

Mitochondrial ADP/ATP Transporter Studied by FTIR
Nagoya Institute of Technology
Physical Chemistry Seminar
Wednesday, October 27, 4:30 PM
1st Bldg, Room 204B

Mathematical Processing of Infrared Spectra of Proteins:

Curve Fitting and Band Narrowing

Dr. Víctor A. Lórenz Fonfría

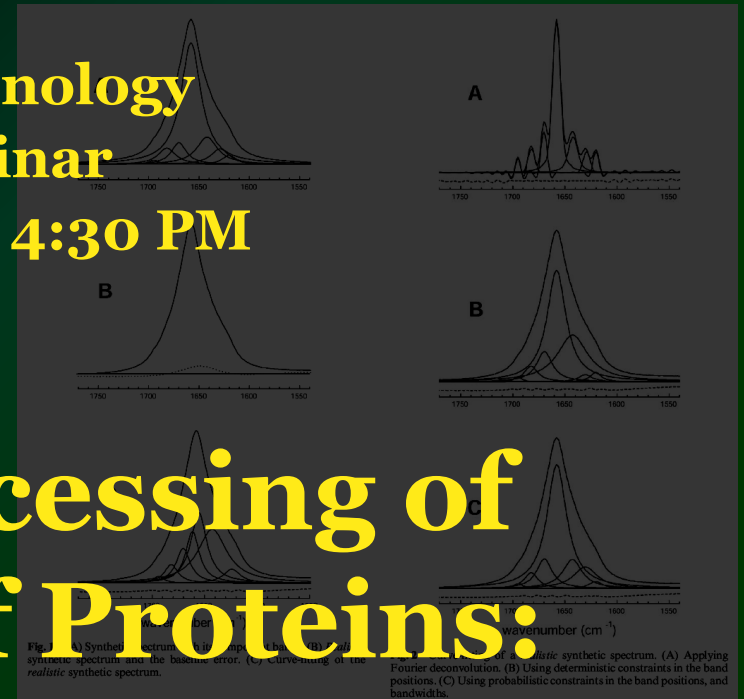
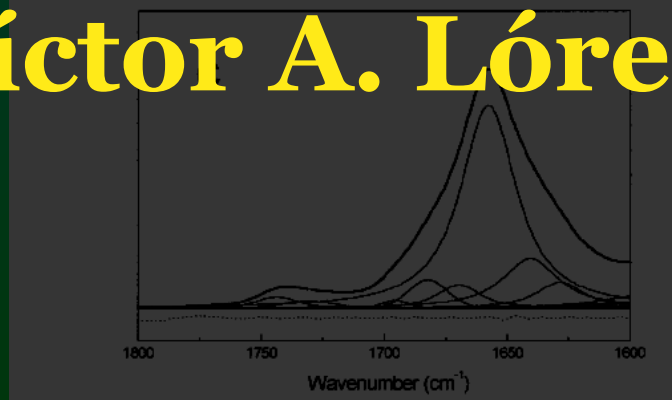
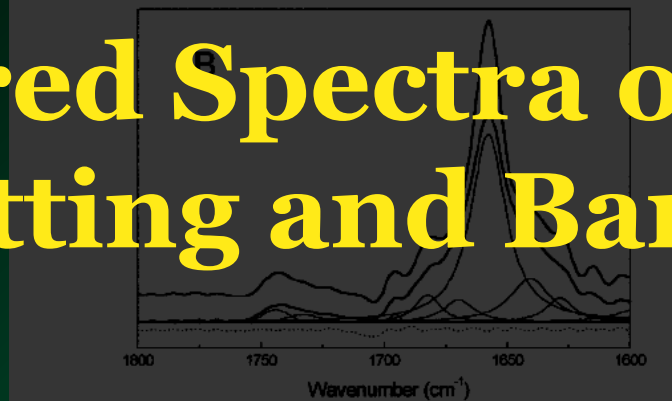
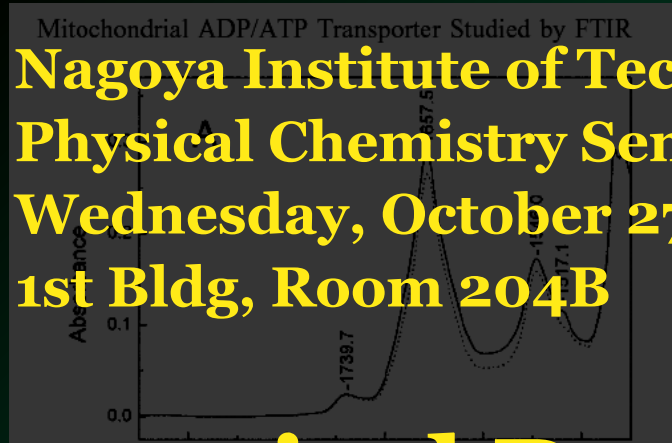
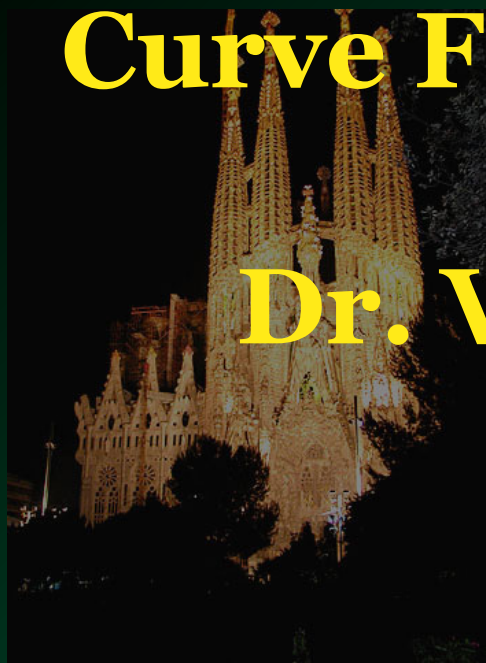


Table 5: Summary of the Curve Fitting of the deconvoluted spectrum and to the Original Spectrum of the Deuterated Reconstituted Carboxyatractyloside-Inhibited Anc2pHis Shown in Figure 6

deconvoluted		original		assignments ^b
position ^a	area %	position ^a	area %	
1680.0	1.6	1679.9	2.9	2.5% D-reverse turns + 0.1% D-β-sheets
1669.0	2.4	1668.1	7.1	3.5% D-reverse turns
1659.2	13.5	1657.1	15.7	11.8% H-α-helix + 1.9% D-reverse turns
1650.3	30.3	1650.3	30.9	30.9% D-α-helix (from 1659)
1640.7	21.2	1640.7	20.7	19% D-unordered (from 1659) + 1.7% H-β-sheets
1632.5	17.3	1632.5	17.4	11.8% D-unordered (from 1648) + 5.5% D-β-sheets
1623.4	7.7	1623.3	7.1	7.1% D-β-sheets
1617.3	1.3	1617.7	1.3	tyrosine

^a In cm⁻¹. ^b The D prefix refers to a deuterated structure and the H prefix refers to a non-deuterated structure. For more information about how the assignments were performed, see the text.

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