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Collaboration for Non-Animal Cosmetic Safety Assessment Globally by 2023

Training and Education – Decision making approaches

To support the implementation of a global ban on animal testing of cosmetics and cosmetic ingredients by 2023, training and education packages will be developed to build capacity in the application of non-animal methods in safety risk assessment. The focus will be on how to make robust consumer safety decisions with target audiences anticipated to be regulators, industry safety assessors (including SMEs), safety and regulatory compliance consultants, academic researchers and students, informed consumers.

Training topics will be tiered with respect to audience, from general, high-level for broader audiences to more specific and detailed insights for targeted audiences. Links to material which is already publicly available will be made as appropriate. We are seeking input into scoping the breadth of topics covered and developing/delivering the material contained within them. The current training program proposal and examples are based on the framework described in the 2018 ICCR publication 'Principles underpinning the use of new methodologies in the risk assessment of cosmetic ingredients'.¹



Decision making elements:

- Overview of exposure led, non-animal risk assessment approaches
- Problem formulation
- Decision making
 - Point of Departure determination
 - Uncertainty characterization
 - Governance for traceability/transparency
- Sharing risk assessment case studies

Tools and approaches:

- Exposure led risk assessment
 - Determination of acceptable exposure limits
 - Scenario based exposure calculations
- Predictive Chemistry (e.g. (Q)SAR, Read-across)
- History of Safe Use
- Data Generation (e.g. genetic toxicology, skin sensitization, inhaled exposure, skin/eye irritation, phototoxicity)
- Next Generation Risk Assessment approaches
 - Exposure (e.g. PBPK, free concentration, metabolism)
 - Tiered approach: in silico methods, in vitro methods
 - Computational modelling

The delivery of education and training materials is anticipated to be via webinars, videos, 1-pagers (e.g. online/printable workflow explanations), website, continuing education sessions, symposia, academic lectures and collaborations.

HSI is now seeking interested parties to join the collaboration in developing detailed plans for capacity building and education, and for ensuring globally harmonized non-animal legislation.

Additional details will be shared at the following upcoming events:

- Society of Toxicology Annual Meeting: Breakfast session: Global collaboration for non-animal safety assessment, Tuesday, March 12, 6:30 AM–8:00 AM, Hilton Baltimore
- Partners Workshop: 22nd-23rd May 2019, HSI Headquarters, Washington DC (invitation-only; contact Kate Willett)

For further information please contact: Kate Willett, HSI Senior Director for Science & Regulatory Affairs, kwillett@hsi.org

¹ Reference: Dent, M. et al; Computational Toxicology; 7 (2018), Pages 20-26.