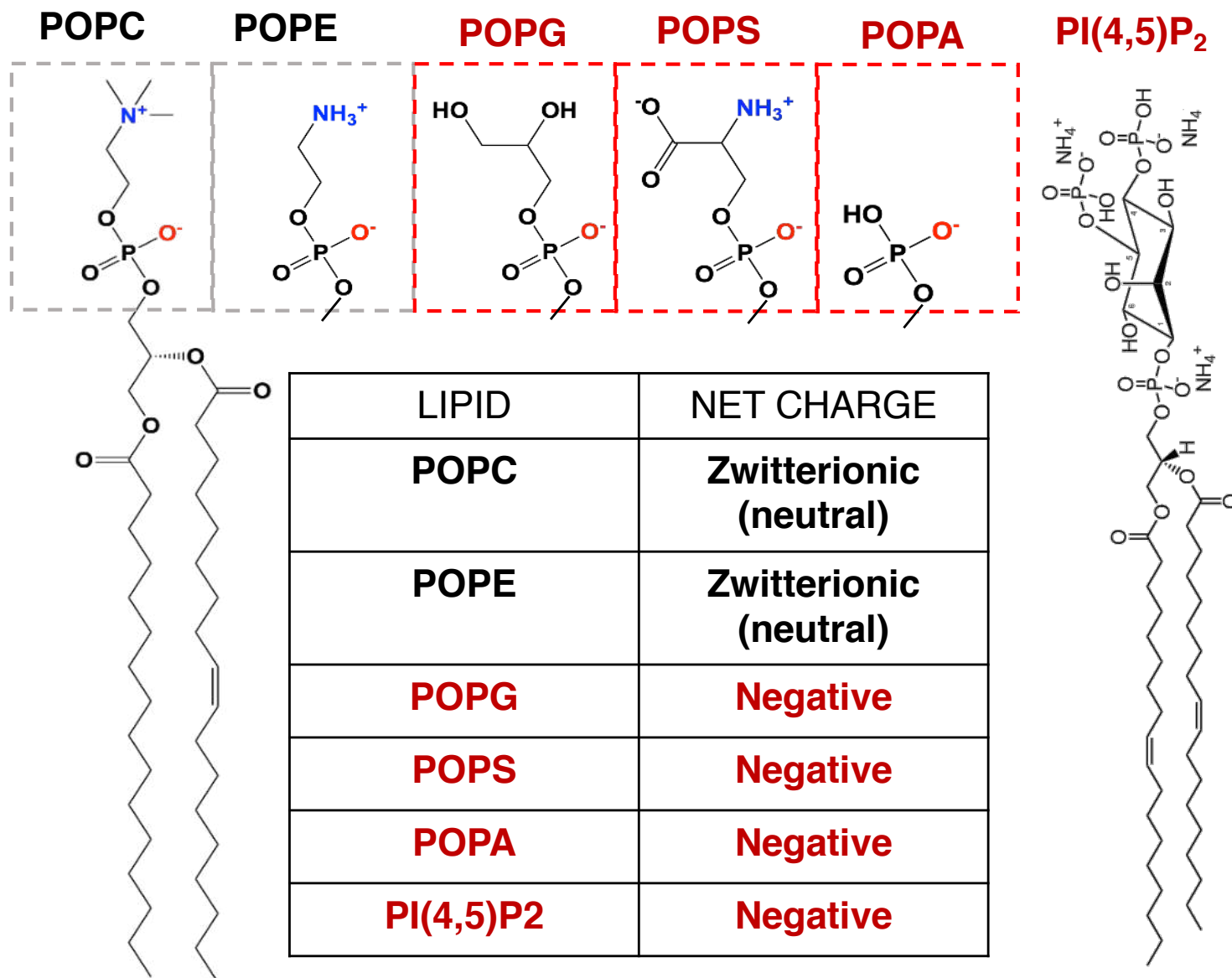
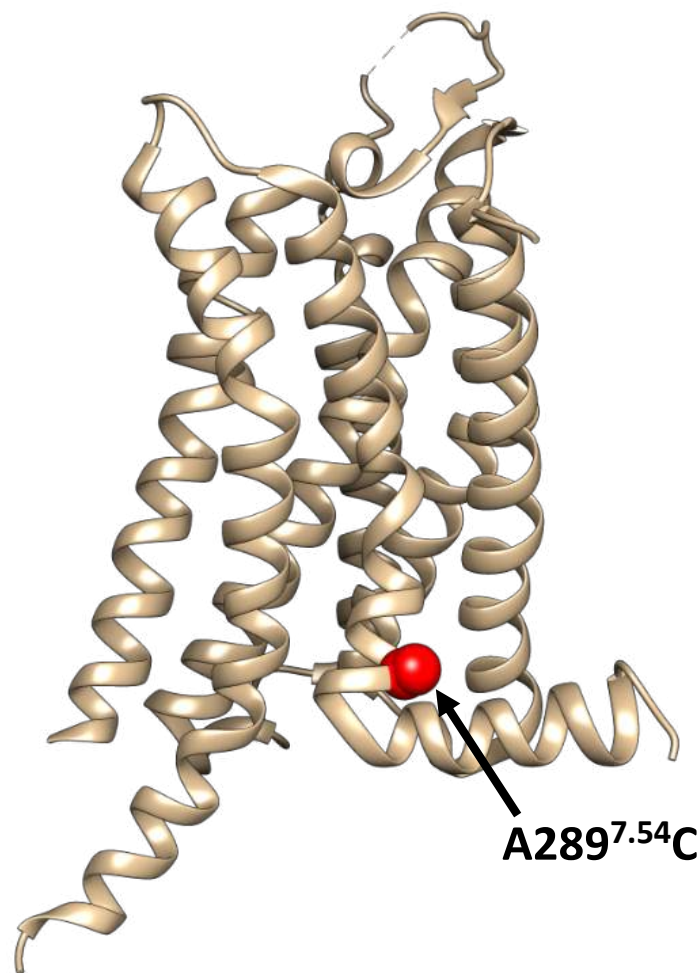


