



Diagnostic Challenge and Therapeutic Approaches in Human Sepsis Based on the Appearance of Endotoxemia and Beta-D-Glucanemia

Guest Editors:

Dr. Hiroshi Tamura

LPS (Laboratory Program Support) Consulting Office, Tokyo 160-0023, Japan;

Department of Host Defense and Biochemical Research, Juntendo University Graduate School of Medicine, Tokyo 113-8431, Japan; Tokyo University of Pharmacy and Life Science, Tokyo 192-0392, Japan

htamura@lpsct.com

Dr. Yoshiyuki Adachi

Laboratory for Immunopharmacology of Microbial Products, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Tokyo 192-0392, Japan

adachiyo@toyaku.ac.jp

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Message from the Guest Editors

Endotoxins, also called lipopolysaccharides (LPS), are the major constituent of the outer membrane of Gram-negative bacteria. Fungal (1 \rightarrow 3)-beta-D-glucan, a major component of the cell wall as well as endotoxin, have attracted a considerable amount of interest in applications as potential prognostic, diagnostic, and therapeutic markers in blood or body fluids.

In this Special Issue, we will focus on cellular and molecular mechanisms of endotoxin/beta-D-glucan activities; recent advances, limitations, and further challenges to the early detection of endotoxemia/beta-D-glucanemia, primarily with the *Limulus* amoebocyte lysate assay (conventional/recombinant); and promising therapeutic approaches based on cytokine/chemokine blockades, anti-endotoxin agents, host defense (antimicrobial) peptides, antifungal agents, highly effective anticoagulants, or direct hemoperfusion, with the aim to pave the way to successful innovative treatments and management of sepsis or septic shock.

Dr. Hiroshi Tamura

Dr. Yoshiyuki Adachi

Guest Editors





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