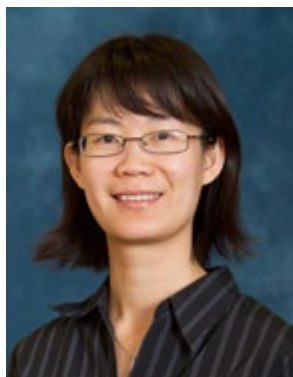


# Academic Webinar Series



## **Lili Zhao, Ph.D.**

Research Assistant  
Professor,  
Biostatistics  
Department,  
University of Michigan  
USA

**July 25th, Tuesday  
9-10 am EST**

For more information  
regarding upcoming  
webinar schedule,  
please contact:  
[medecc.us@boehringer-  
ingelheim.com](mailto:medecc.us@boehringer-<br/>ingelheim.com)

## **Title**

Bayesian Designs in Oncology Clinical Trials

## **Abstract**

Dr. Zhao will briefly discuss three Bayesian methods in designing and analyzing oncology trials, including:

(1) Time-to-Event Continual Reassessment Method (TITE-CRM) in Phase I trials where the goal is to find a maximum tolerable dose for a new therapy

(2) Decision-theoretic method to monitor progression-free survival in two-stage Phase II trials

(3) Bayesian mixture model, using longitudinal tumor size data, to estimate clinically useful endpoints, such as a response rate and time-to-progression, as well as biologically meaningful endpoints, such as a cancer cell killing fraction and tumor growth delay

If time allows, Dr. Zhao will also talk about a newly designed phase II trial with multiple subgroups.

## **Professional Biography**

Dr. Zhao is a Research Assistant Professor of Biostatistics. Her research interests include Bayesian statistics, survival analysis, clinical trial designs, RNA-Seq data analysis, mixture models and multivariate analysis. Dr. Zhao also served as a lead statistician in the Comprehensive Cancer Center at the University of Michigan from 2007-2011.

## **Sponsored by**

- American Statistical Association (Connecticut Chapter)
- Boehringer Ingelheim Pharmaceuticals, Inc. (Biostatistics and Data Sciences Department)

