



Current trends in fish *in vitro* toxicology: Applications of 3Rs principles

10th May 2017, SETAC Europe 27TH Annual Meeting, Brussels

Announcement

There is a great societal need for better understanding of the potential impact of contaminants present in the aquatic environment. A large number of compounds with diverse mode of actions require registration under REACH. This highlights the need for methodologies that can be used for toxicity and safety assessment while adopting the principles of the 3Rs.

Tissue and cell culture systems can progress the fundamental understanding of biological processes in controlled artificial environments. The development of new fish-based culture systems brings the potential for realistic, high throughput methods that have the potential to **Replace, Refine and Reduce** the existing *in vivo* tests within regulatory requirements. The information obtained could also be extrapolated or translated to mammalian studies.

This workshop aims to highlight current trends in fish *in vitro* toxicology, especially with respect to new and emerging tools, which may benefit the acceptance of such models in a regulatory framework. The outcome of this workshop aims to benefit scientists working in academia, industry and regulatory agencies by sharing information and discussing future directions. The meeting will provide a much-needed avenue to explore strategies to promote the adoption of these *in vitro* tools.