

國立中央大學

統計研究所

學術演講

主 講 人：吳宏達教授（國立中興大學應用數學系）

講 題：Meta Analysis of Variance with Bias Correction in Metabolomic Studies

時 間：108年10月1日（星期二）上午11：00 ~ 12：00

地 點：中央大學鴻經館M429室

茶 會：上午 10：30 ~ 11：00 地 點：鴻經館 510 室

ABSTRACT

Migrating salmon are possibly impacted by crude oil due to maritime transport. Tissue samples have been collected from surviving smolts, distinct metabolites were analyzed by one-dimensional ^1H nuclear magnetic resonance spectroscopy. The age-dependent ANOVA results replicated at several exposure levels reveal the need of combining information across experiments to enhance statistical power. In the integration of several ANOVA studies under specific alternative hypotheses, we impose technical conditions on the parameter adaptive to varying sample sizes. An “integrated likelihood” method is proposed. As binning is necessary for spectroscopic data output, possible horizontal truncations lead to biased ANOVA results. Parametric modeling on the truncation allows reducing the bias to a tolerable extent.

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