

Prof. Michael Blaber 特別講演会

演 題 : Stability and function in a symmetric protein architecture

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Medicine at Florida State University, U.S.A.)

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場所 : 九州大学薬学部 第3講堂

後援 : 日本薬学会九州支部

Abstract: Structural symmetry within protein architectures is a common occurrence; however, there appears to be a characteristic discrepancy between the symmetry observed at the level of the tertiary and primary structure. We have been studying the relationship between primary and tertiary structure symmetry in human acidic fibroblast growth factor (FGF-1) by mutational studies designed to increase the primary structure symmetry. The results suggest that there is likely an idealized b-trefoil architecture; one that is symmetric at both the primary and tertiary structure level, exhibiting extremely high thermal stability, and yet simultaneously devoid of function. “Defects” in the symmetry of such an idealized architecture likely contribute to the function, dynamics and evolution of the protein.

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