



大阪医学統計学セミナー 第65回

Osaka Biostatistics Seminar

7月19日 (水)
13:30~14:45



OSAKA UNIVERSITY

場所：
医学系研究科基礎研究棟L階
医学統計学研究室
オンライン開催

参加ご希望の方は、前日までに下記
問い合わせ先にメールにてお申込み
ください。

**「Innovative study designs in the era of
precision medicine」**

**Speaker : Haiyan Zheng
MRC Biostatistics Unit, University of Cambridge**

Abstract :

Precision medicine trials go beyond assessing if a new treatment works on average to investigating which subgroups of patients can benefit and to what extent. Innovative approaches, such as master protocols, are increasingly used for the simultaneous evaluation of many treatments, or subgroups, or both, under an overarching study design. This talk will provide an overview of precision medicine trials as well as insight into efficient designs for such studies. Focusing on one distinctive type known as basket trials, I will introduce several Bayesian models that (1) characterise the complex data structure, and (2) feature borrowing of information between patient subgroups. In particular, the latter reflects the consideration that eligible patients share a commonality (e.g., a genetic aberration or clinical symptom) targeted by the new treatment. Our latest research in this series about sample size determination, together with an easy-to-implement software, will be presented. Perspectives will also be given on the future development of design, conduct and analysis of precision medicine trials.

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