



Nagoya Institute of Technology
 Physical Chemistry Seminar
 Friday, April 8, 3:00 PM
 1st Bldg, Room 204B

Amyloid fibril structures of β_2 -microglobulin fragments elucidated by vibrational spectroscopy

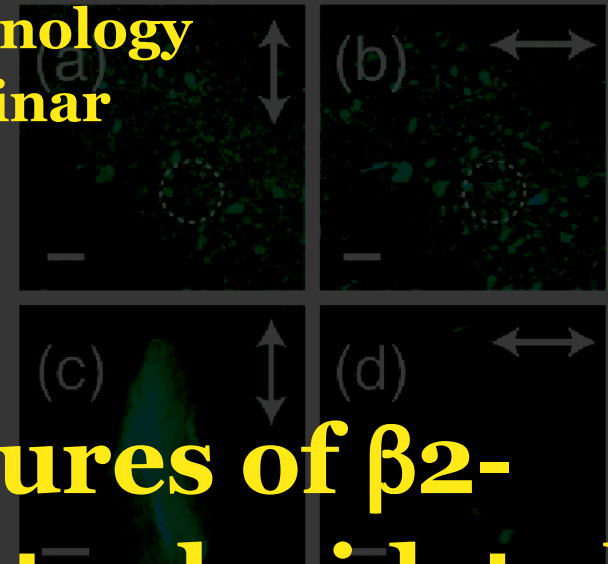
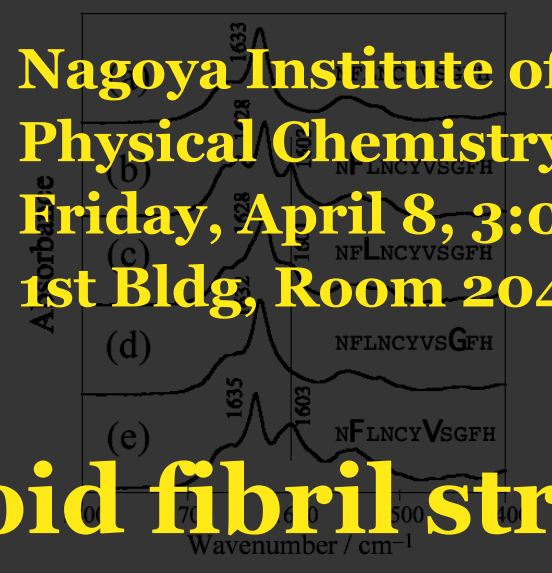


Figure 1. Fluorescence image of a pellet prepared with unilamin T for β_2 -microglobulin amyloid fibril. Scale bar denotes 200 μm (a,b) and 16 μm (c,d). Arrows indicate the polarization direction of excitation light.



Figure 3. Plausible structures of the amyloid core in the fibril of β_2 -microglobulin #21–31 peptide.

平松 弘嗣 博士

(岡崎統合バイオサイエンスセンター)

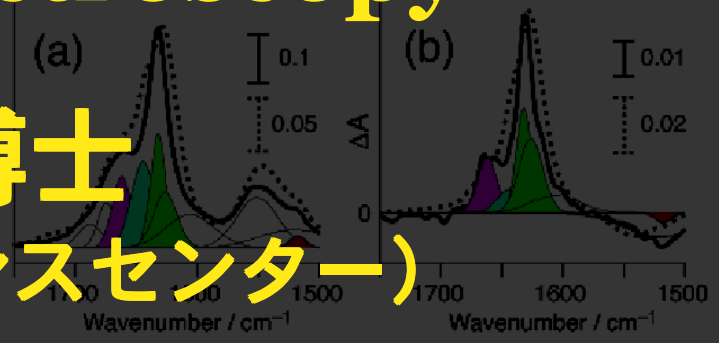
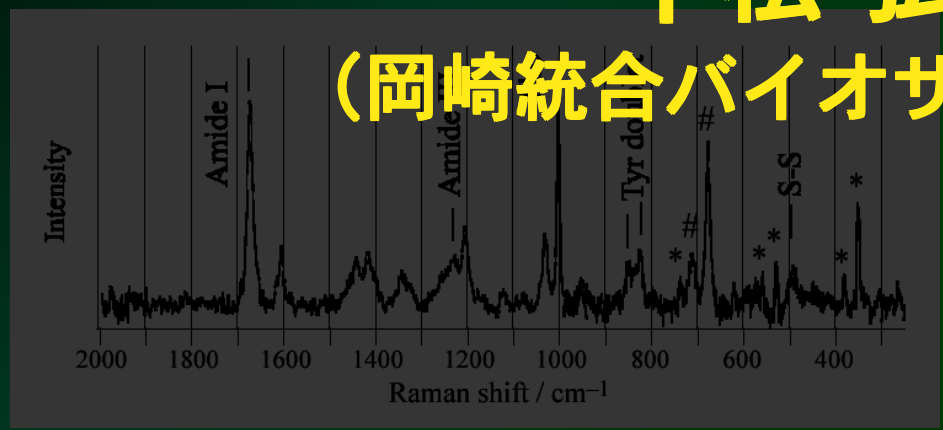


Figure 2. (a) IR absorption spectrum (solid thick) and decomposed contributing bands (solid thin), and (b) parallel-minus-perpendicular difference spectra (solid thin) of β_2 -microglobulin #21–31 peptide fibril. Pink, blue, green, and orange correspond to the bands at 1662, 1642, 1628, and 1603 cm^{-1} , respectively. Broken lines denote the spectra of β_2 -microglobulin oriented fibril before staining.

All inquiries to Hideki Kandori
 Tel: 052-735-5207
 kandori@nitech.ac.jp