

## Introduction of Symposium Session I

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Haruki Kitazawa is Associate Professor in laboratory of animal products chemistry, and vice director, Head of Livestock Immunology Unit in International Education and Research Center for Food and Agricultural Immunology, Graduate School of Agricultural Science, Tohoku University. He got his PhD on Immunomodulatory functions of phosphopolysaccharides produced by lactic acid bacteria in 1993. He has recently conducted international research works with CERELA-CONICET under Open Partnership Joint Projects of JSPS Bilateral Joint Research Projects. He also contributes as a guest editor in *Frontier Immunology*, *Microorganisms* etc. His present research activities focus, in particular, on immunoregulatory activities of immunobiotics, which are a member of probiotics able to beneficially regulate the mucosal immune system, in the gut together with the development of immunobiotic evaluation system via pattern recognition receptor family *in vitro* by using a variety of livestock cell lines.