

Division of Molecular Epidemiology

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General Summary

Despite having the same disease diagnosis, some patients may be cured, but others may not. This difference cannot be understood with experimental medicine. On the other hand, clinical practice might also not provide the answer. We combined molecular biology and epidemiology to create the Division of Molecular Epidemiology, to clarify the etiology of disease and to predict factors affecting survival.

Research Activities

The Jikei clinical research course

From May 2011 through March 2012, we held 10 seminars' about strategies for clinical studies for healthcare practitioners at The Jikei University. In 2011, small-group study courses targeting postgraduate students will be started from the principles of epidemiology and biostatistics by reading textbooks and by analyzing real clinical data with STATA software (StataCorp LP, College Station, TX, USA) and designing clinical studies. Our goal is for postgraduate students to develop the skills to construct hypotheses, design protocols, monitor trials, and analyze data.

Original studies

1. Randomized trial of vitamin D supplement
2. Genome and epigenome clinical studies and lead findings
3. Elective class in Global Health

Publications

Kakuda W, Abo M, Shimizu M, Sasanuma J, Okamoto T, Yokoi A, Taguchi K, Mitani S, Harashima H, Urushidani N, Urashima M; NEURO Investigators. A multi-center study on low-frequency rTMS combined with intensive occupational therapy for upper limb hemiparesis in post-stroke patients. *J Neuroeng Rehabil.* 2012; **9**: 4.

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Suzuki M, Yoshioka M, Hashimoto M, Murakami M, Kawasaki K, Noya M, Takahashi D, Urashima M. 25-hydroxyvitamin D, vitamin D receptor gene polymorphisms, and severity of Parkinson's disease. *Mov Disord.* 2012; **27**: 264-

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Yoshimura N, Goda K, Tajiri H, Yoshida Y, Kato T, Seino Y, Ikegami M, Urashima M. Diagnostic utility of narrow-band imaging endoscopy for pharyngeal superficial carcinoma. *World J Gastroenterol.* 2011; **17**: 4999-5006.

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