coumarin in Hypothetical Cosmetic Products. Available at: [A Next Generation Risk Assessment Case Study for Coumarin in Hypothetical Cosmetic Products (unilever.com)](https://unilever.com)

Slikker Jr, W., de Souza Lima, T.A., Archella, D., de Silva Junior, J.B., Barton-Maclaren, T., Bo, L., Buvinich, D., Chaudhry, Q., Chuan, P., Deluyker, H. and Domselaar, G., 2018. Emerging technologies for food and drug safety. **Regulatory Toxicology and Pharmacology**, 98, pp.115-128.

Tan, Y.M., Chan, M., Chukwudebe, A., Domoradzki, J., Fisher, J., Hack, C.E., Hinderliter, P., Hirasawa, K., Leonard, J., Lumen, A. and Paini, A., 2020. PBPK model reporting template for chemical risk assessment applications. **Regulatory Toxicology and Pharmacology**, p.104691.

Wang, Z., Walker, G.W., Muir, D.C. and Nagatani-Yoshida, K., 2020. Toward a global understanding of chemical pollution: a first comprehensive analysis of national and regional chemical inventories. **Environmental Science & Technology, 54**(5), pp.2575-2584.

Wedlake, A.J., Folia, M., Piechota, S., Allen, T.E.H., Goodman, J.M., Gutsell, S. and Russell, P.J., 2019. Structural Alerts and Random Forest Models in a Consensus Approach for Receptor Binding Molecular Initiating Events. **Chemical Research in Toxicology**.

Worth, A.P., 2019. The future of in silico chemical safety… and beyond. **Computational Toxicology**, (10) pp 60-62.