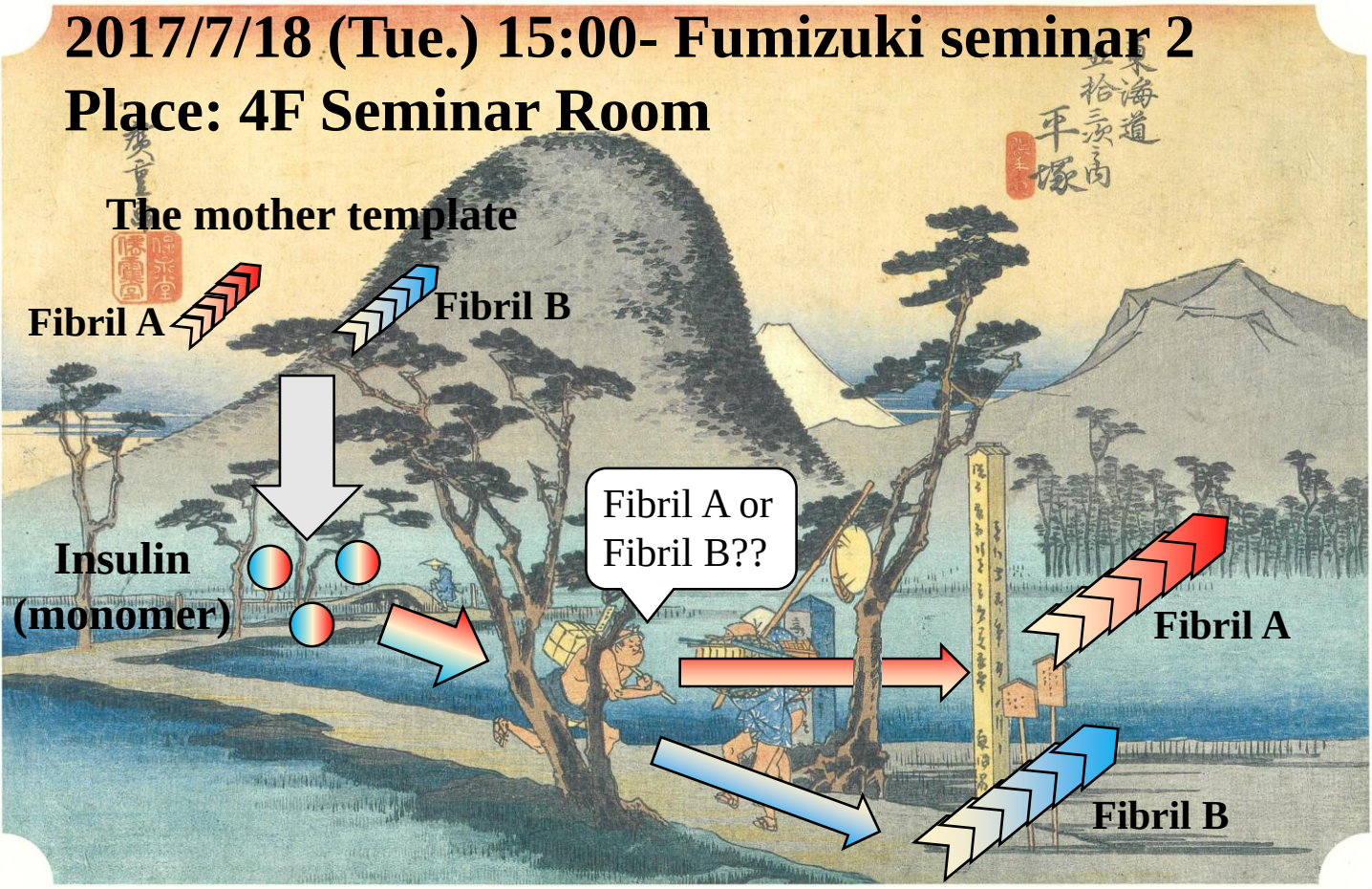
二〇十七年 七月 十八 火曜 十五時 開幕

文月セミナー 其ノ二

2017/7/18 (Tue.) 15:00- Fumizuki seminar 2

Place: 4F Seminar Room



"Self-seeding and cross-seeding of insulin amyloid fibrils: old mysteries solved, new mysteries found"

Speaker: Prof. Wojciech Dzwolak

(Department of Chemistry University of Warsaw, Poland)

Abstract

The conformational memory effect is a well-known phenomenon in propagation of amyloid fibrils. In short, daughter fibrils are supposed to have the same structure as the mother template (seed). In my talk, I will show results on self-seeding of bovine insulin (BI) amyloid and cross-seeding of BI and the LysB31-ArgB32 analog of human insulin (KR) probed by IR/CD and AFM. The results appear to explain origins of amyloid superstructures, on the other hand they suggest that monomer-fibril interactions are multistage and involve metastable detachable intermediate states.

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