

國立中央大學

統計研究所

學術演講

主 講 人：Prof. James O. Berger (Arts and Sciences Professor of Statistics,
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講 題：Reproducibility of science: p-values, multiple testing and optional stopping

時 間：107 年 11 月 07 日 (星期三) 下午 13：30 ~ 15：00

地 點：中央大學鴻經館116室

ABSTRACT

Three of the statistical causes for the lack of reproducibility of science will be discussed, along with a suggested cure. The first cause is the common misinterpretation of p-values; the second is the frequent lack of sufficient adjustment for multiple testing; the third is the common ignoring of optional stopping when testing. The suggested cure for all three is to use odds of hypotheses as the basic inference tool. Surprisingly, this can be done in a way that simultaneously accommodates both frequentist and Bayesian reasoning.

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