

## **Symposia of the 125<sup>th</sup> Annual Meeting of the Pharmaceutical Society of Japan**

### **S1 Synthetic Organic Chemistry: Young Challengers**

**S1-1 A Novel Methodology for the Synthesis of Cyclic Carbonates with Recycling of CO<sub>2</sub>**

Masahiro Yoshida (Graduate School of Pharmaceutical Sciences, Tohoku University)

**S1-2 Total synthesis of Sphingofungin E**

Tsuyoshi Nakamura (Medicinal Chemistry Research Laboratories, Sankyo Co., Ltd.)

**S1-3 New Approaches for the Synthesis of Macrophelides and Relating Compounds**

Yuji Matsuya (Faculty of Pharmaceutical Sciences, Toyama Medical and Pharmaceutical University)

**S1-4 Synthetic Study of Nucleoside Antibiotics**

Satoshi Ichikawa (Graduate School of Pharmaceutical Sciences, Hokkaido University)

**S1-5 Synthesis and Evaluation of Radicol Derivatives, Novel Hsp90 Inhibitors**

Yoji Ino (Pharmaceutical Research Center, Medicinal Chemistry Research Laboratories, Kyowa Hakko Kogyo Co., Ltd.)

**S1-6 Advances in the Total Synthesis of Azadirachtin by Means of Pericyclic Reactions**

Jun Ishihara (Graduate School of Biomedical Sciences, Nagasaki University)

**S1-7 Asymmetric Total Synthesis of Optically Active Natural Compounds Consisting Medium Sized Rings by Means of A New and Rapid Lactonization**

Isamu Shiina (Department of Applied Chemistry, Faculty of Science, Tokyo University of Science)