

Supporting Information for
Self-Assembly of Short Elastin-like Amphiphilic Peptides: Effects of
Temperature, Molecular Hydrophobicity and Charge Distribution

Meiwen Cao,^{*,1} Yang Shen,¹ Yu Wang,¹ Xiaoling Wang,² Dongxiang Li³

¹ *State Key Laboratory of Heavy Oil Processing and Centre for Bioengineering and Biotechnology, China University of Petroleum (East China), 66 Changjiang West Road, Qingdao Economic Development Zone, Qingdao 266555, China*

² *Qingdao Vocational and Technical College, Qingdao Economic and Technological Development Zone, Qingdao, P. R. China*

³ *Shandong Key Laboratory of Biochemical Analysis; College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, PR China*

**Corresponding authors: phone & fax: 86-532-86983455, email: mwcao@upc.edu.cn*

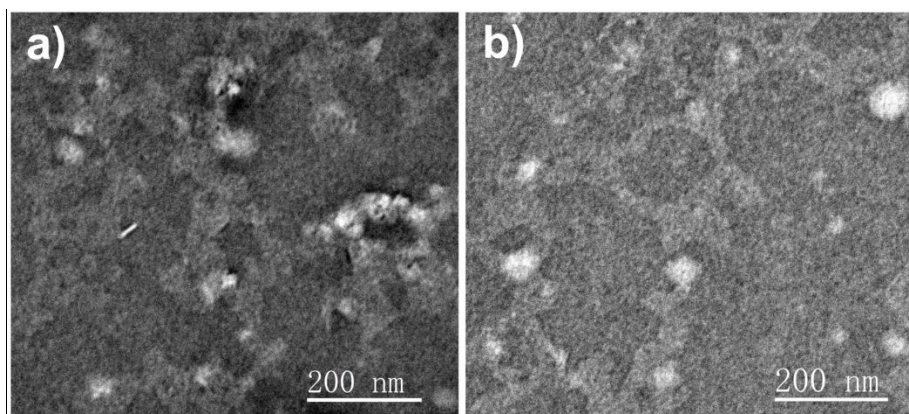


Figure S1. TEM morphologies show the aggregate structures of peptides IK-K8 (left) and IKK8 (right) at concentration of 4.0 mM and temperature of either 20 °C.

