



HOKKAIDO UNIVERSITY

AMBITIOUS LEADER'S PROGRAM

Fostering Future Leaders to Open New Frontiers in Materials Science

Ambitious 物質科学セミナー

Phenanthroline Strapped Porphyrin

A Swiss Army Knife in Tetrapyrrole
Coordination Chemistry

Prof. Jean Weiss

UMR 7177 CNRS and
Strasbourg University



平成 27 年 2 月 9 日 (月) 14:00~15:30

北海道大学 理学部 7号館 7-219/220

In both fields of heme protein models and self-assembling materials, generic building blocks such as tetra-aminophenyl porphyrin have been used extensively. Although the formation of elaborated structures from the amino groups is very versatile, the stepwise engineering of a functional distal site or the directional control over self-assembly has always been a synthetic challenge due for example to atropisomerism.

Over the past decades, we have developed a generic strapped porphyrin bearing a distal phenanthroline unit. This new generic building block can serve in the design of heme protein models and self-assembling material. A summary of the most striking features of this structure that can serve several purposes and some immediate perspectives will be presented.

なお、Weiss 教授の研究室の大学院生 Mathilde Berville さんと関連分野の総合化学院生によるワークショップを 2 月 10 日 14:00 から 7-219/220 で行いますので、こちらのほうも是非ご参加ください。

連絡先：北海道大学大学院理学研究院化学部門 石森浩一郎
(Tel: 011-706-2707, Mail: koichiro@sci.hokudai.ac.jp)