



## Mahatma Gandhi – Doerenkamp Center (MGDC)

For Alternatives to Use of Animals in Life Science Education  
Bharathidasan University, Tiruchirappalli 620 024, India



### Invitation for Research Proposals to Avail IdMOC Cell Culture Plates (AP Sciences Inc., USA) as a Compliment

**Integrated discrete Multiple Organ Co-culture (IdMOC) technology** is a promising experimental model that can effectively replace the use of animals in myriad biomedical applications (for more details, please visit <http://apsciences.com/www.mgdcaua.org>). MGDC has embarked on mission to introduce this technology to Indian scientists via a special arrangement with Dr Albert P. Li of Advanced Pharmaceutical Sciences, Inc., the inventor of IdMOC. Through this arrangement, Dr Li will provide a gift of a substantial number of IdMOC plates to MGDC for distribution to qualified and competent Indian scientists interested in *in vitro* toxicology/pharmacology for their research endeavors. The MGDC hereby invites **Proposals aiming at replacement of animals in toxicology/ pharmacology research with IdMOC technology** on any theme in biomedical science/ pharmacology/life sciences. Those who intend to avail this offer may send one-page description of his/her proposed research including the following details: (1) Research objectives; (2) Experimental design; (3) Timeline; (4) Number of plates that will be required and (5) Number of animals to be replaced by IdMOC, to **The Director**, MGDC at MGDC e-mail id: [director@mgdccloud.org](mailto:director@mgdccloud.org). Research proposals chosen by MGDC will be granted IdMOC plates for the research.

**About IdMOC:** The IdMOC has been developed as an *in vitro* experimental system for the evaluation of human xenobiotic metabolism, distribution and toxicity. It is based on the concept that in the human body there are multiple organs that are physically separated but are interconnected by the systemic circulation, which allows multiple organ interactions. An example of multiple organ interaction is the metabolism of a toxicant by the liver, with the resulting metabolites entering the systemic circulation, leading to the exposure of distal, non-hepatic organs to these metabolites, producing toxicity in these distal organs. The IdMOC technology makes use of very specially designed culture plates which provide for culturing 3 or more cell types at a time, first independently and then allowing the cultures to interact through a culture medium that simulates the circulatory system *in vivo*. Further details can be had from the articles listed here-in, and several others that could be collected from the web.

#### References:

Albert P. Li *et al.*, 2004, *Chemico-Biological Interactions* **150**: 129–136 (<http://apsciences.com/IdMOC-Li-2004.pdf>)

Albert P. Li, 2008, *ALTEX*, 25: 43–49 (<http://www.invitroadmet.com/LiAltexIdMOC.PDF>).

Director, MGDC