



MicroScale Thermophoresis Experiments (2 labs)
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MicroScale Thermophoresis Experiments (2 labs)

Two systems tested:

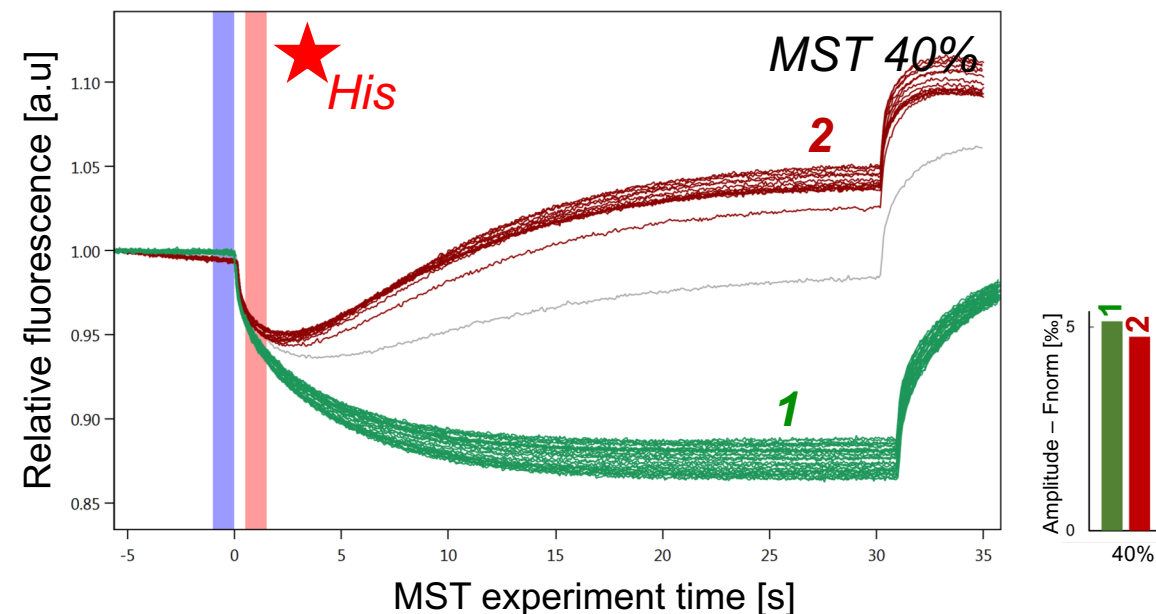
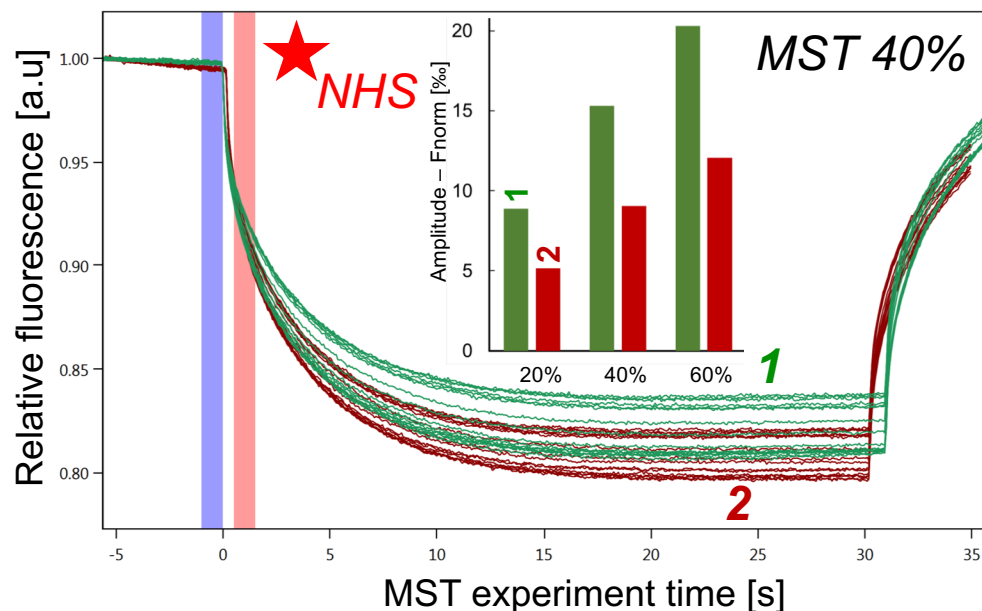
★ Protein/peptide interaction – low micromolar affinity

Protein/★ DNA interaction – nanomolar affinity

★ Protein labeling efficiency - **DOL**:

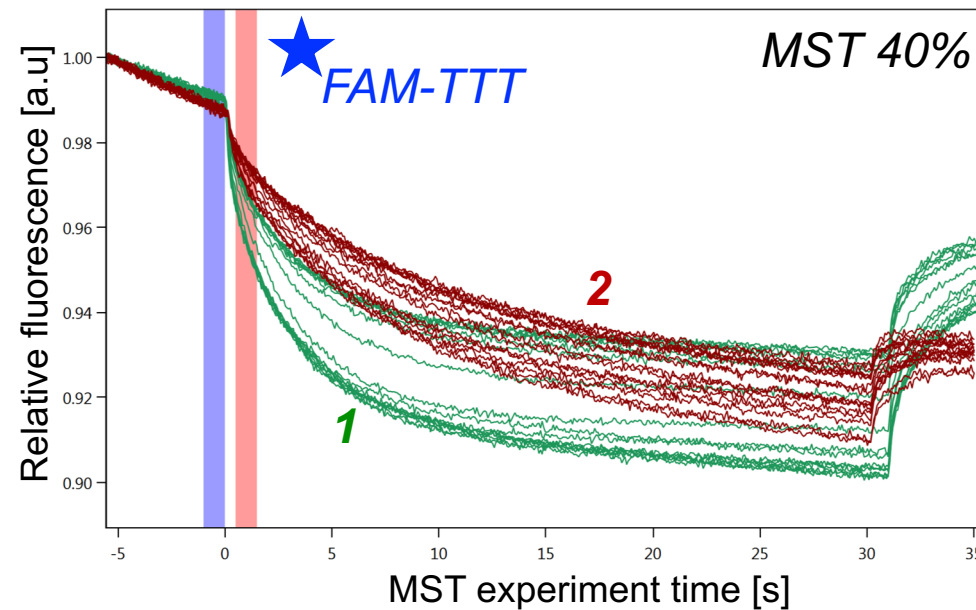
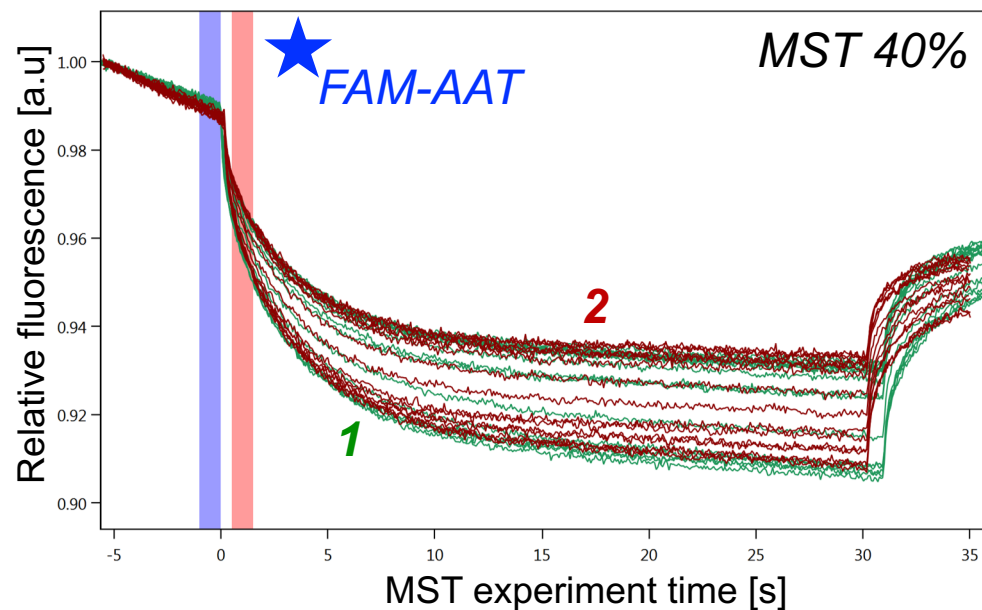
Institution	DOL [%] – NHS chemistry	DOL [%] – MALEIMIDE chemistry
1	96	23
2	78	38

MST Experiments. ★ Protein/peptide interaction (2 labs)



Institution	K_D [μ M] at 40% MST power – (K_D) ITC values		
	Peptide 1		Peptide 2
	NHS labeling	His labeling	NHS labeling
1	4.7 (32)	1.4 (32)	0.84 (4)
2	5.2 (32)	2.6 (32)	0.68 (4)

MST Experiments. Protein/★ DNA interaction (2 labs)



Institution	Amplitudes at 40% MST power		K_D [nM] at 40% MST power – (K_D) ITC values	
	<i>AAT, DNA 1</i>	<i>TTT, DNA 2</i>	<i>AAT, DNA 1</i>	<i>TTT, DNA 2</i>
1	10.3	12.1	20 (40)	41.2 (450)
2	8.5	5.6	2 (40)	25.5 (450)