

Inhalation

www.inhalationmag.com

February 2019 Volume 13 Number 1



Cover image shows the Kinaero™ High-Throughput Fire Down System, which automates the fire down process of pMDI devices for through-life testing, from Proveris Scientific Corporation, Two Cabot Road, Hudson, MA 01749, US, Tel.: +1 508 460-8822, www.proveris.com

product development/contract testing

7 Defining the dosage strength for labeling of DPIs: Use, limitations and relevance of *in vitro* data
Jagdeep Shur, Robert Price, Tim Rouse, David Lewis, Dilraj Singh, Bradley Morrical and Stephen Edge

14 Issue focus: Product development/Contract testing

formulation development/excipients

16 Special section: Formulation development/Excipients

additional features

4 Cross-industry organizations: IPAC-RS: An update on recent activities

17 Point of View: Recommendations to a young scientist to pursue inhalation research

Igor Gonda

24 Back Page: US FDA approves over-the-counter, non-CFC-based Primatene® Mist; Patient advocacy groups object

meetings

6 Previewing the Inhalation & Respiratory Drug Delivery USA Congress

22 A preview of Respiratory Drug Delivery (RDD®) Europe 2019

departments

3 Industry news

22 Respiratory medicine news

Cover 3 Calendar

Cover 3 White papers

Inhalation (ISSN 1937-0717 print; ISSN 1940-414X online) is published six times per year in February, April, June, August, October and December by CSC Publishing, Inc., 1155 Northland Drive, Saint Paul, MN 55120.