



19° Congresso
Nazionale
Società Italiana di Tossicologia

BOLOGNA
11-12 Febbraio 2020
Savoia Regency Hotel

Paracelso nel XXI secolo:
«Dosis sola facit, ut venenum non fit»

INTRODUZIONE AL SIMPOSIO

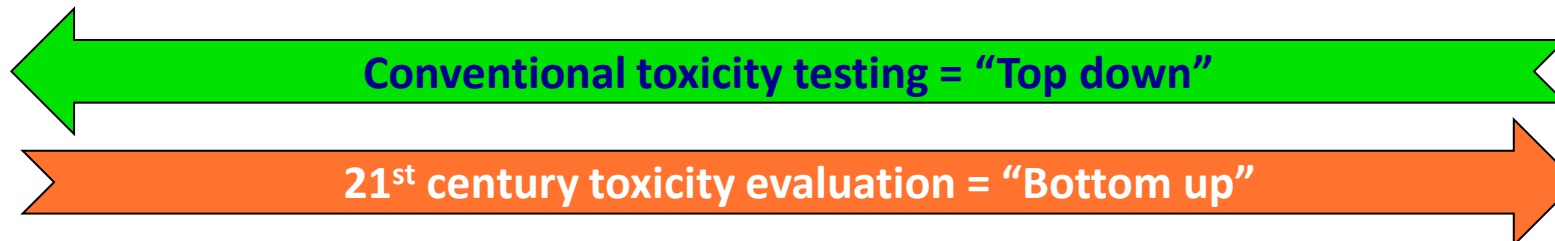
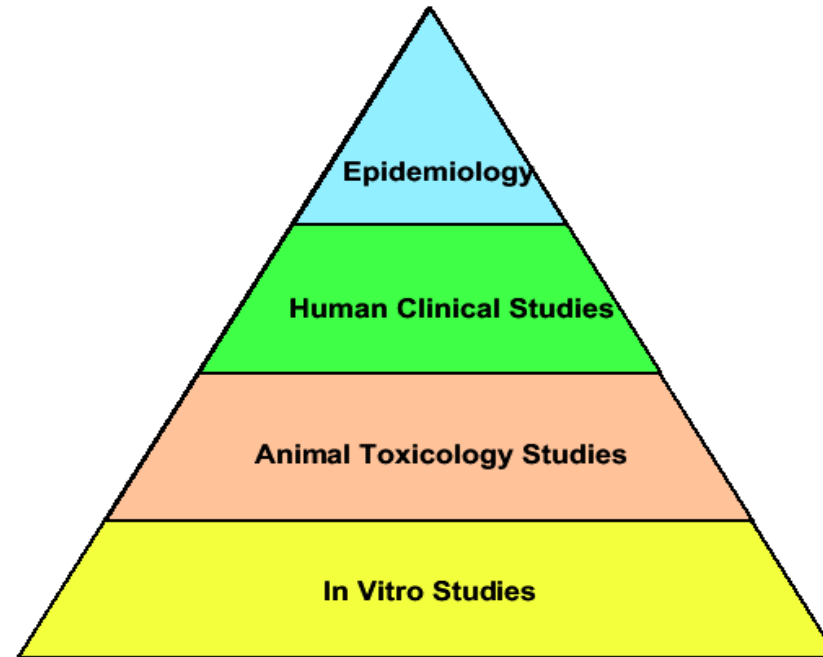
Metodi alternativi in campo biologico

