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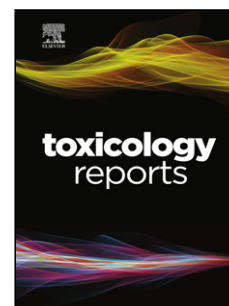
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Editorial ToxReports January 2017

“Toxicology: the basic science for human well-being and environmental health”

Aristotle, the great Greek philosopher, stated back around 350 BC that **‘*ἀνευ των αναγκάων αδύνατον και ζην και εύζην***, which means that **without the basics** it is impossible **to live and live well**. My own belief, as a toxicologist with more than 30 years of experience in the field, is that the science of toxicology and its effect on people and the environment is truly such a basic discipline, both for our existence, as well as for our well-being [1].

Toxicology, as well as other related sciences, is at a turning point, where vast diversity of knowledge will be taken into account regarding exposure to harmful factors and their induced diseases. Therefore, it is essential to strengthen the science of toxicology as an academic discipline, thus reminding governments and the public of the necessity of toxicology in protecting the health of consumers, workers, the general population and the environment [2].

We live in an extraordinary age. These are times of stunning changes in social organization and economic well-being. Many countries are struggling under the weight of what is perhaps the worst economic recession in recent memory, while Europe faces a great wave of immigration. Nonetheless, today we are far better equipped to take on the challenges we face than ever before. Toxicology provides the means to come up with cures for diseases and new sources of energy, and help us build healthier, more successful societies [1,3].

The new Editor-in-Chief has a special interest in low-dose, long-term effects from combined exposures. This is a new challenge for the Toxicology of the 21st century as many recent studies have shown correlations between long-term exposure to xenobiotics and chronic diseases, even of very low doses, but none have provided until now a mechanistic interpretation of any observed effect nor have outcomes been linked with exposure to a chemical mixture. He supports the necessity for new experimental methodologies, which seek to provide at the same time multiple answers to multiple questions related to current concerns about mixtures of chemicals from many different sources at doses around or well below the

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