

化学科 & リーディング大学院講演会

Department of Chemistry, Faculty of Science &
Leading Graduate School Promotion Center, Ochanomizu University
お茶の水女子大学理学部化学科、共催：リーディング大学院推進センター

Modulating ABC Transporters at Blood Brain Barrier



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The multidrug resistance transporters P-glycoprotein (P-gp) and ABCG2 are highly expressed in capillary endothelial cells of the blood-brain barrier. These transporters effectively limit the brain penetration of many drugs, including antipsychotic agents used to treat schizophrenia, by actively effluxing the drugs out of cells and into the blood stream before they can reach their targets. This seminar will discuss our novel chemical approach to increase the brain concentration of drugs used to treat brain disorders. We have developed a new class of agents - Trojan Horse dimers of known drugs to evade transporters at the BBB and deliver therapies to the brain. The synthesis, biochemical characterization and cellular and *in vivo* efficacy of these novel agents will be presented.

日時： 2017年3月29日(水) 15:40~16:40

場所： 化学科第1講義室(理1-415)

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