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## **Advanced in vitro models for studying drug induced toxicity**

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ADVANCED *IN VITRO* MODELS FOR  
STUDYING DRUG INDUCED TOXICITY

SREENIVASA RAMAIAHGARI

Advanced *in vitro* models for studying drug induced toxicity  
Sreenivasa Ramaiahgari  
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Cover: Designed by Sreenivasa Ramaiahgari. 96-well microplate on Nikon imager. Immunofluorescent images of 3D cultures: Top panel - HepG2 spheroids:  $\beta$ -catenin (left) and MRP2 (right) staining; Actin stained kidney proximal tubules (left) and MCF-7 (Breast cancer cell) spheroid (right) stained for actin and nuclei (blue).

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# ADVANCED *IN VITRO* MODELS FOR STUDYING DRUG INDUCED TOXICITY

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**Sreenivasa Chakravarthy Ramaiahgari**

geboren te Pulivendula, India  
in 1981

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*To my sister*





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