

Supporting Information

Staged self-assembly of PAMAM dendrimers into macroscopic aggregates with a microribbon structure similar to that of amelogenin

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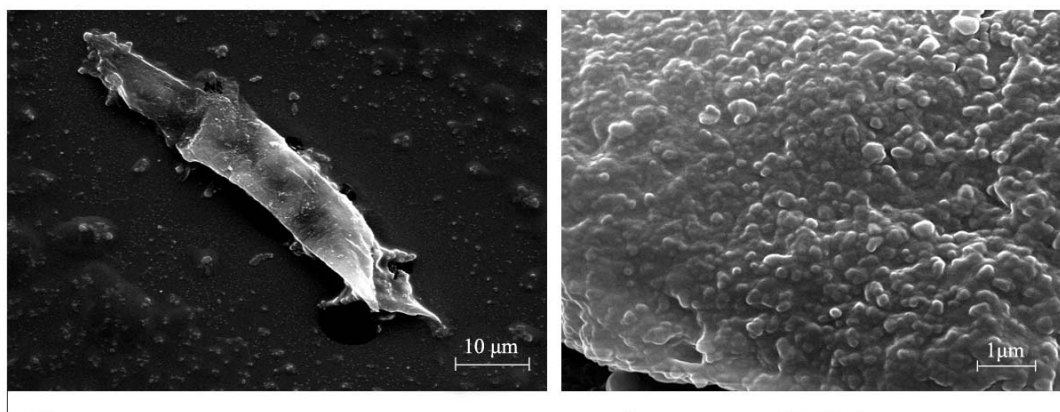


Figure S1. Surface of G4.0-COOH PAMAM microfiber.

