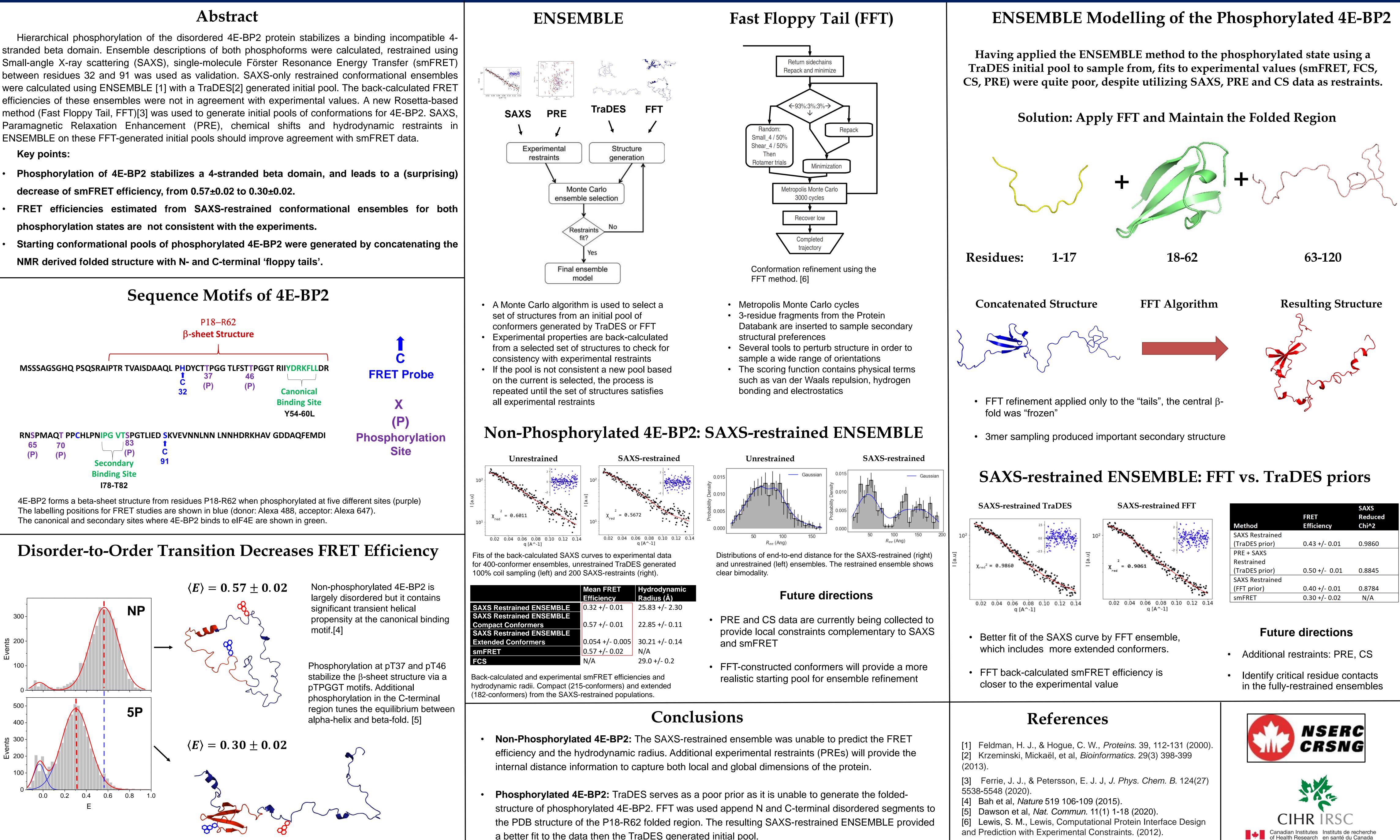
ENSEMBLE MODELLING THE DISORDER-TO-ORDER TRANSITION OF 4E-BP2

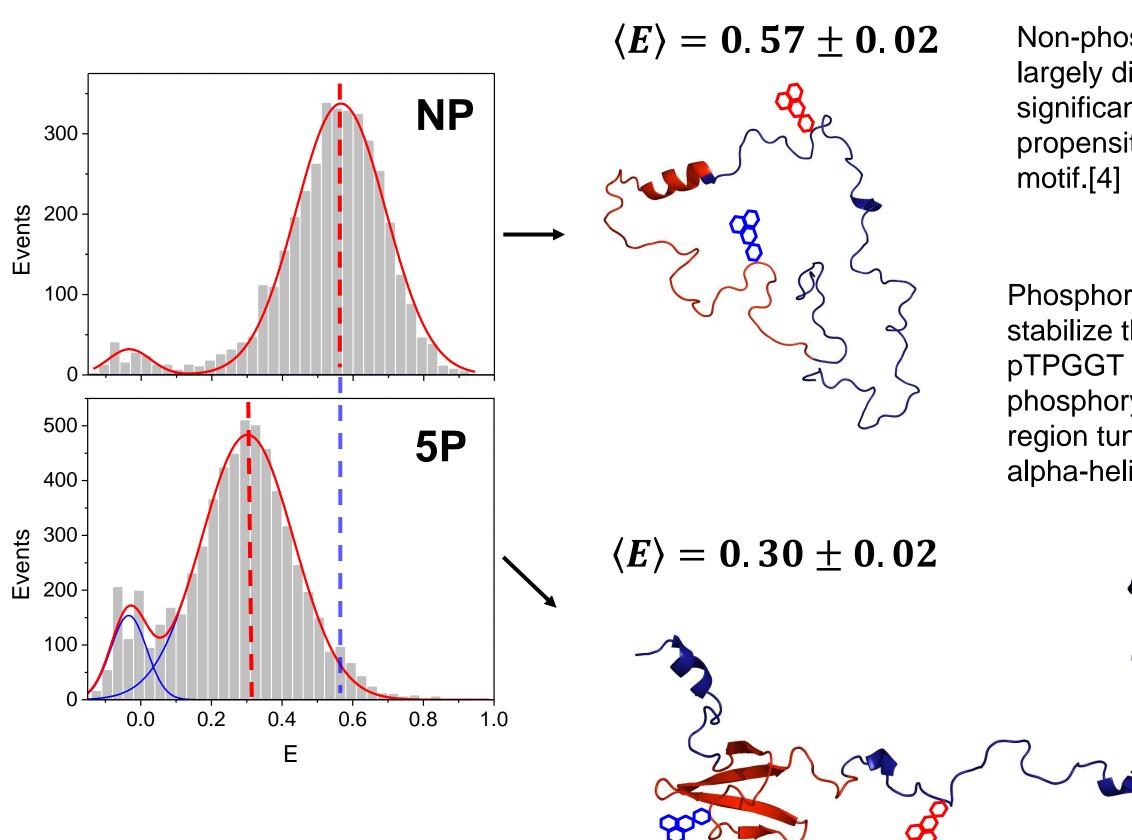
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Gradinaru Lab Single-Molecule Biophysics

- decrease of smFRET efficiency, from 0.57±0.02 to 0.30±0.02.
- NMR derived folded structure with N- and C-terminal 'floppy tails'.





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- a better fit to the data then the TraDES generated initial pool.



Method	FRET Efficiency	SAXS Reduced Chi^2
SAXS Restrained		
(TraDES prior)	0.43 +/- 0.01	0.9860
PRE + SAXS		
Restrained		
(TraDES prior)	0.50 +/- 0.01	0.8845
SAXS Restrained		
(FFT prior)	0.40 +/- 0.01	0.8784
smFRET	0.30 +/- 0.02	N/A
	-	-