

# IMS-P1 **Chemical Library of Daiichi-Sankyo and Open Innovation with the Chemical Library**

○Tsunehiko SOGA<sup>1</sup>

<sup>1</sup>Research Oversight Function, R&D Division, Daiichi Sankyo Co., LTD

---

Chemical library is very important tool for generating lead compounds on the drug discovery research. In Daiichi-Sankyo, we have promoted the construction of our chemical library and open innovation with it.

Our chemical library compounds have various origins, such as our designed compounds for screening library, synthesized compounds for our medicinal chemistry research purpose, natural products from our laboratory, exchange of library compounds with other companies, and commercial available compounds including custom ordered one. As one of above origins, we introduce our designed chemical library named PharmaSpace Library (PSL). Compounds in PSL are synthesized by combination of many functional fragments obtained from various original pharmacological compounds. It has following merits; diverse pharmacophore types, lead-like structures and properties, rapid and comprehensive exploration of SARs, rapid re-supply of hit compounds.

As one of our open innovation activities, we can provide PSL and other compounds to outside research institutes for screening under individual contracts. We hope to obtain promising hit compounds with our chemical library through the research collaborations.