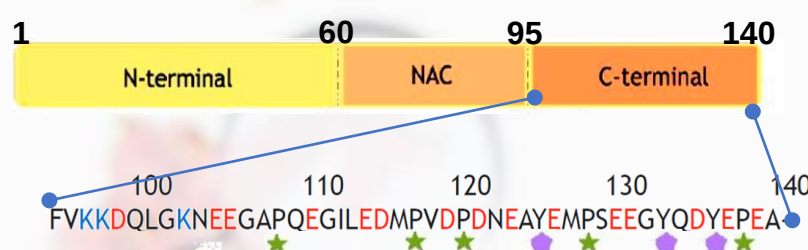
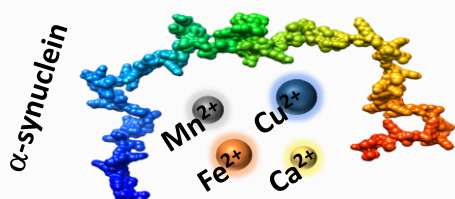


Monitoring the Interaction of α -Synuclein with Calcium Ions through Exclusively Heteronuclear Nuclear Magnetic Resonance Experiments

M. Schiavina, L. Pontoriero, M.G. Murrall, R. Pierattelli, I.C. Felli

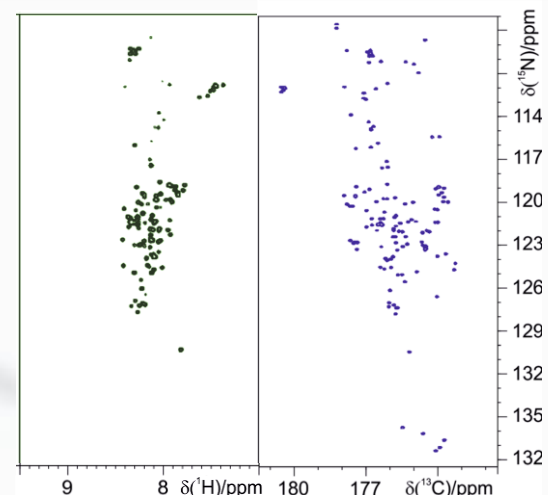


- Neurodegenerative diseases insurgence
- Binds divalent metal ions
- Senses Ca^{2+} concentration jumps

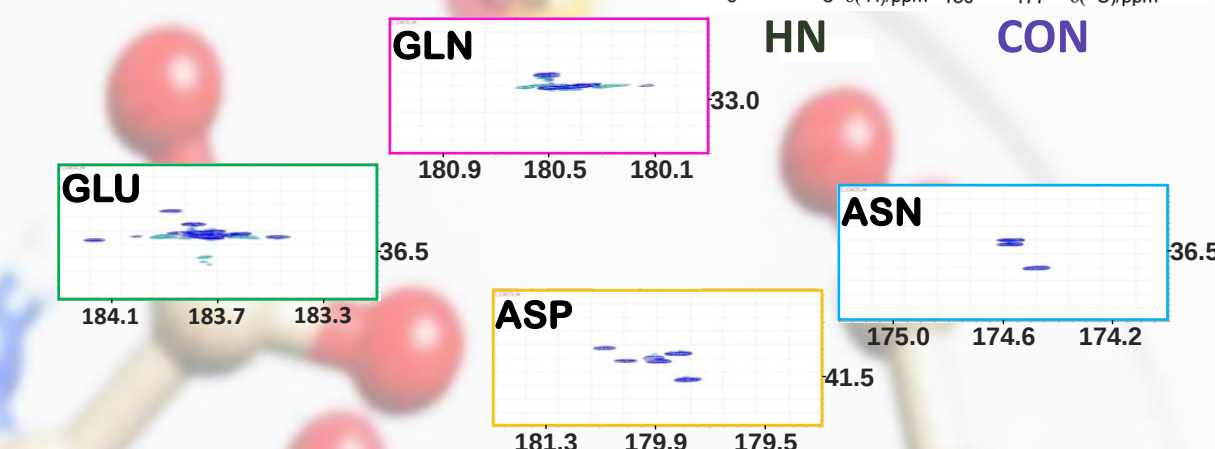
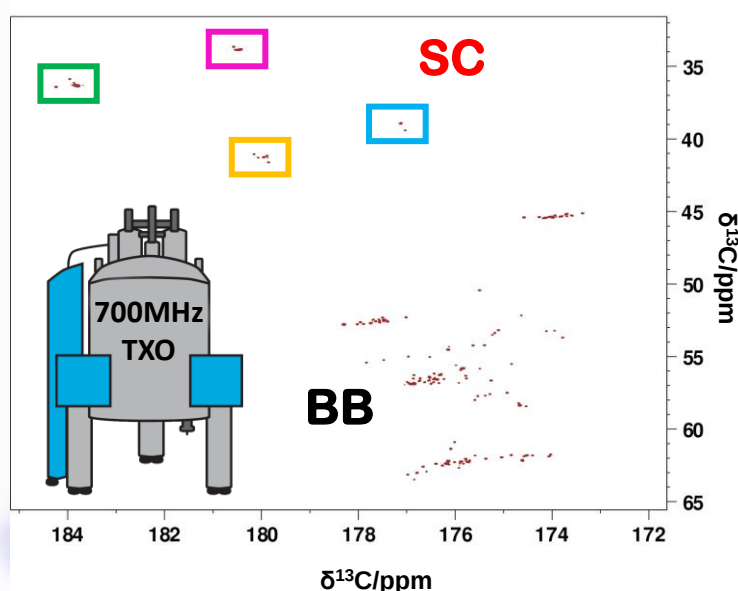


