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# The 194<sup>th</sup> iCeMS SEMINAR

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**Tue 29 Sep 2015  
13:30-15:00**

**-Medical Gasology-  
Innovative Thinking that Transforms Medicine**

New Method of Cancer Screening by Gas Analysis of gas from the body and its treatment

Lecturer: **Dr Kazue Yamagishi**  
FAP Dental Institute

Venue: 2nd Floor Seminar Room (#A207)  
iCeMS Main Building (#77), Kyoto University

Accumulation of reducing sugars and amino acids in tumor tissue causes non-enzymatic reaction, which produces a great amount of gaseous sulfur-containing compounds such as methanethiol and hydrogen sulfide. These toxic compounds mutate P53 gene and result not only cancer proliferation in the tumors but also distant cancer metastasis by whole-body diffusion. Amount of gaseous compounds is eight times larger in the flatus of colon cancer patients than those in the flatus of healthy individuals, and increases with the cancer stage. We therefore propose a new therapy, "Medical Gasology" for cancers, achieved by removing excess gaseous compounds from the body.

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**Hosted by:** iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University

