



Kyoto University School of Public Health  
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# Next Generation of Epidemiology and Population Health Science

by

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Date: 2020 February 20<sup>th</sup> (THU)  
Time: 10:30-12:00  
Venue: Seminar room, Third floor  
Medical Library  
Medicine Campus, Kyoto University  
(Building no. 3 on the map: <http://bit.ly/1hIbR2j> )

**Class aims:** To introduce the interdisciplinary research field of molecular pathological epidemiology (MPE) conducted by Prof. Shuji Ogino. The aim of this talk is to enhance understanding in the area of molecular pathological epidemiology (MPE).

**Content:** Health sciences are increasingly important in the 21st century with epidemics of various chronic diseases and their risk factors (e.g., industry-driven unhealthy environment, diet, and lifestyle), increasing global inequities, and climate changes. To address challenges, advancements of biotechnologies and information technologies can help health sciences transform. Molecular pathological epidemiology (MPE) can provide an exemplary model of such a transformation. MPE is a next-generation field of epidemiology. MPE research can link risk factors to mechanistic signatures of disease and refine effect size estimates of associations, thereby providing stronger evidence for causality. The MPE approach can be generalized to wider health science fields, and therefore, advance biomedical and health sciences.

**Expected outcomes:** The objectives of this lecture are to introduce the different topics and methodologies that Prof Ogino is engaged in in the area of molecular pathological epidemiology (MPE).

Although walk-ins are welcomed, we prefer that you register through the link below so that we can prepare enough handouts for you <https://forms.gle/DKSDKbsEsMGrELYq8>

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