Ca^{2+}
titration

Physiological conditions:
 $T = 310 \text{ K}$ $\text{pH} = 7.4$

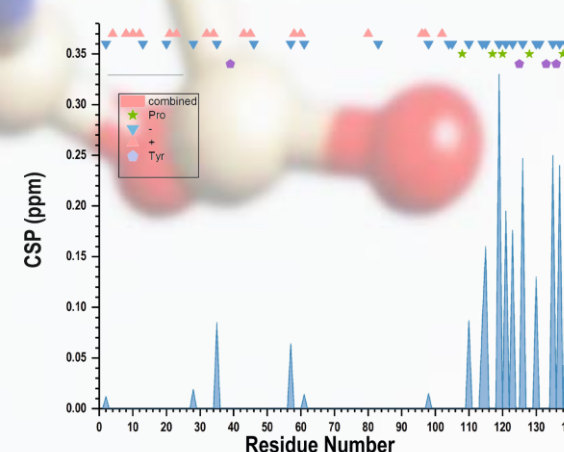
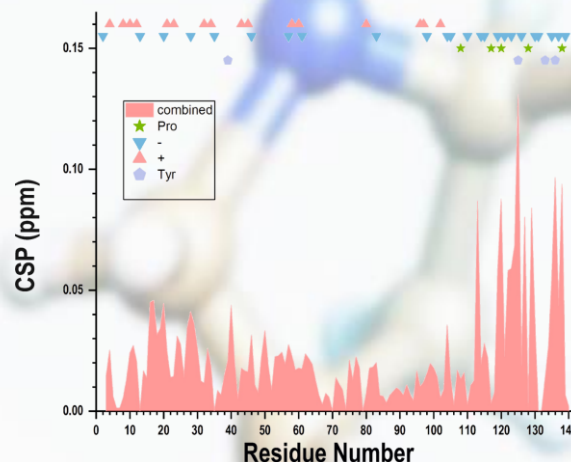
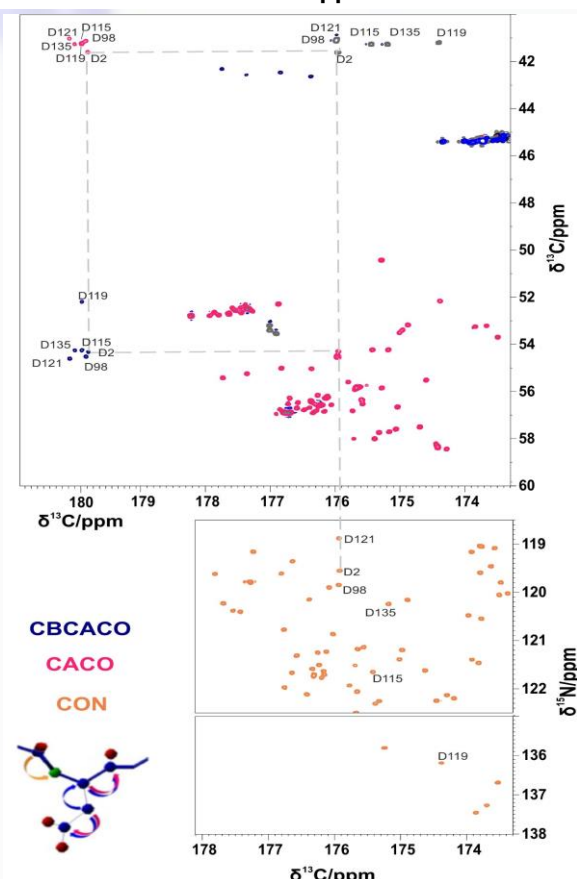
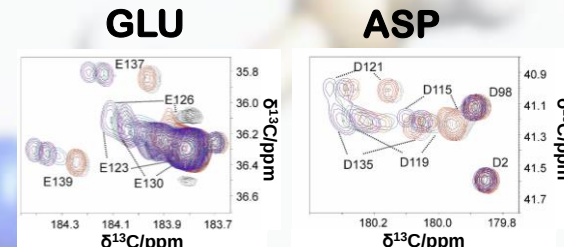
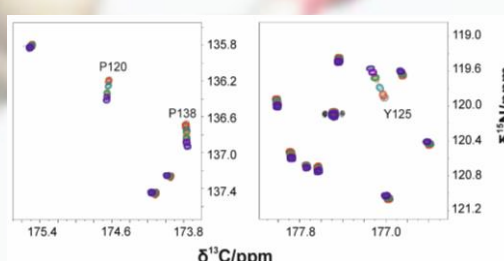


Expand ^{13}C toolbox to monitor side chains

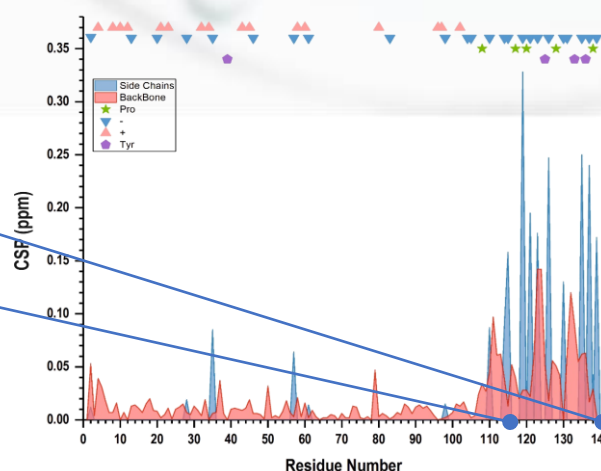


Backbone

Side Chains



Localized effect in C-terminal region

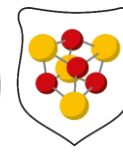


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