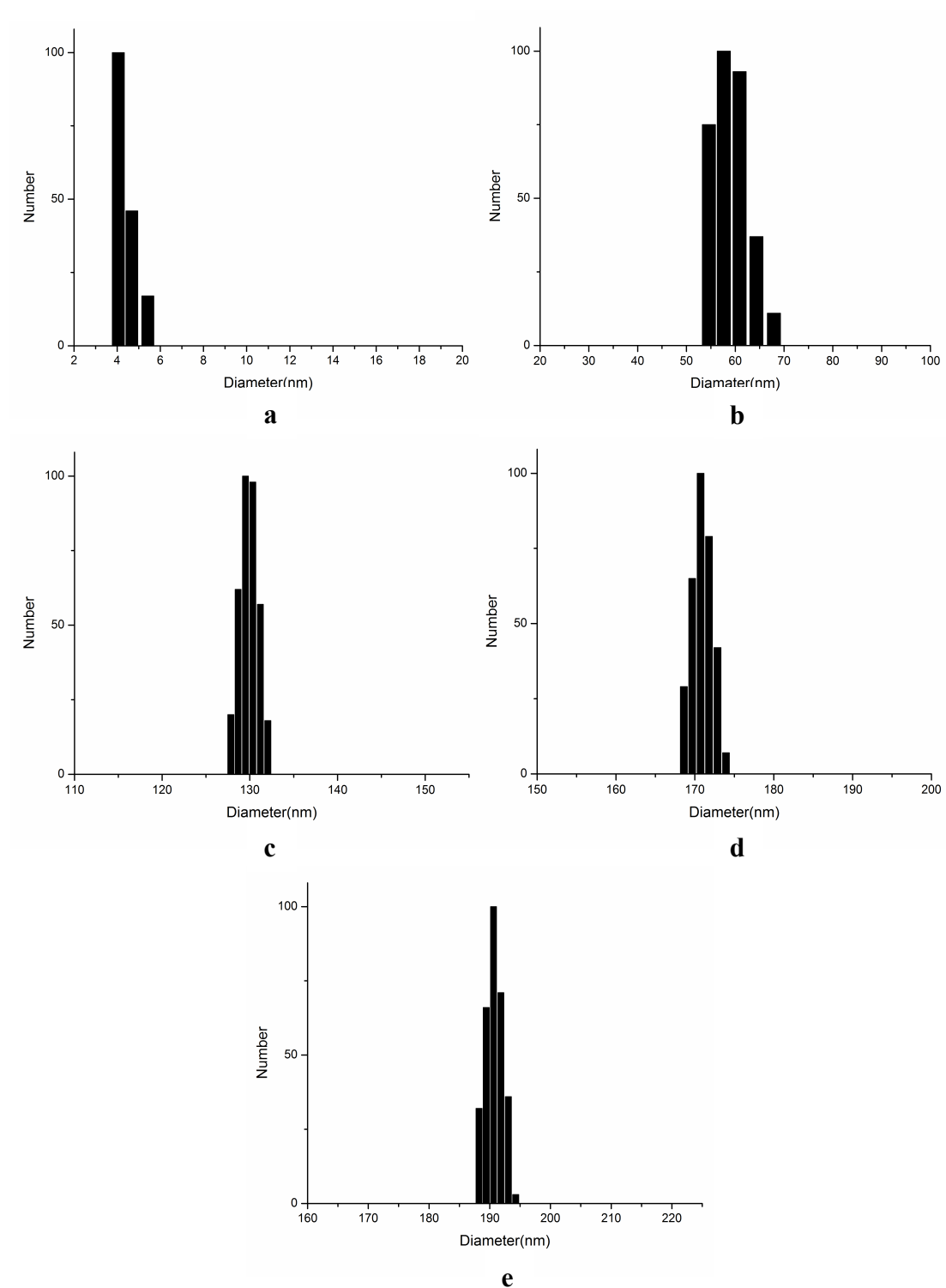


Figure S2. Particle size distributions of G4.0-COOH PAMAM assembly at 0 min (a), 64 min (b), 112 min (c), 136 min (d) and 360 min (e), as measured by DLS.

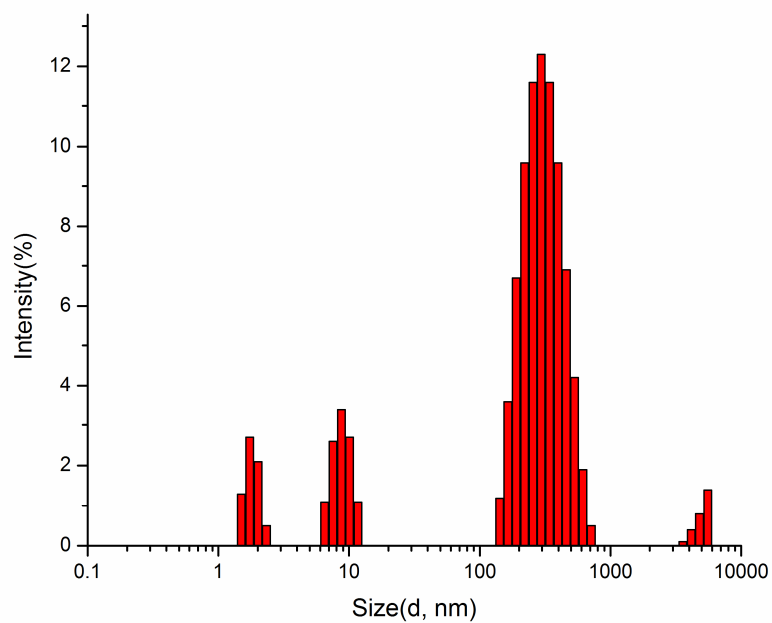


Figure S3. Particle size distributions of G4.0-COOH PAMAM assembly at 14 h measured by dynamic light scattering at two angles (30 °C and 90 °C).

