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*Toxicology in Vitro* publishes original research papers and reviews on the application and use of *in vitro* systems for assessing or predicting the toxic effects of chemicals and elucidating their mechanisms of action. These *in vitro techniques* include utilizing cell or tissue cultures, isolated cells, tissue slices, subcellular fractions, transgenic cell cultures, and cells from transgenic organisms, as well as *in silico* modelling. The Journal will focus on investigations that involve the development and validation of new *in vitro* methods, e.g. for prediction of toxic effects based on traditional and *in silico* modelling; on the use of methods in high-throughput *toxicology* and *pharmacology*; elucidation of mechanisms of toxic action; the application of *genomics*, *transcriptomics*, and *proteomics* in toxicology, as well as on comparative studies that characterise the relationship between *in vitro* and *in vivo* findings. The Journal strongly encourages the submission of manuscripts that focus on the development of *in vitro* methods, their practical applications and regulatory use (e.g. in the areas of food components cosmetics, pharmaceuticals, pesticides, and industrial chemicals). *Toxicology in Vitro* discourages papers that report on toxicological effects from materials, such as plant extracts or herbal medicines, that have not been chemically characterized.

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