Welcome Message by Co-Chair, Jerry E. Blythe, MD

The 21st Century is bringing new ways of thinking about diseases. Berlin is hosting the 2nd World Summit on Toxicology and Applied Pharmacology in 2019 with leading scientists and clinicians sharing the latest ideas in toxicology, metabolic diseases and environmental health.

Even with the many advances in biopharma and cloning of eight more mammals since Dolly, we are still identifying previously unknown hormones with important metabolic roles, as well as compounds acting as endocrine disruptors, altering metabolic pathways and creating disease. Endocrinologist, Brian Feldman, at Stanford University said, “It’s astonishing that to this day, we’re still discovering hormones that we didn’t know existed.”

Intense research has been focused on harnessing the power of the Microbiome, those 50 to 100 trillion microbes in our bodies, and the power of protein evolution, all with a commonality of developing verifiably safer products and eradicating toxins from ourselves and the environment. Analysis kits are even available to rapidly test for levels of bifido bacteria in a baby’s gut Microbiome, bacteria whose ratios diminish with age.

Toxicologists face issues where toxins in some species, like plants, may not be toxins in other species, like humans. And, toxins don’t always have the same effect in everyone. Whether a compound is toxic or not, may depend on load and chronic exposure, including drugs which can have unintended consequences.

And, in some instances, certain medical conditions, drugs and toxins can have unexpected benefits, where the presence of one condition is protective against another. Thalassemia minor and malaria are one such example. Carrying a recessive allele can be protective against malaria. Researchers are collaborating to learn more about such examples in developing better solutions, a cleaner environment and more personalized care.

This is a watershed moment in history when the global community has come together. Already USDA Organic delivers over 4% of the food sales in the United States. People are pursuing personal detoxification programs. Use of biosensors is growing. Commercial buildings are meeting LEED standards for healthier work environments. Exercise activities are found in every community. These are but a few of the changes occurring.

Chronic diseases once deemed impossible are experiencing breakthroughs. Examples are neurodegenerative diseases like Dementia and Alzheimer’s, but there is a long way to go before we see cures. Solutions appear to have much to do with the elimination of toxins and rebalancing of health.
We are seeing a fusion of talent, technology and resources with private industry and government to deal with the growing alarm of toxic debris piling up all over the planet. Industry itself has become the leading vector of disease. Nutritional values of many food sources have plummeted over the past 100 years and are being altered at a faster rate than at any other time in history. Plastics are found in everything from medicine and grocery bags to clothing and water bottles, with many now identified as toxins and endocrine disrupters.

Attendees of this June 2019 World Summit will hear from scientists and clinicians on the cutting edge of research and treatment of these problems.

Jerry E. Blythe, MD

Cancer survivor. Identified and removed toxins, reversing the course of his disease, Chronic Lymphocytic Leukemia.

50 years of history and data will be reviewed in the Workshop


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