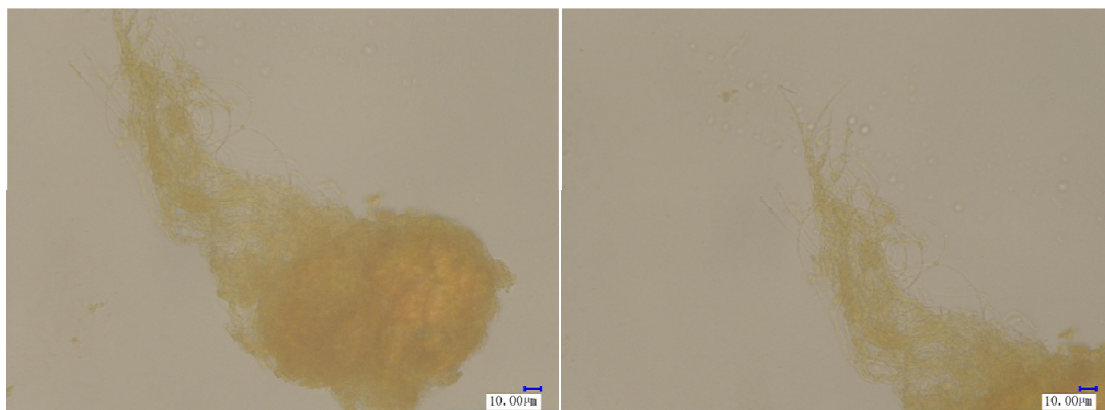


Figure S4. The G3.0 PAMAM dendrimer self-assembled into microfibers in aqueous solution of iron ion.



Figure S5. The G4.0 PAMAM dendrimer self-assembled into similar microribbon in pH=3 (a), pH=7 (b) and pH=11 (c).

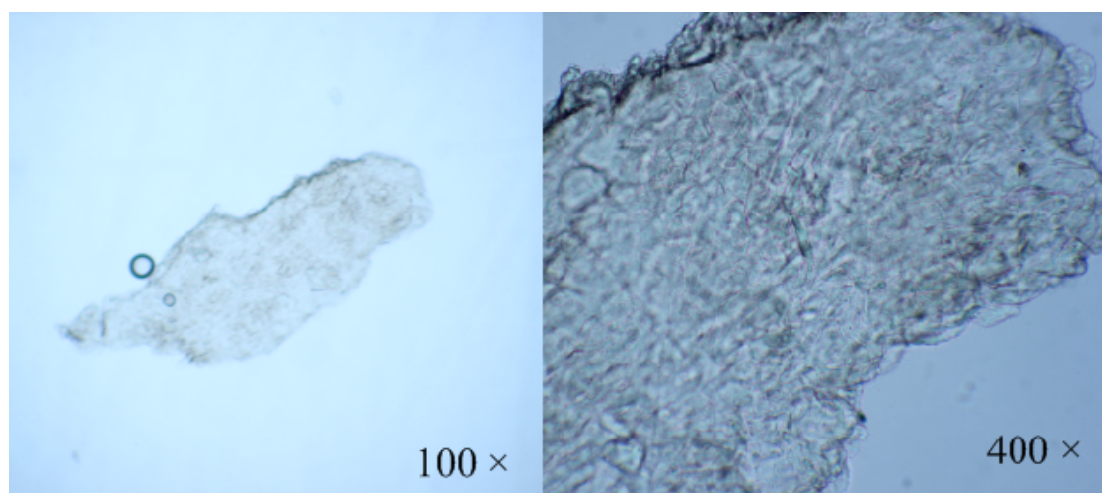


Figure S6. The G4.0 PAMAM dendrimer self-assembled into platy aggregates in aqueous solution of copper chloride. It could not form the microribbon structure.

