



## Basel Biometrics Society Seminar Basel, 1<sup>st</sup> November 2019

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### First announcement - BBS Seminar: Predictive modelling, machine learning and causality

**Date:** Friday, November 1<sup>st</sup>, 2019, 08:30-16:45

**Venue:** Auditorium Roche Building 683, Viaduktstrasse 31-35, Basel

The BBS is pleased to host a full-day seminar on predictive modelling, machine learning, and causality with several eminent speakers. The talks will present recent methodological advances and challenges as well as case studies from the pharmaceutical industry and academia. We welcome all quantitative scientists to this event which will be a great opportunity to meet with colleagues and exchange ideas on this emerging and vibrant field.

The seminar is free of charge but registration is mandatory for organizational reasons. Please register via email to [fred.sorenson@xcenda.com](mailto:fred.sorenson@xcenda.com) by Friday, October 18, 2019, the latest.

#### Program:

- 08:30 – 9:00 **All**  
Registration
  
- 09:00 – 9:15 **Uli Burger, BBS President**  
Welcome and introduction
  
- 9:15 – 10:00 **Ewout Steyerberg, Leiden University Medical Center and Erasmus MC**  
Clinical prediction models in the age of artificial intelligence and big data
  
- 10:00 – 10:30 **Coffee break**
  
- 10:30 – 11:15 **Willi Sauerbrei, University of Freiburg**  
The EQUATOR network and guidelines for prediction models
  
- 11:15 – 12:00 **Torsten Hothorn, University of Zurich**  
Score-based transformation learning
  
- 12:00 – 12:55 **Lunch**
  
- 12:55 – 13:40 **Peter Bühlmann, ETH Zürich**  
Causal regularization for distributional robustness and replicability
  
- 13:40 – 14:00 **Case study 1: Giusi Moffa, University Hospital Basel**  
Predicting putative intervention effects after causal structure learning from survey data
  
- 14:00 – 14:20 **Case study 2: Andrew Shattock, Swiss TPH**  
Using machine learning and disease models to evaluate target product profiles of novel interventions
  
- 14:20 – 14:50 **Coffee break**

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14:50 – 15:10 **Case study 3: Federico Mattiello, Roche**

Identifying high-risk patients in Non-Hodgkin lymphoma (and trying to get insights into the disease biology)

15:10 – 15:40 **Mark Baillie, Novartis**

Novartis benchmarking initiative: making sense of AI

15:40 – 16:10 **Chris Harbron, Roche**

Experiences from running internal prediction challenges within a pharmaceutical company

16:10 – 16:40 **Panel discussion with all the speakers**

16:40 – 16:45 **Uli Burger, BBS president**

Closure

**We look forward to your participation!**