Structural Insights into Activation of a Human GPCR by Membrane Phospholipids

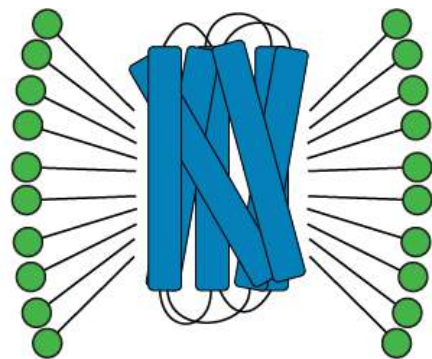
Dr. Matthew Eddy
 University of Florida



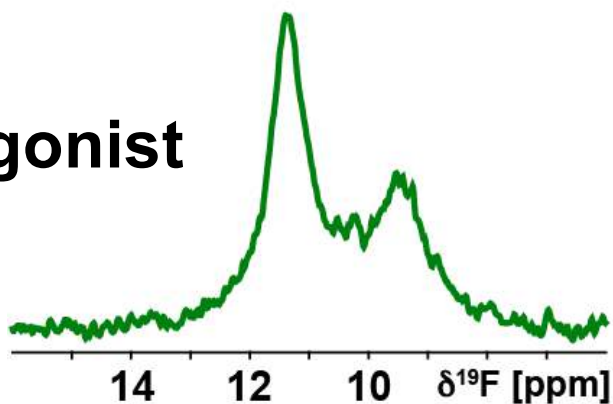
Human A_{2A} Adenosine Receptor (A_{2A}AR) with ¹⁹F-NMR Probe in Helix VII