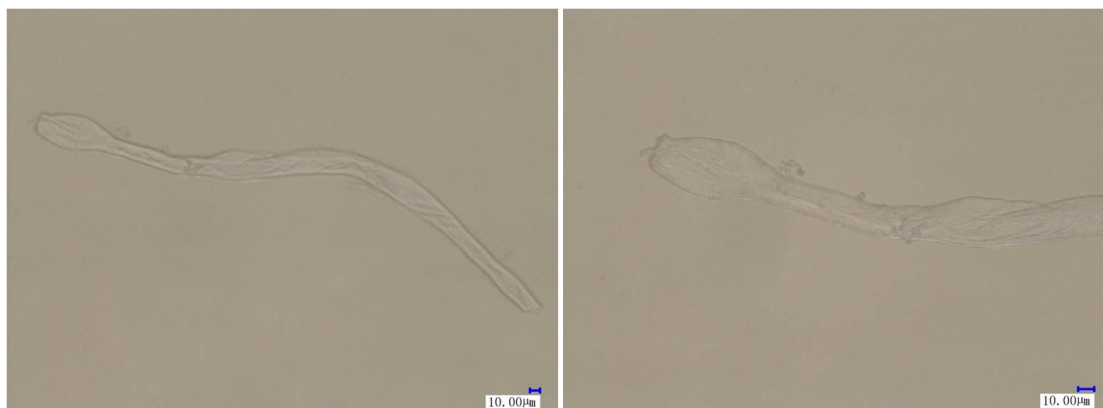


Figure S7. The G4.0 PAMAM dendrimer self-assembled into irregular microscopic aggregates in aqueous solution of AlCl_3 .

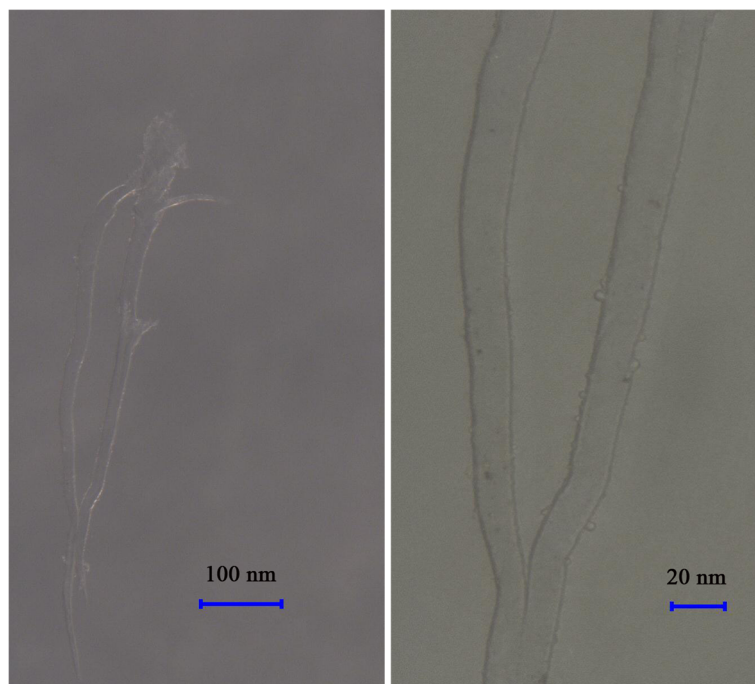


Figure S8. The self-assembly of G4.0 PAMAM dendrimer in the aqueous solution of CaCl_2 .

