

IDEA Annual Review



Key conclusions for the IDEA Annual Review

December 17th, 2014

Prof. Jim Bridges

Emeritus Professor of Toxicology and
Environmental Health and Chair of the
IDEA Supervisory Group

Aim for July 2014: QRA 2 as applied to fragrance ingredients



External exposure
(aggregate for an
ingredient)



Revised **CEL**



← **AEL** ←



Revised SAFs

Risk assessment

Hazard assessment
(LLNA)
(checked using HRIPT)



NESIL

IDEA-Next steps



- Improved collaboration with the clinics eg to address the effectiveness of the QRA.
- Assessment of the importance of other sources of exposure to fragrance materials.
- A fundamental review of the methodology for hazard identification and characterisation.

Feedback from the clinics on the effectiveness of QRA 2



A high quality, coordinated prospective study involving leading clinics which requires:

- harmonisation of both patch testing technique and test materials,
- collection of relevant exposure information eg occupation, consumer habits, past and present topical drugs used, product type, body site of initial and present dermatitis, etc.

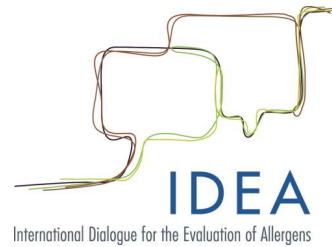
- **Predictions using structural considerations**

Identification and characterisation of haptens and pre- and pro-haptens. Identification of a TTC like system to identify priorities for in depth consideration.

- **Replacement of the LLNA test by non-animal alternatives**

Utilising understanding of toxicokinetics, modes of action and causes of human variability.

QRA development: Exposure assessment



- **Other sources of exposure to a specific fragrance ingredient.**
 - Professional use
 - Household and aromatherapy products
- **Exposure to combinations of fragrance ingredients (Cumulative exposure).**
 - Requires MoA /SAR data.
- **Estimate of internal dose**
- Hapten formation (pre-and pro-haptens).

QRA 3 (201?)

Internal exposure
(total aggregate and
cumulative plus
toxicokinetics)



New SAFs



Risk assessment

Hazard assessment
Non animal evaluation
(SAR/ MoA based)



NESIL

New SAFs



Thank you very much
for your attention

