Multi-marker modeling with kidney-related biomarkers and cardiovascular outcomes

Ryosuke Fujii, PhD

Institute for Biomedicine, Eurac Research, Italy
Department of Preventive Medical Sciences, Fujita
Health University School of Medical Sciences, Japan

In his talk, practical examples of confirmatory and exploratory factor analysis will be presented along with several research findings in nephrology. The first example is to integrate four biomarkers related to kidney function into a single latent factor in the general population of South Tyrol (N=1,300), and examines the association between the latent factor and binary outcome of cardiovascular disease risk scores (Fujii R, et al. *PLoS One* 2023). The second example included our similar attempt in the UK Biobank participants (N=360,000), and examined the associations between latent factors and all-cause and cause-specific mortality using time-event analysis (Selected as an oral presentation at the European Renal Association (ERA) conference 23, Milano). In this talk, he will briefly explain statistical methods to evaluate the performance of predictors such as discrimination and prediction ability.

Dr. Fujii is a Senior Researcher at the Institute for Biomedicine, Eurac Research (Italy) and an Assistant Professor at the Department of Preventive Medical Sciences, Fujita Health University School of Medical Sciences (Japan). His research interest at an early-career stage was epidemiological relationships among biomarkers, nutritional intake, genetics, epigenetics, and chronic diseases in Japanese populations. The current primary research theme is genetic epidemiology for population-based studies of chronic disease, particularly cardiovascular disease, and chronic kidney disease.

The seminar will be also available on ZOOM:
MEETING ID: 651 0002 8770
PWD: 490973

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Aula De Lillo, Building 7, Piazza dell'Ateneo Nuovo 1, Milano