

第44回

The 44th Annual Meeting of the JSI
日本免疫学会学術集会
テクニカルセミナーT3

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日本語
で行われます
This seminar is
performed
in Japanese.

演題

Recent advances in the Safety Evaluation of
Influenza Vaccine by Multiplex Gene Detection
System in a Preclinical Study and Lot Release Test
バイオマーカーを用いた
次世代ワクチン安全性評価法の開発

演者

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日時

2015年 11月 19日(木) 13:00-14:00
November 19, 2015

場所

札幌コンベンションセンター Room C (中ホール B)

要旨

Vaccines are one of the most beneficial and universal tools for prevention of infectious disease. Unlike other pharmaceutical products most of the vaccines were mainly derived from pathogen itself, thus the safety and quality of vaccines is strictly evaluated in the preclinical phase of trials. In addition, after the marketing authorization, every vaccine lot must be tested by the National Control Laboratories (NCL) according to the guidelines published by each country and WHO. In this seminar, we will focus on the development process and quality control of vaccines. In addition, we will introduce the recent advances in the vaccine platform and new method for evaluating vaccine safety using toxicogenomic approaches. We recently developed a systems biological approach to vaccine safety evaluation where identification of specific biomarkers in a rat pre-clinical study evaluated the safety of influenza vaccines. Our identified 20 biomarkers could evaluate the safety, batch-to-batch and manufacturer-to-manufacturer consistency of seasonal trivalent influenza vaccine using a multiplex gene detection system (Quanti Gene Plex). These biomarkers will facilitate the future development of new influenza vaccines.

(出典：2015日本免疫学会総会・学術集会記録第44巻)

共催：日本免疫学会／アフィメトリクス・ジャパン株式会社・株式会社ベリタス