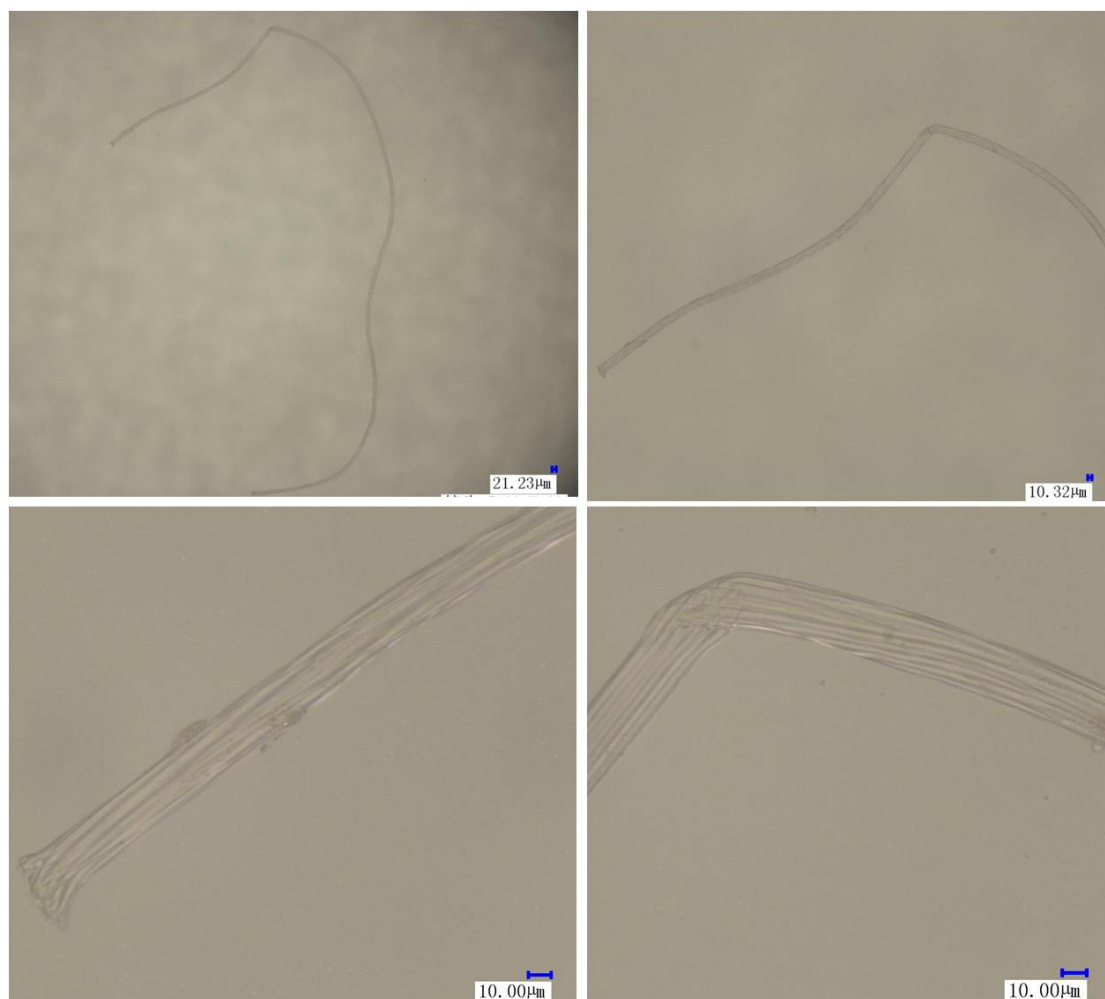


Figure S9. The G4.0 PAMAM dendrimer self-assembled in aqueous solution of $\text{Fe}(\text{NO}_3)_3$. It could form the microribbon structure similar to that in FeCl_3 .

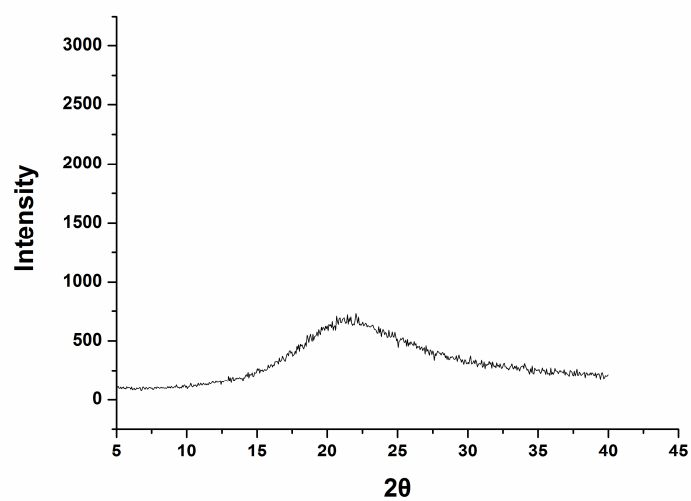


Figure S10. The XRD patterns of G4 PAMAM dendrimer microribbon.