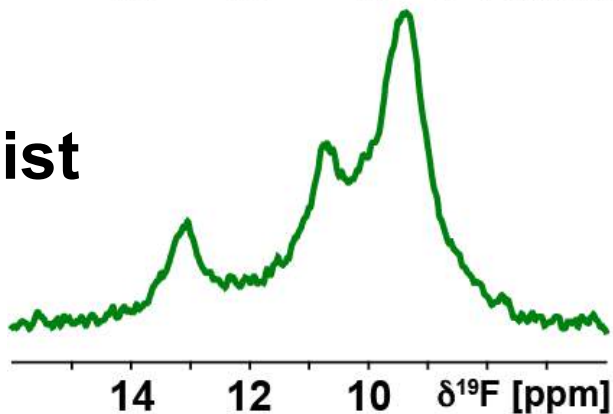
DDM/CHS
micelles



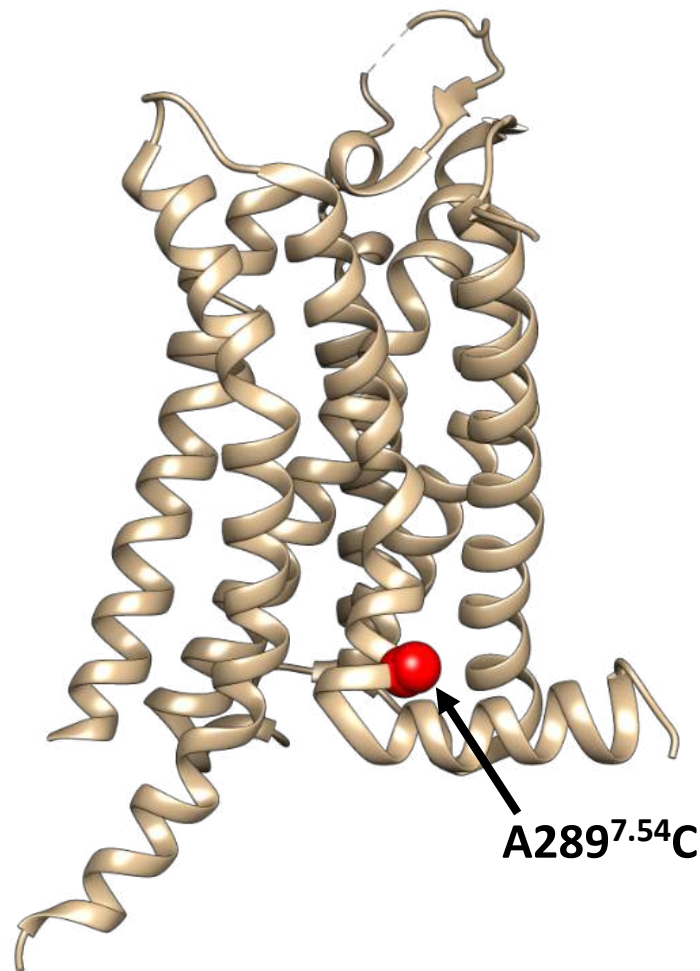
+ Antagonist



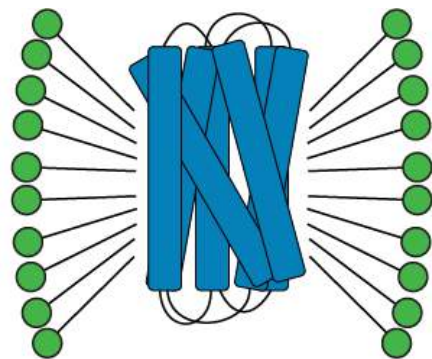
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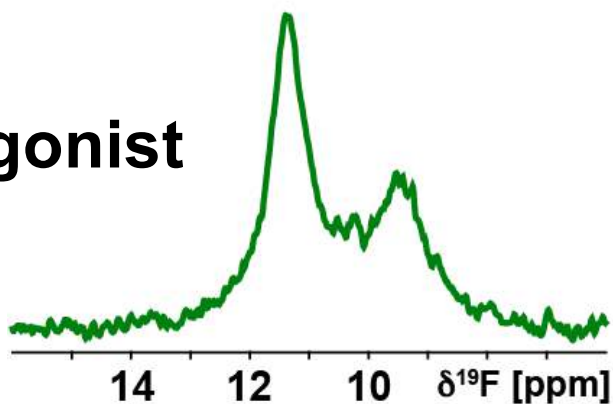
Human $\text{A}_{2\text{A}}$ Adenosine Receptor ($\text{A}_{2\text{A}}\text{AR}$)
with ^{19}F -NMR Probe in Helix VII



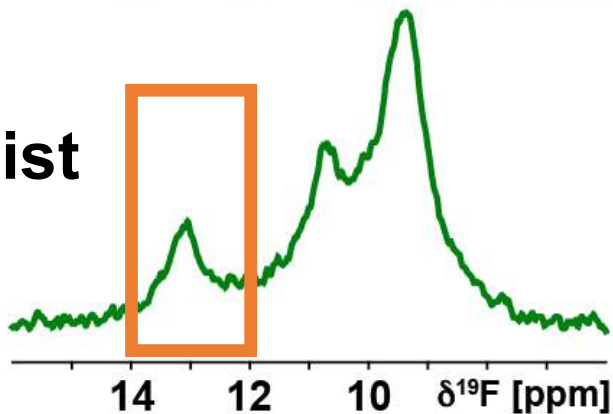
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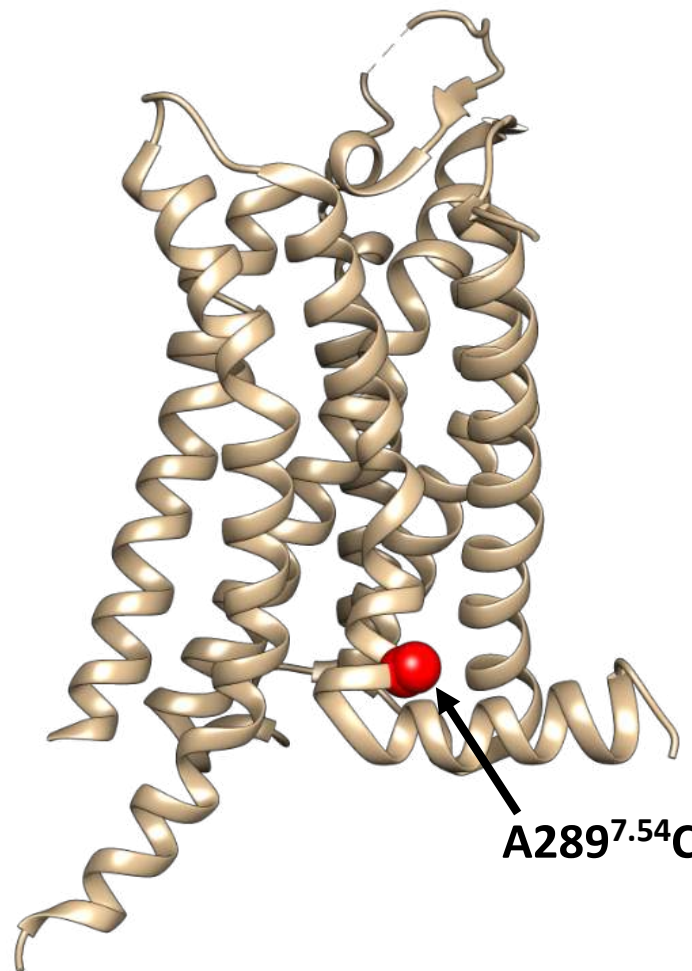
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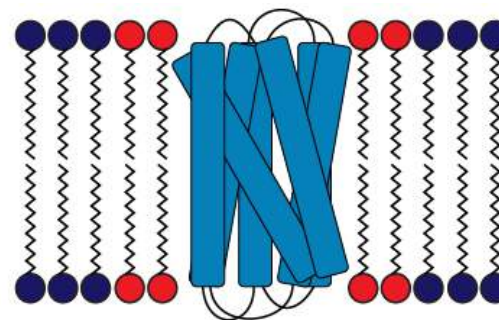
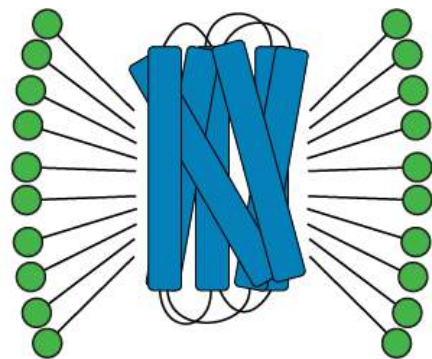
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Human $\text{A}_{2\text{A}}$ Adenosine Receptor ($\text{A}_{2\text{A}}\text{AR}$)
with ^{19}F -NMR Probe in Helix VII

