



*Supplementary materials*

*Article*

# Identification of a Steric Zipper Motif in the Amyloidogenic Core of Human Cystatin C and Its Use for the Design of Self-Assembling Peptides

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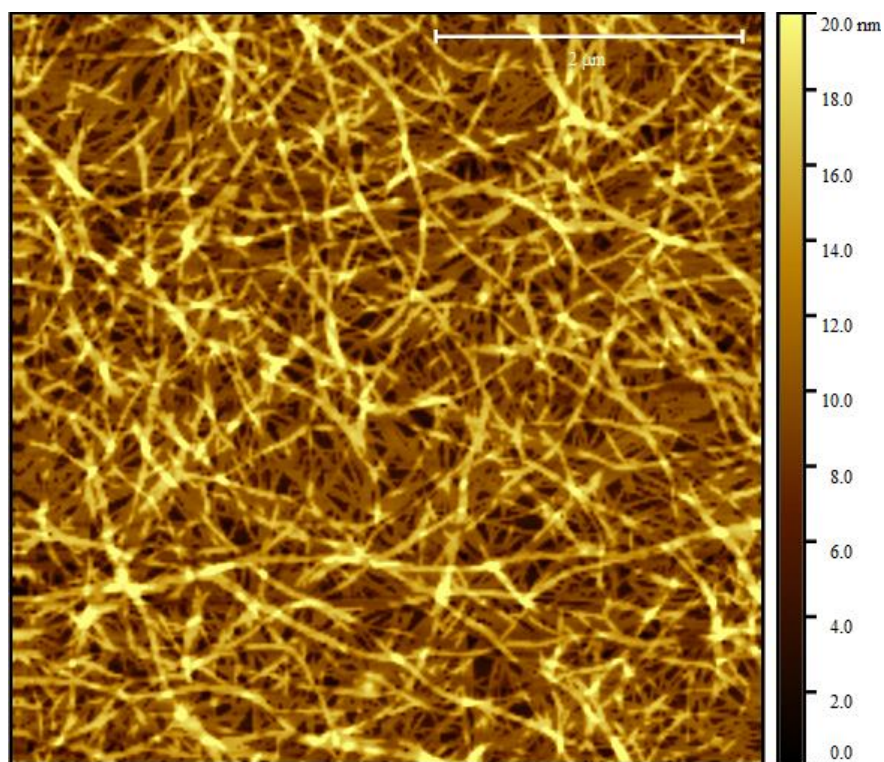
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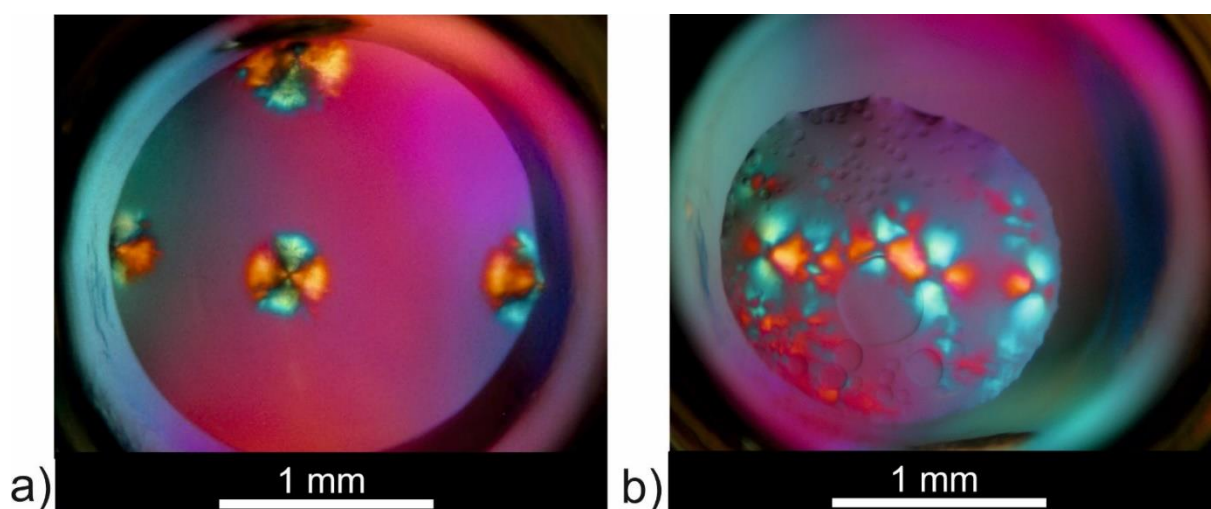
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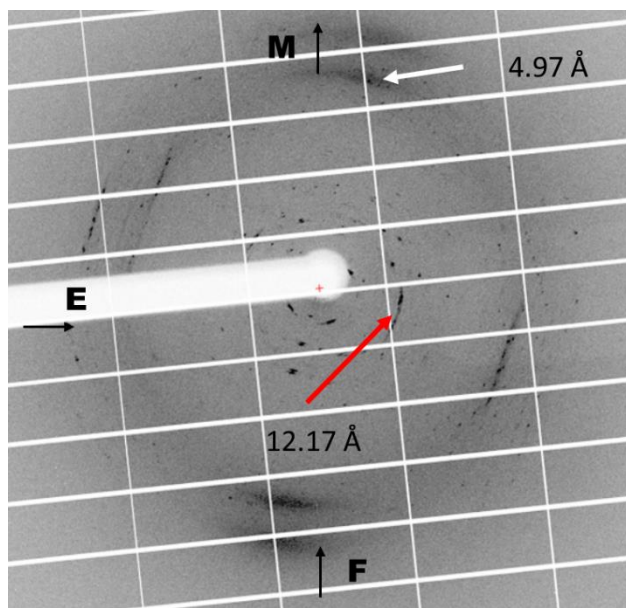


**Figure S1.** AFM image of CysZ13 after 21 days of incubation in PBS pH 7.4, concentration 1 mg/mL, 37 °C with agitation without washing before AFM analysis (see Atomic Force Microscopy, at section Materials and Methods).



**Figure S2:** The crystallization drop of peptide (a) CysZ4 and (b) CysZ9. Under most crystallization conditions, precipitation and the “Maltese cross effect” were observed. Crystallization conditions: CysZ4: 1.9 M sodium malonate pH 6.0, C = 4 mg/mL; CysZ9: 2.4 M sodium malonate pH 5.0, C = 6 mg/mL.





**Figure S3:** A diffraction image recorded for a crystal of CysZ9 with the strong meridional and equatorial reflections highlighted by white and red arrows, respectively. Crystallization conditions: 0.1 M  $\text{MgCl}_2$ , 100 mM sodium cacodylate, 15 % MPD,  $C = 4$  mg/mL. A single (cuboid) crystal was cryoprotected in mother liquor supplemented with 60 % (v/v) MPD and flash-vitrified at 100 K in a nitrogen gas stream. X-Ray diffraction data were collected using synchrotron radiation at beamline 14.1 of the BESSY II synchrotron, equipped with Dectris Pilatus 6M.