



***Upcoming FREE Webinar sponsored by the Controlled Release Society and the One Health Initiative:***

***One Health – Embracing in silico models for therapeutic needs in humans and animals.***

**Date: July 28, 2016**

**Time: 11 AM EDT**

The program is designed as a three-lecture series. The first lecture in this series will present an overview of the One Health initiative and of the application of in silico (mechanistic) models for supporting therapeutic product development across a diverse patient population (human or veterinary).

To register for Webinar 1, please go to:

<http://www.controlledreleasesociety.org/Webcasts/Pages/OneHealth2016July28.aspx>

### **Webinar Summary:**

The One Health Initiative is a worldwide strategy for expanding interdisciplinary collaborations and communications in all aspects of health care for humans, animals and the environment (<http://onehealthinitiative.com/>). Whether dealing with the development of shared diseases among humans and animal species (physiological diseases such as those involving the cardiovascular system or cancer) or efforts to combat infections and drug resistance, tools are needed to optimize the efficiency with which we utilize existing information to support therapeutic drug development. Such tools can likewise be used to predict the potential absorption of substances resulting from their unintended environmental exposures. It is this perspective that provides the impetus for this webinar series where we explore the meaning of the One Health initiative and how we can best utilize existing information to support the development of therapeutic formulations for use in humans and veterinary species, to adjust dosages or dosage forms to meet emergency needs that may arise around the globe, or how to explore exposure risks that may occur in the presence of environmental toxins.

The presenters are:

- a. Marilyn N. Martinez, Ph.D., US FDA/Center for Veterinary Medicine/Office of New Animal Drug Evaluation, Rockville, Maryland.
- b. Bernadette Dunham, D.V.M., Ph.D., Milken Institute School of Public Health, George Washington University, Washington, D.C.

- c. Xinyuan (Susie) Zhang, Ph.D. US FDA/Center for Drug Evaluation and Research (CDER) /Office of Generic Drugs (OGD) /Office of Research and Standards (ORS) / Division of Quantitative Methods and Modeling (DQMM)

The top 2 takeaways that attendees can expect are:

1. The One Health Initiative provides a unique opportunity to leverage knowledge and research across disciplines in order to develop therapeutic options that address the emerging health issues impacting human and animal health.
2. Computer-based mechanistic models are an invaluable tool for facilitating an integration of information derived from in vivo and in vitro sources, thereby optimizing the efficiency of efforts to address the evolving and global therapeutic needs.

The agenda for the first webinar program is as follows:

- (a) **Welcome and overview – 5 min Dr. Martinez**
- (b) **One Health overview – 15 min Dr. Dunham**
- (c) ***In silico* modeling overview – 15 min Dr. Martinez**
- (d) ***In silico* modeling: examples in human health – 15 min Dr. Zhang**
- (e) **Closing comments: 5 min Dr. Martinez**

This webinar will be followed by two additional webinars in the upcoming weeks:

- **August 18, 11 AM EDT: Dr. Viera Lukacova: Part II: Use of in silico models to promote an understanding drug pharmacokinetics and for formulation optimization**
- **September 01, 11 AM EDT: Amin Rostami-Hodjegan: Part III: Use of in silico models to promote an understanding drug pharmacokinetics and pharmacokinetic/pharmacodynamics relationships across human and veterinary populations.**

This series of three webinars will showcase the strengths and potential application of these tools for use by researchers involved with understanding the biopharmaceutics, pharmacokinetics and pharmacokinetic/pharmacodynamics relationships of pharmaceutical drugs and drugs in formulations (including those scientists from academia, industry, and government), physicians, veterinarians, and environmental scientists.

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### One Health Initiative Webinar Series: Part 1

One Health - Embracing in silico models for therapeutic needs in humans and animals

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**Start Date:** Thursday, July 28, 2016

**End Date:** Thursday, July 28, 2016

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