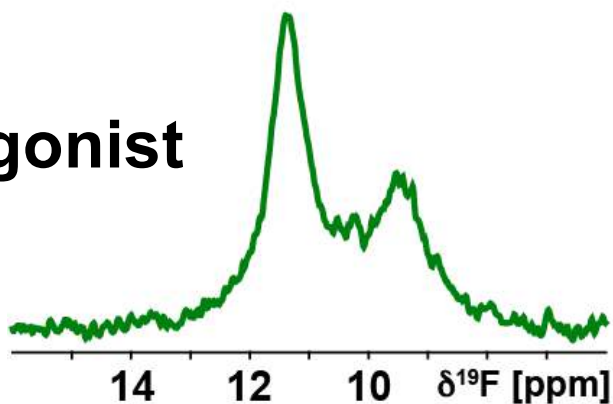


DDM/CHS
micelles

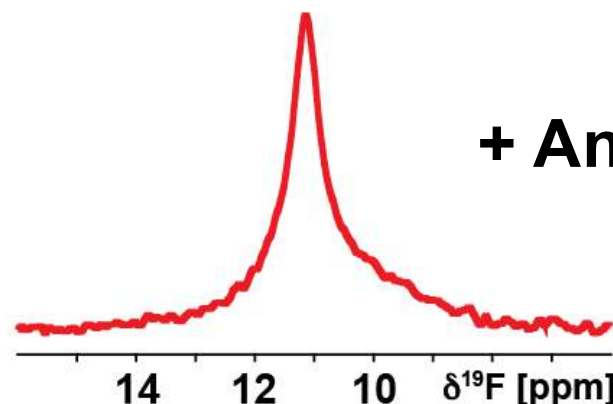


70% POPC
30% POPS

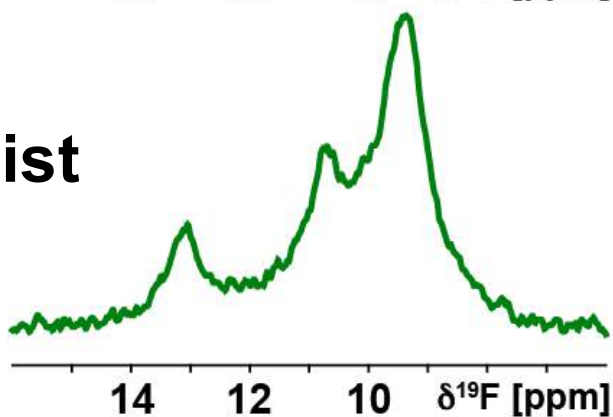
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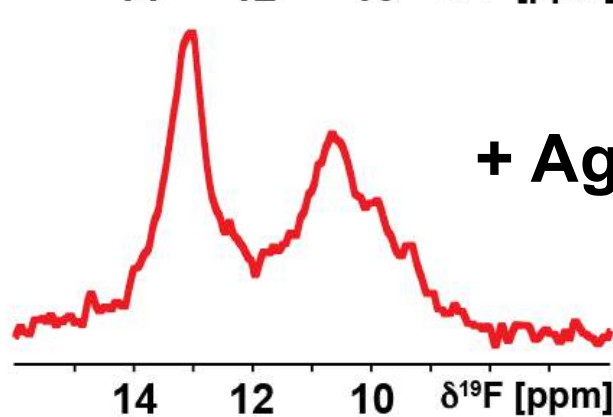
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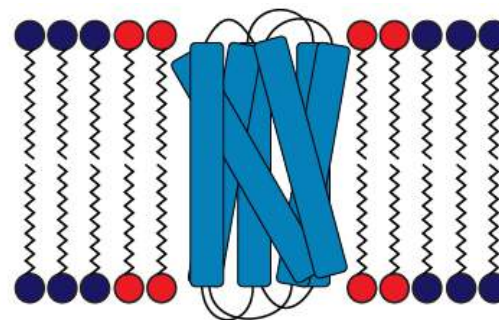
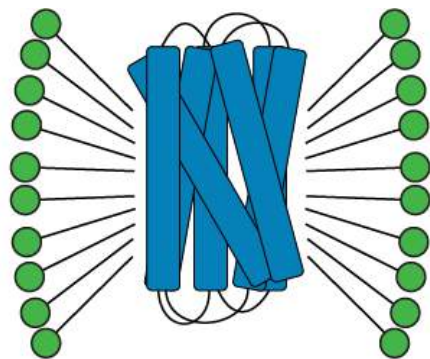
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+ Agonist