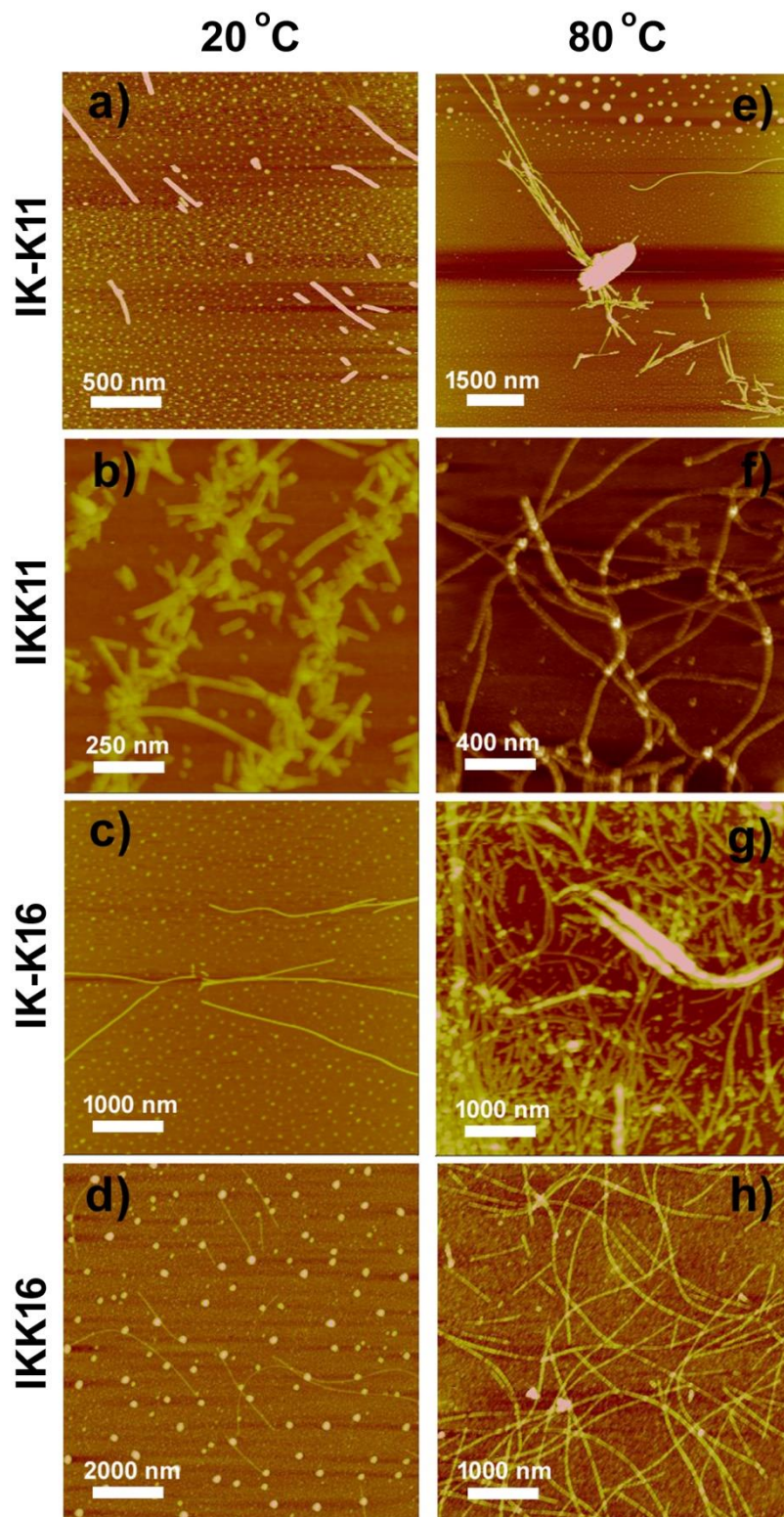


Figure S2. AFM morphologies show the self-assembled structures of different peptides at concentration of 4.0 mM and temperature of either 20 °C or 80 °C.

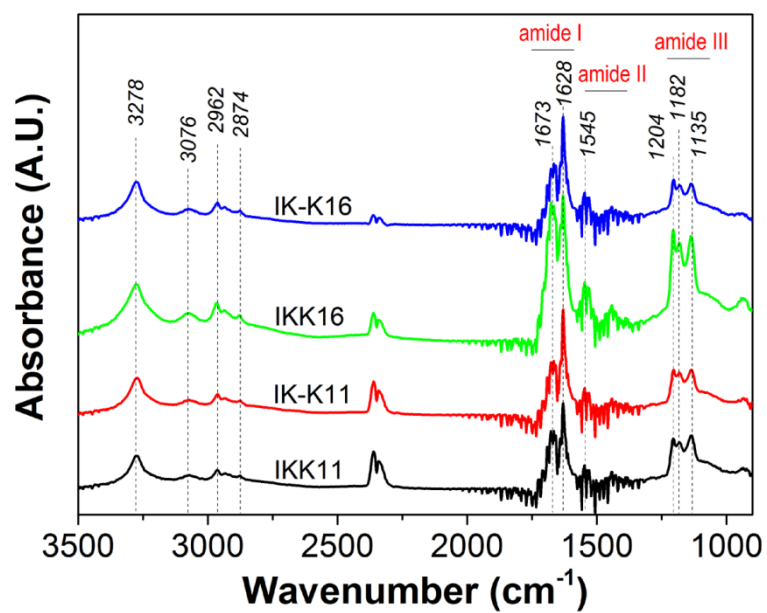


Figure S3. The FTIR spectra of different peptide solutions at concentration of 4.0 mM and temperature of 20 °C.