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# AMBITIOUS LEADER'S PROGRAM

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Ambitious 物質科学セミナー

## Structural investigations into the mechanism of methylmercury degradation by the organomercurial lyase MerB

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**平成 30 年 6 月 7 日 (木) 13:30~14:30**

**北海道大学 理学部本館 N-308 室**

Select bacterial strains survive in mercury-contaminated environments due to the presence of the *mer* operon. The operon encodes two enzymes, the organomercurial lyase MerB and the mercuric ion reductase MerA.

Our structural studies (NMR and X-ray) have identified several important features responsible for the unique catalytic activity of MerB including key catalytic residues as well as atomic level details of carbon-Hg bond cleavage and inhibition by organotin compounds.

本講演は、大学院総合化学院『化学研究先端講義／総合化学特別研究第二』の一部として認定されています。

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