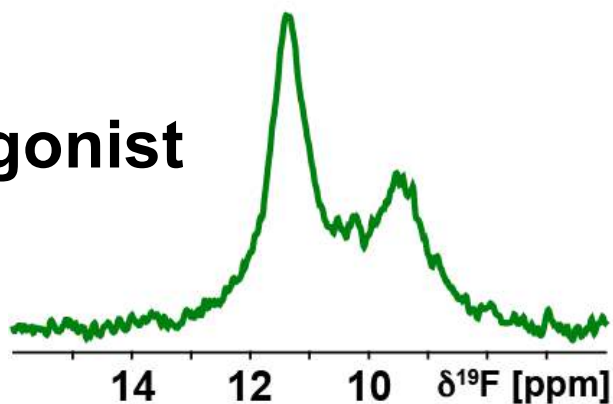


DDM/CHS
micelles

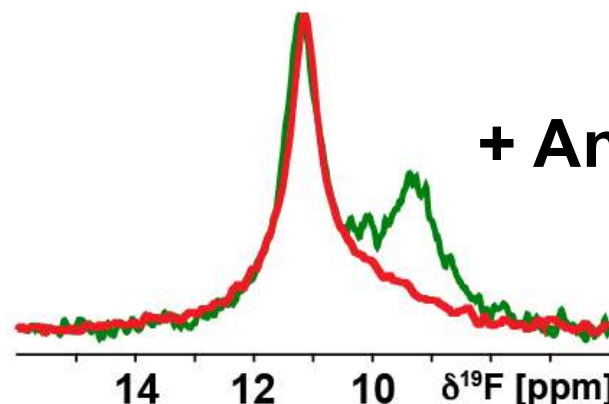


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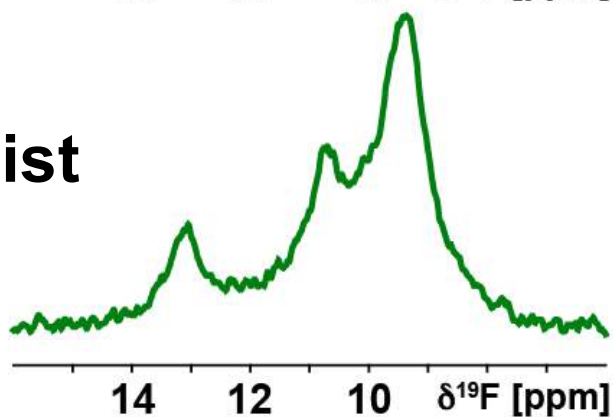
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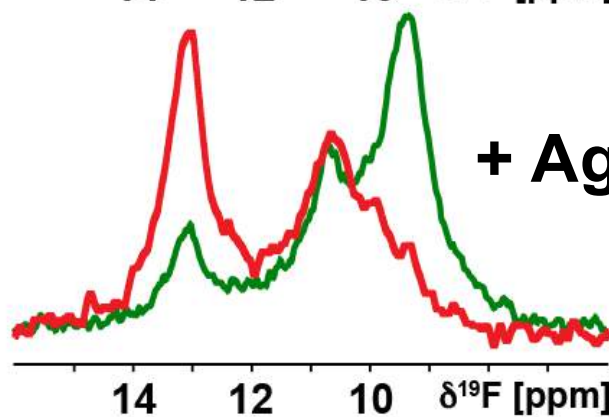
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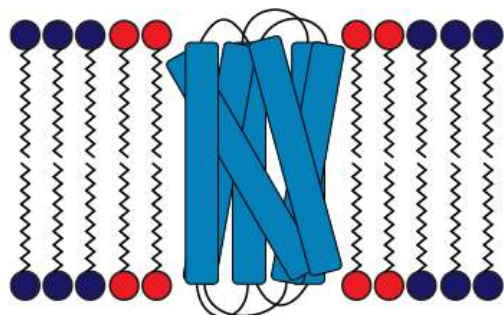
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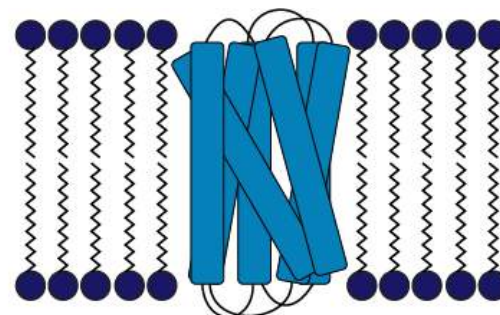
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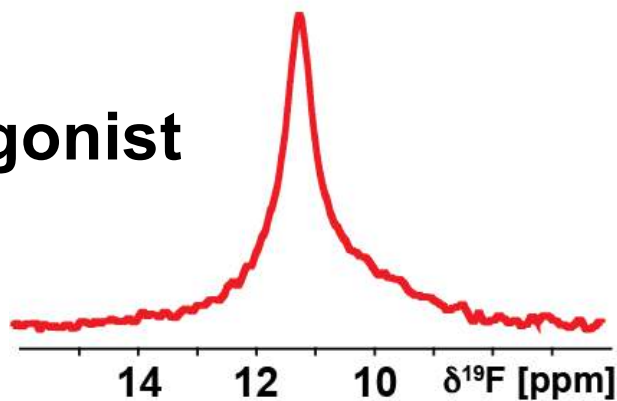
70% POPC
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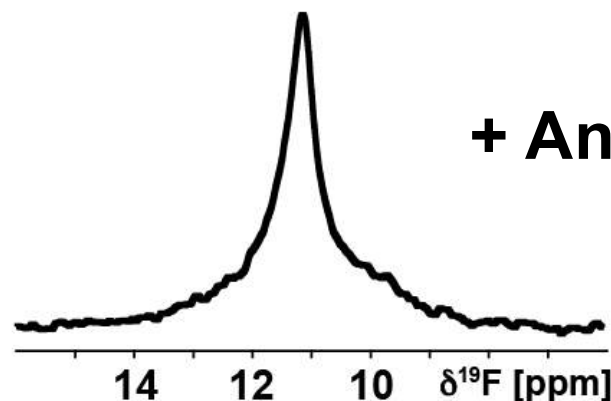