Emanuela Corsini

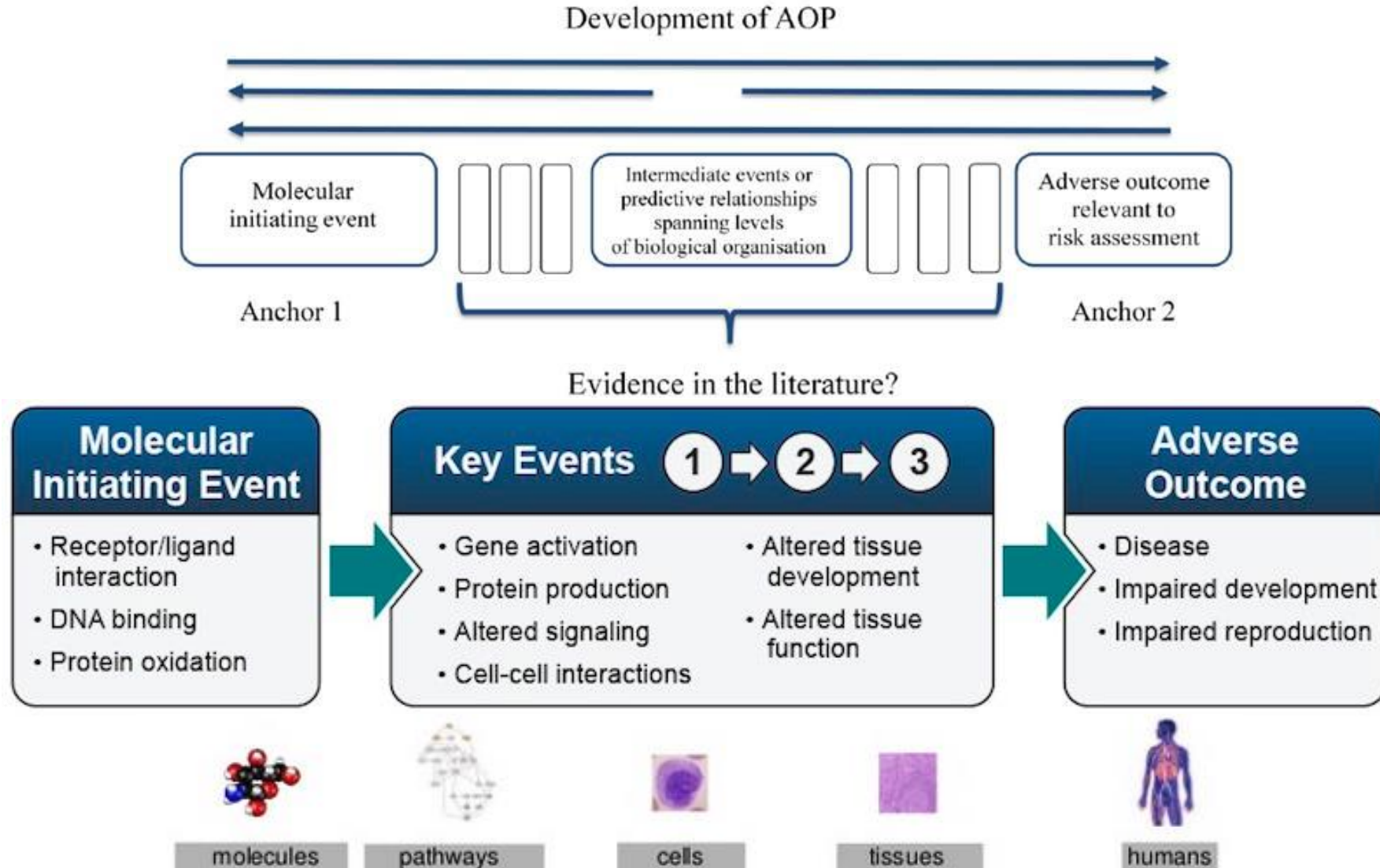
Università degli studi di Milano, Milan, Italy

emanuela.corsini@unimi.it

LA TOSSICOLOGIA NEL XXI SECOLO



ADVERSE OUTCOME PATHWAY



VALIDATED IN VITRO METHODS THAT CAN BE USED FOR SAFETY ASSESSMENT

Corrosion:

- 1) TER, transcutaneous electrical resistance in rat skin explants;
- 2) reconstituted human epidermis and evaluation of cell viability (viability at 1h <15% the substance is classified as corrosive);
- 3) CORROSITEX™ (ICCVAM), which assesses changes in color and / or physical in a collagen matrix.

Phototoxicity: (photoirritation)

- 1) neutral red uptake in 3T3;
- 2) reconstituted epidermis and cell viability (if there is a reduction of 30% after exposure to UVA, then the substance is potentially phototoxic).

Skin irritation: reconstituted human epidermis

Ocular irritation: isolated chicken eye, BCOP, Fluorescein leakage in MDCK cells, EpiOcular™ EIT

Skin sensitization: DPRA, Keratinosens, LuSens, hCLAT, MUSST or U-SENS, IL-8 Luc assay...

HAZARD vs RISK?

11.00-13.00 METODI ALTERNATIVI IN CAMPO BIOLOGICO

11.00-11.10 Introduzione

Emanuela Corsini (Milano)

11.10-11.40 Il tassello mancante nella sensibilizzazione: la comprensione della potenza degli allergeni

Valentina Galbiati (Milano)

11.40-12.10 Biocinetica ed estrapolazione in vitro-in vivo della dose"

Emanuela Testai (Roma)

12.10-12.40 Numeri e uso dei metodi non animali in ambito europeo: lo stato dell'arte

Laura Gribaldo (Ispra)

12.40-13.00 Comunicazioni orali