平成 26 年度第 2 回 VBL セミナー

2nd VBL Seminar, 2014

日時:平成 26 年 11 月 27 日 (木) 16 時 00 分~17 時 30 分

場所:名古屋大学 VBL3 階ベンチャーホール

講師: Prof. Xingguo Liang

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題目 : Nucleic Acids and Molecular Recognition - Mystery We Understood from Study on Nucleic Acids

要旨: Life is originated from a pond of molecules spontaneously, and nucleic acids (NA) were selected as the central molecules due to the self-recognition and catalysis capability. For more than fifteen years, we have concentrated our study on NA from the viewpoints of molecular recognition as well as the origin of life. At first, we understood more about NA duplex structure and its recognition by Enzymes from the study of azobenzene-modified NA. Based on base-pairing and chemical modification, a concept of synthesizing new nanomaterial for self-assembly was also proposed accordingly. Secondly, self-replication of DNA became possible due to our finding of unexpected DNA amplification in the absence of both template and primer. We further studied the mechanisms and applications of these studies to gene detection and DNA nanotechnology. At last the fate of NA we eat will also be discussed.

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