Integrated approaches that avoid the use of animals to assess the toxicity of inhaled materials may include a computational model to screen for chemical reactivity, a human tissue-based assay to predict the absorption of a chemical into the respiratory tract, and other types of advanced systems based on in vitro and in vivo respiratory biology. A comprehensive review of the progress and ongoing efforts in this fascinating field is the focus of a new special issue on *Inhalation Toxicity*.
in a lively discussion on topics including the breadth of nonanimal approaches, their advantages and limitations versus animal inhalation tests, and how to move forward.

"I am pleased with this special issue of Applied In Vitro Toxicology as it focuses on an area of great importance for risk assessment, which has been a challenge to address using in vitro methods. This issue does a wonderful job demonstrating how in vitro methods can be successfully used to understand inhalation toxicology," says Jim McKim, Ph.D., Editor-in-Chief of Applied In Vitro Toxicology and Founder and CEO, IonTox, LLC.


Provided by Mary Ann Liebert, Inc

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