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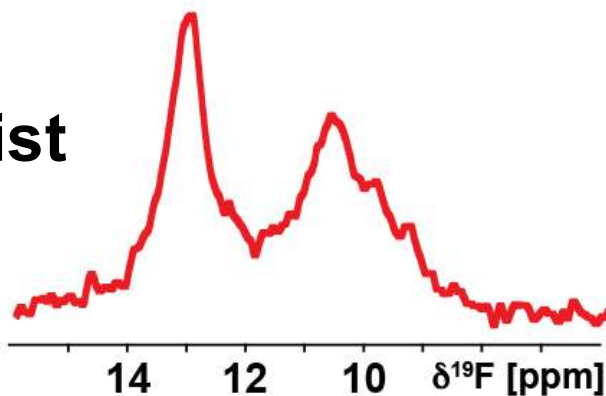
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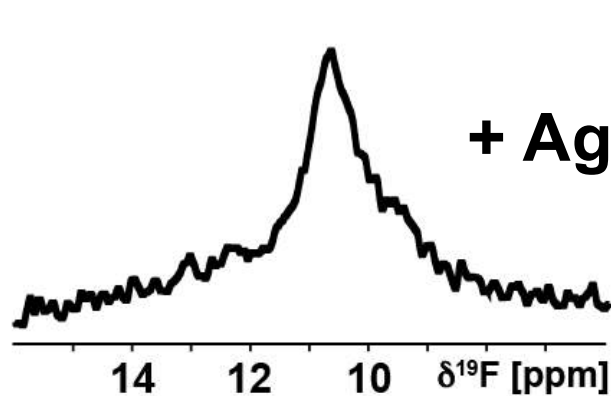
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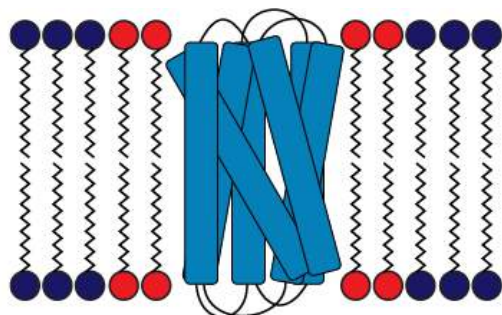
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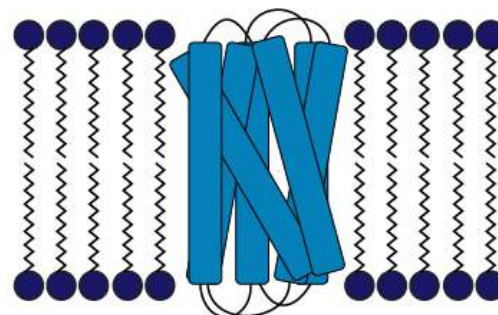
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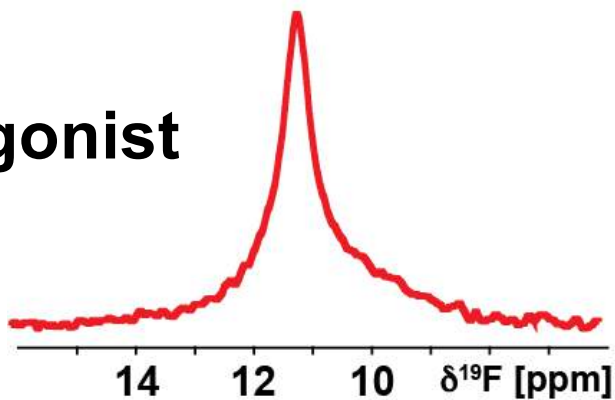
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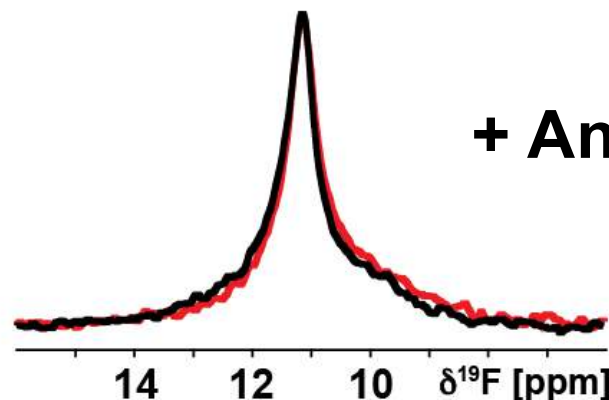
