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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 record reporting on toxicological effects from materials, such as plant extracts or herbal medicines, that have not been chemically characterized.

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