Treatered Stromp, Elsar Co., Ela.
High quality HTS hits are important for drug discovery programs to accelerate medchem campaign to
clinical candidate and improve the overall success rate in the drug development. To provide such high
quality HTS hits, sophisticatedly designed compound libraries play an important role in HTS strategy.
In addition, a compound library with enhanced CNS drug-likeness (good brain penetrability and good
oral availability) should improve the productivity of drug discovery programs in the neuroscience area.
Against this background, we have been constructing a CNS-focused compound library by:

<sup>1</sup>Medicinal Chemistry, Neurology Tsukuba Research Department, Discovery, Medicine Creation,

Development and Construction of an Original Compound Library for CNS Drug Discovery: Combining Computational and Wet Data to Enhance CNS

26G-ISMS07

**Drug-likeness** 

O Daiju HASEGAWA<sup>1</sup>

structures with inherent liabilities.

Neurology Business Group Eisai Co Lid

• Newly-designed compounds based on structurally novel scaffolds.

In this poster, we describe our strategy for constructing a CNS-focused compound library utilizing the

• Extensive in vitro, in vivo and physicochemical characterization of library members to eliminate

• Innovative design to improve the probability of the compounds reaching the CNS.

combination of a computational scoring system and in vitro/in vivo DMPK data. In addition, we also describe how we gathered our original scaffold collection to emphasize structural novelty in the library.