

Correction to Distinguishing Amyloid Fibril Structures in Alzheimer's Disease (AD) by Two-Dimensional Ultraviolet (2DUV) Spectroscopy

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The tyrosine (Y) residue was labeled as Y9. The correct label is Y10.

Page 9814. In Figure 8, the 2DFUV signals of Model 1 included only the contributions from the backbone¹ whereas Models 2 and 3 included the side chains. To make a fair

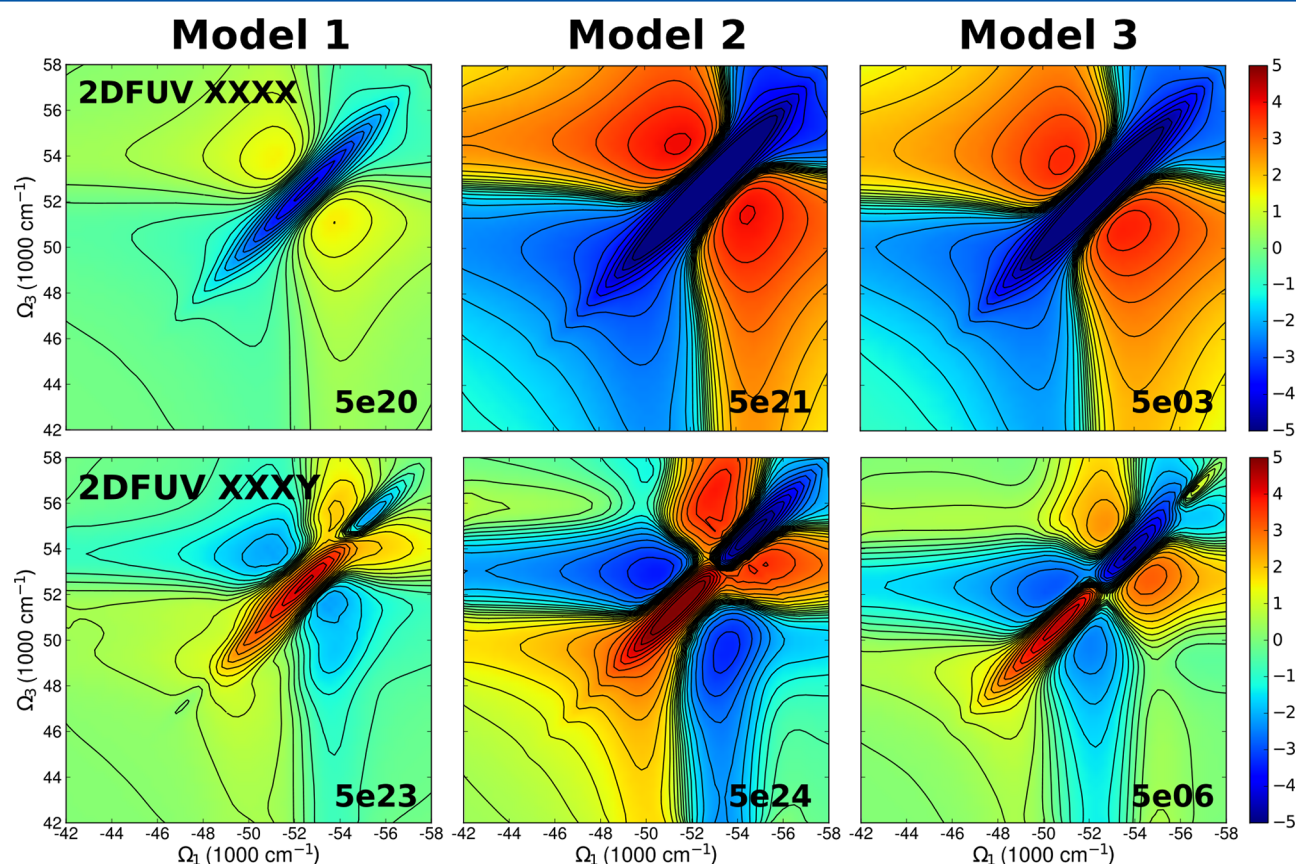


Figure 8. 2DFUV non-chiral (*xxxx*) (top) and chiral-induced (*xxxy*) (bottom) spectra of amyloid fibril models used in our study.

comparison, we have recalculated the 2DFUV signals of Model 1 with the contributions from the backbone and side chains. These are shown in revised Figure 8. Major features of the (*xxxx*) and (*xxxy*) spectra remain unaltered. The chirality-induced (*xxxy*) spectrum now shows a symmetric shape with two peaks along the diagonal: a peak at 52000 cm^{-1} that is characteristic of a β -sheet content structure. An additional peak appears at 56000 cm^{-1} that makes a butterfly-shape for the signal similar to Model 2 but with the 52000 cm^{-1} and 56000 cm^{-1} peaks elongated along the diagonal, respectively.

REFERENCES

- (1) Jiang, J.; Abramavicius, D.; Falvo, C.; Bulheller, B. M.; Hirst, J. D.; and Mukamel, S. (2010) Simulation of Two-Dimensional Ultraviolet Spectroscopy of Amyloid Fibrils. *J. Phys. Chem. B* 114 (37), 12150–12156.

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