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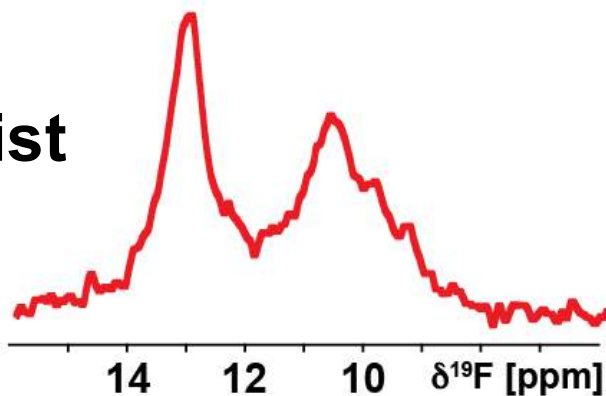
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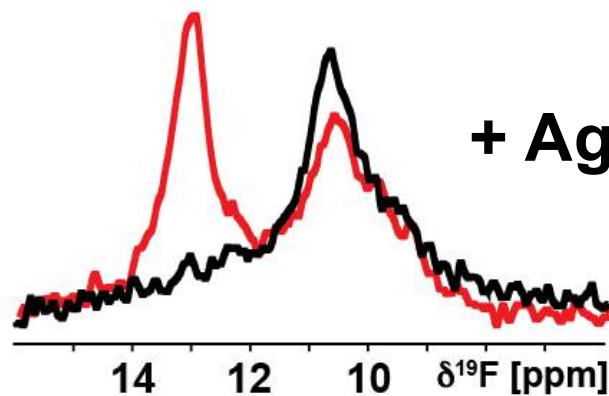
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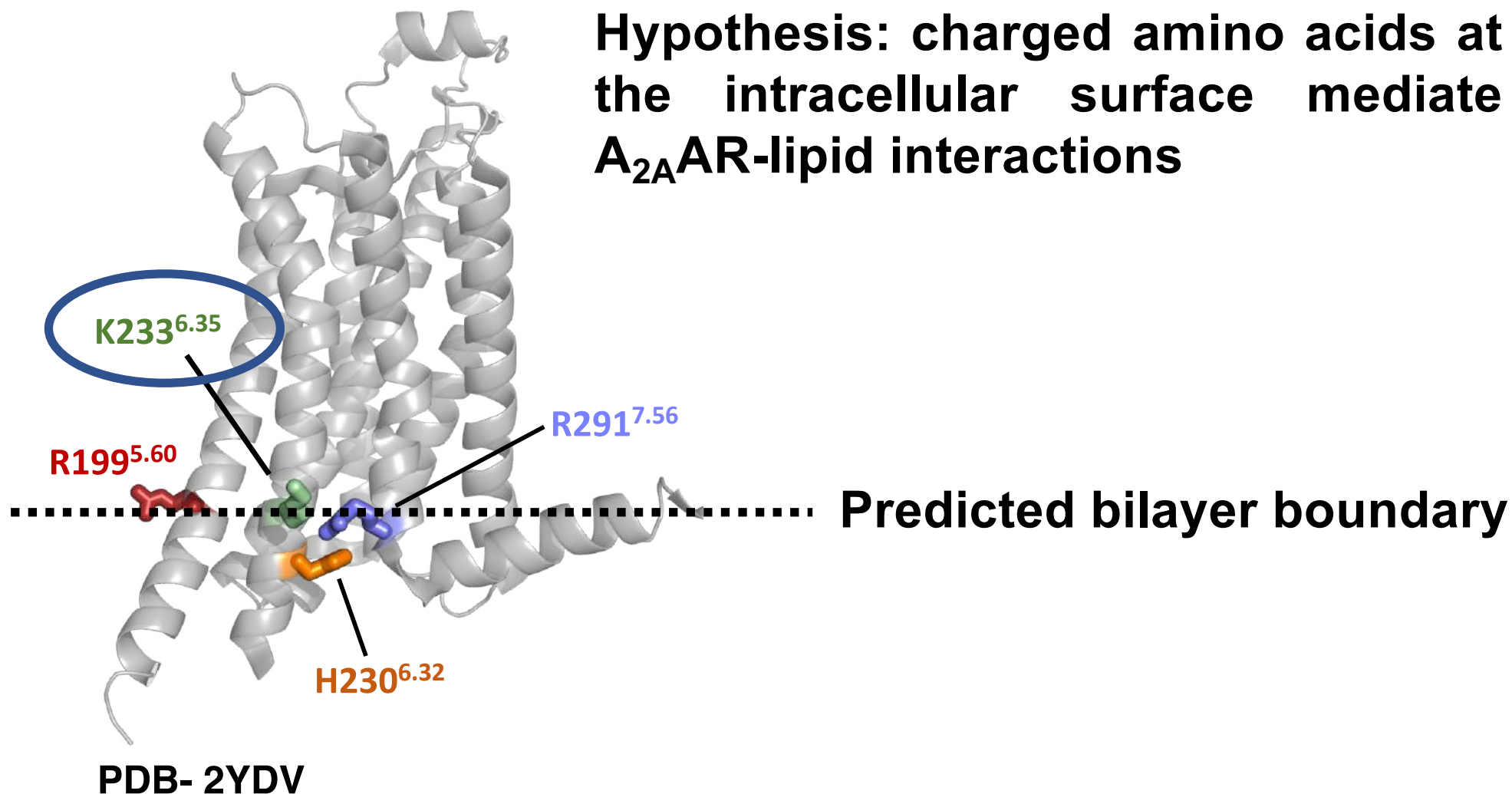
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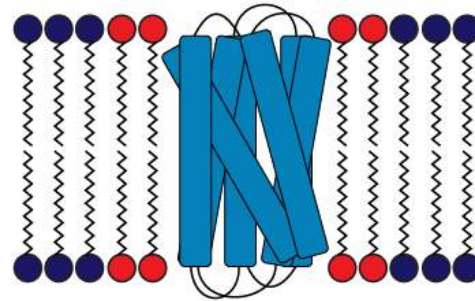
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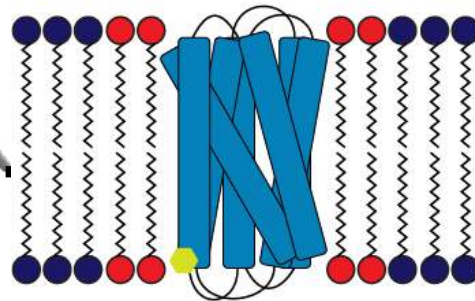
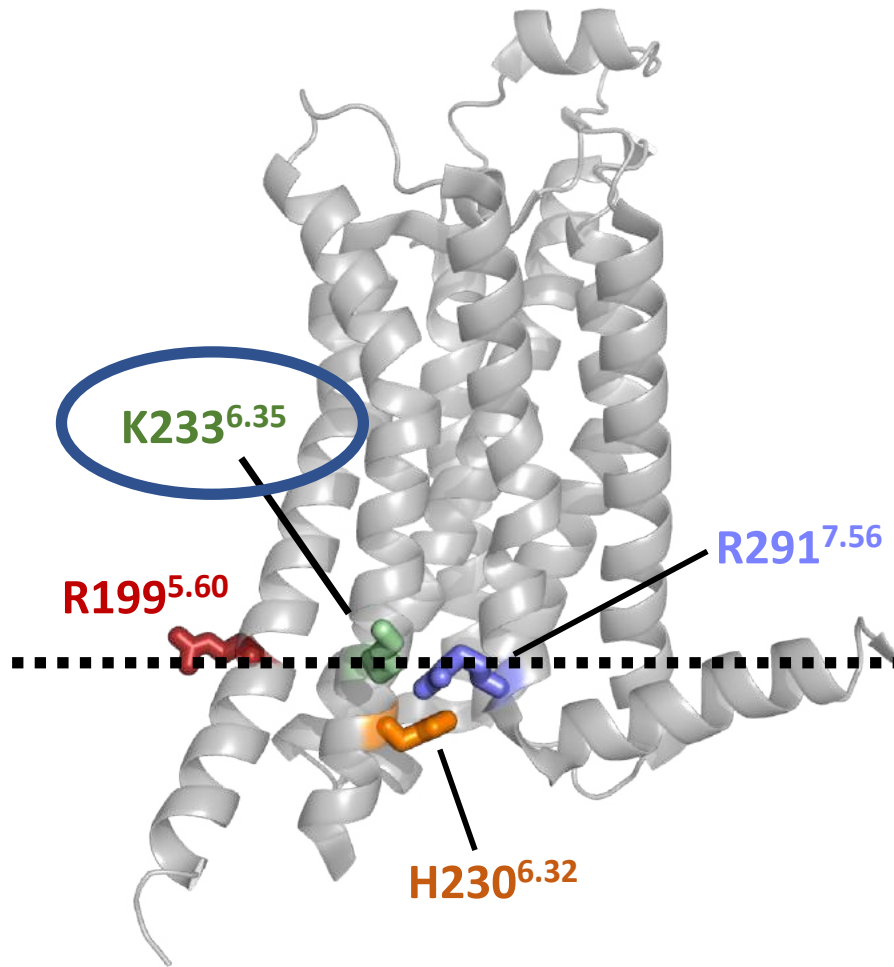
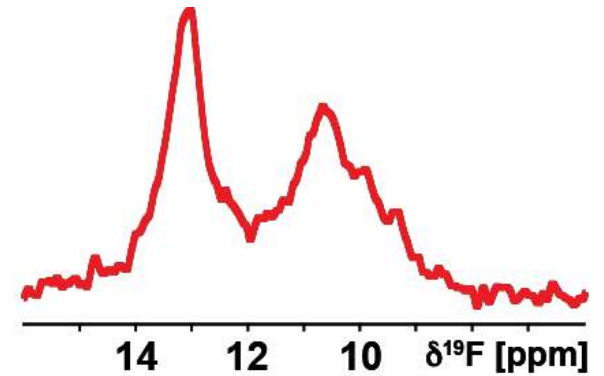
Hypothesis: charged amino acids at the intracellular surface mediate A_{2A}AR-lipid interactions



