

Accelerated calcium phosphate mineralization by peptides with adjacent oppositely charged residues

*Mustafa GUNGORMUS**, *Mahmut Sertac OZDOGAN*, *Sinan Yasin ERTEM*, *Fatih*

TULUMBACI, *Halil KARA*, *Metin ORHAN*

Supporting Information

Number of pages: 4

Number of tables: 1

Number of figures: 2

Table S1-Sn: Comparison of the structural content estimation by the BeStSel and CAPTIO and the manual helical content calculation (α : % helical content, β : % beta content, RC: % random coil content)

		H₂O			CaCl₂		
		α	β	RC	α	β	RC
ADP5	BeStSel	0.0	41.5	58.3	0.0	38.7	61.3
	CAPTIO	0.1	34.4	65.5	0.1	35.6	64.3
	Manual	0.1	-	-	0.6	-	-
MPP1	BeStSel	4.0	33.9	62.1	5.8	30.8	63.4
	CAPTIO	4.7	37.3	58.1	6.4	33.2	60.4
	Manual	5.3	-	-	5.8	-	-
MPP2	BeStSel	2.1	15.4	82.4	2.4	19.6	78.0
	CAPTIO	7.2	13.7	79.1	5.9	18.9	75.2
	Manual	2.5	-	-	2.9	-	-
MPP3	BeStSel	12.6	39.3	48.1	5.6	24.4	70.1
	CAPTIO	11.4	44.1	45.5	6.2	19.7	74.1
	Manual	10.4	-	-	8.0	-	-
MPP4	BeStSel	5.9	23.9	70.2	9.9	20.6	69.5
	CAPTIO	3.2	18.7	78.1	5.9	23.9	70.2
	Manual	5.2	-	-	6.4	-	-

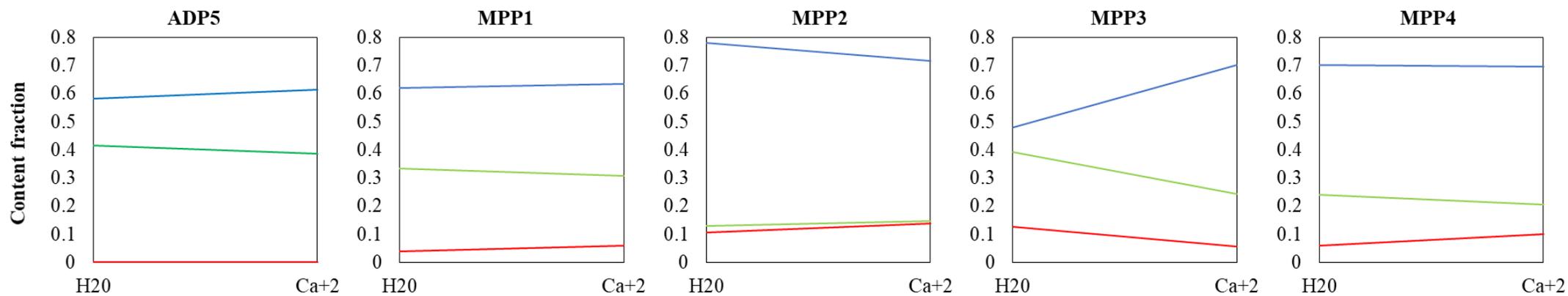


Figure S1-Sn: Effect of CaCl₂ on the structural content fractions of the peptides (red line: α content, green line: β content, blue line: random content)

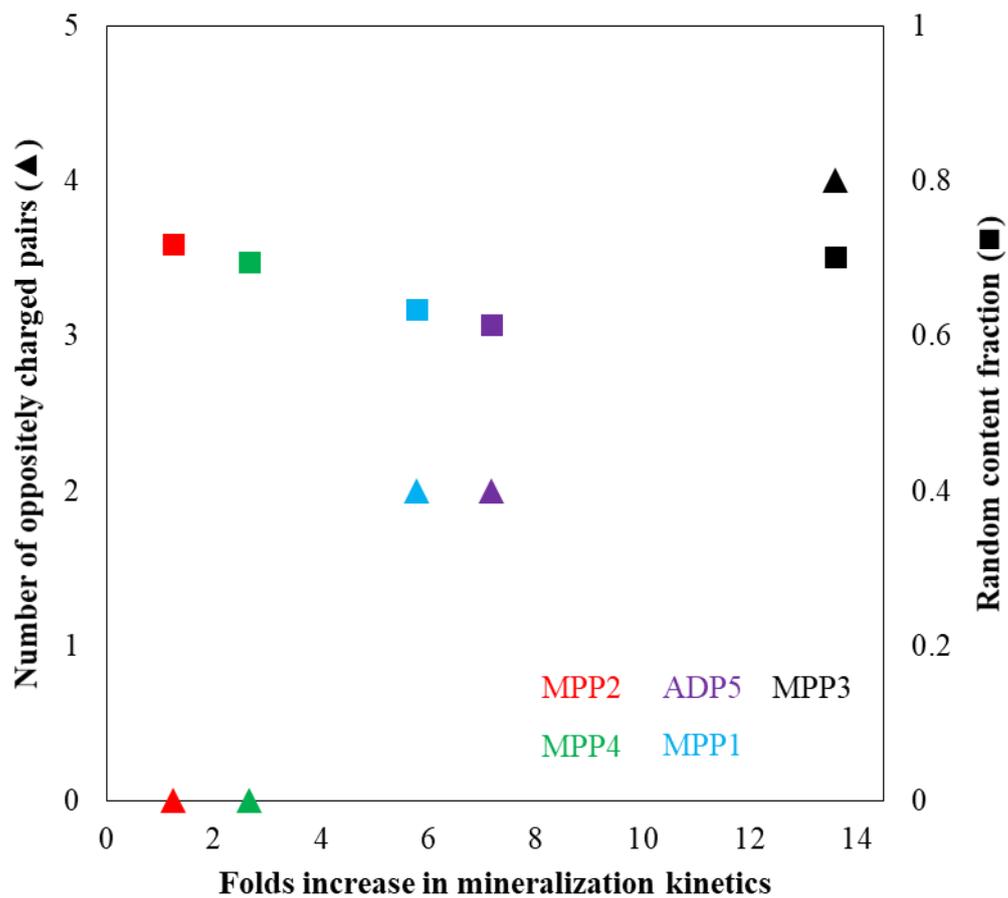


Figure S2-Sn: Comparison of the effect of oppositely charged pairs and structural instability on mineralization kinetics