Welcome Message by Chair Person, Professor Aristidis M. Tsatsakis

The 2nd World Summit on Toxicology & applied Pharmacology” to be held at Berlin, Germany, will show us the most important toxicological and pharmacological ideas of today providing a great opportunity for toxicologists and scientists around the world to present their experiences and propose projects and gain new ideas for further scientific studies.

What is one of the most recent discoveries, is the relation of the current toxicological approaches used, aiming on human and environmental protection with real-life exposure scenarios and the actual hazard under such scenarios.

Let us all keep in mind the known quote, “All substances are poisons, it is the dose that makes the poison”. Here we see that small doses of a chemical might be harmless whereas larger doses could be toxic and monotonicity has been established as a principal.

Today, with experts in the fields of toxicology and pharmacology, and many years of research, we have captured the “essence” of this concept where the vast majority of human real-life exposure scenarios have two main key components, low doses and many contributing chemicals that create a final effect.

With the level that the scientific community has reached today, it should not be considered suffice for classical steps to be taken when classifying the potential danger of a specific chemical.

Studies of single chemicals, the no-observed-adverse-effect-level (NOAEL), assuming by default monotonicity and high adversity, and using arbitrate uncertainty factors should be addressed with other aspects introducing determination of real-life exposure scenarios, hazard after real-life exposure scenarios, safety limits after real-life exposure scenarios, the use of new tools such as MoA/AOP, in silico, in vitro, and -omics for the hazard assessment and for the refinement of final in vivo studies.

One crucial element in risk assessment is exposure assessment and there is a thin line between human toxicology and exposure assessment that has to be clarified.
Throughout this conference attendees will have the opportunity to discover “fit for purpose” new methodologies and experimental studies and protocols.

I invite you all to the outstanding Berlin to share and to discuss current opinions and achievement in this very interesting field of toxicology and pharmacology.

Regards,

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