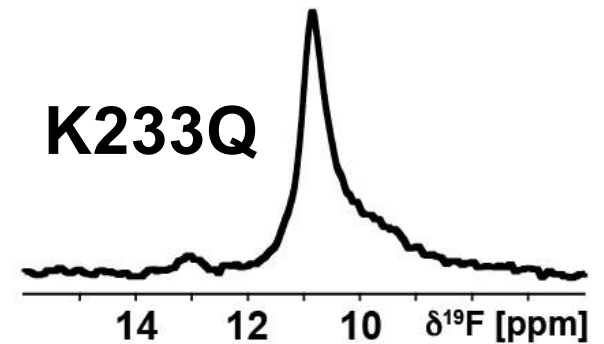
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K233Q

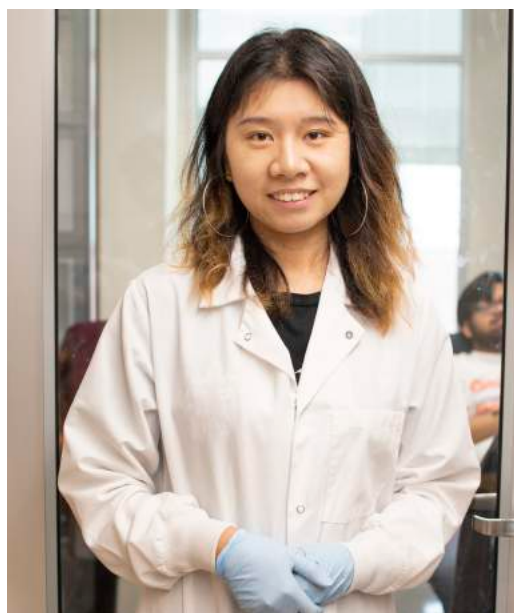


PDB- 2YDV

Acknowledgements



Naveen Thakur



Beining (Kim) Jin



Arka Ray

