

# Mini-Workshop on $\alpha$ -Synuclein Amyloid Formation

Date: Tuesday, June 17, 2025, 2:00 PM - 5:00 PM

Place: Lecture Hall, Institute for Protein Research, Osaka University

## Goal

Amyloid fibrils are associated with various amyloidosis including  $\alpha$ -synucleinopathies (Parkinson's disease (PD), dementia with Lewy bodies (DLB), and multiple system atrophy (MSA). Although recent studies clarified atomic structures of  $\alpha$ -synuclein amyloid fibrils, we do not know clearly how intrinsically disordered  $\alpha$ -synuclein forms amyloid fibrils, leading to distinct diseases. Dr. Aguirre and Prof. Baum introduce their recent studies, addressing the molecular mechanisms of amyloid fibril formation and its inhibition.

## Program

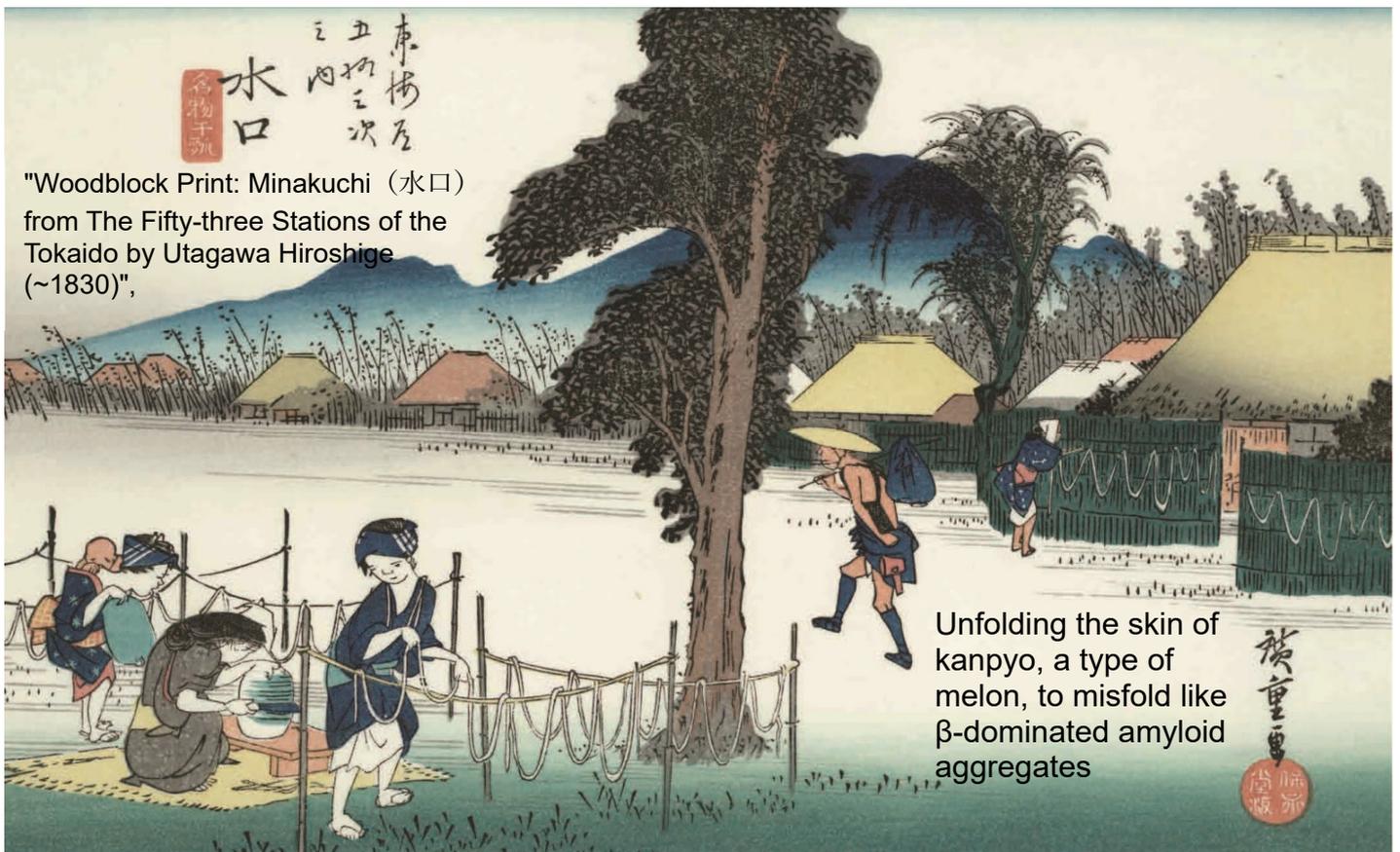
14:00-14:50: Conformational switch in the alpha-synuclein C-terminus domain directs its fibril polymorphism

Dr. César Aguirre Martínez (Osaka University Graduate School of Medicine)

15:00-16:00: Mechanisms of alpha-synuclein aggregation and inhibition

Prof. Jean Baum (Department of Chemistry and Chemical Biology, Rutgers University)

16:10-17:00: Roundtable discussion: seeking the new perspective of the amyloid world.



## Organizers

Yuji Goto (Graduate School of Engineering, The Univ. Osaka, Email: gtyj8126@protein.osaka-u.ac.jp)

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**Access:** <http://www.protein.osaka-u.ac.jp/access/#access>