

【Biological Sciences】

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| Title of Project | Comprehensive analysis of innate immunity |
| Principal Investigator Name | Shizuo Akira, Osaka University, Immunology Frontier Research Center, Professor |
| Abstract of Research Project | Innate immunity initially recognizes invading pathogens, eradicates them, and further activates acquired immunity. Innate immunity research field is rapidly advancing by studies including identification of roles of Toll-like receptors (TLRs). However, the entire picture of the molecular mechanisms has not been understood. The goal of this study is to clarify the molecular mechanism of the innate immune system from the initial pathogen recognition to the activation of acquired immunity. For the comprehensive understanding of innate immune system, we will integrate various approaches such as gene recombination techniques, molecular imaging and systems biology. |
| Number of Researchers : 4 | |
| Term of Project: 2008–2012 | |