

# Technical Terms - 2021 Workshop Report

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**Forward dosimetry** Forward dosimetry is an estimation of internal exposures from measurements of external exposure in studies characterising chemical toxicity.

**Integrated External and Internal Exposure (INTEGRA)** Integrated External and Internal Exposure (INTEGRA) is a unified computational platform that integrates environmental fate, exposure and internal dose dynamically in time.

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| Magnolia  | Magnolia is an environment for modelling systems whose behaviour can be described by systems of differential equations. Magnolia provides the tools for developing models using an equation-based modelling language, scripting the execution of simulations using either the Python programming language or a simple command-based language, and for interactively exploring model behaviour using an intuitive user interface. |
| Mixed-model approach  | The mixed-model approach allows for modelling of both population level and individual differences in effects that have a non-linear effect on the observed outcome.  |
| Monte Carlo Simulation (MCSim)                                    | Monte Carlo Simulation (MCSim) is a general-purpose modelling programme which performs Monte Carlo simulations to generate a distribution of estimates.  |
| Ontogeny  | Ontogeny is the development or course of development, especially of an individual organism.  |
| Population Life-course Exposure to Health Effects Model (PLETHEM) | Population Life-course Exposure to Health Effects Model (PLETHEM) suite, is a modular open-source modelling platform that provides users the ability to create, run, share, and audit PBPK models.   |
| Point of departure  | The point of departure (POD) is defined as the point on a toxicological dose-response curve established from experimental data or observational data; generally responding to an estimated low effect level or no effect level used as the starting point to establish a safe level or level of low concern.   |
| Read across   | Read-across is a technique for predicting endpoint information for one substance (target substance), by using data from the same endpoint from (an)other substance(s); the source substance(s).  |

Reverse  
dosimetry

Reverse dosimetry is an estimation of environmental exposures consistent with measured biological data.

Tox21

Toxicology in the 21st Century (Tox21) is a United States federal research collaboration, testing thousands of environmental chemicals using non-animal methods for potential health effects. Further information is available on the [Tox21 website](#). See also the [US Environmental Protection Agency's website](#) for adopting new approach methodologies.