

ELECTRONIC SUPPLEMENTARY INFORMATION

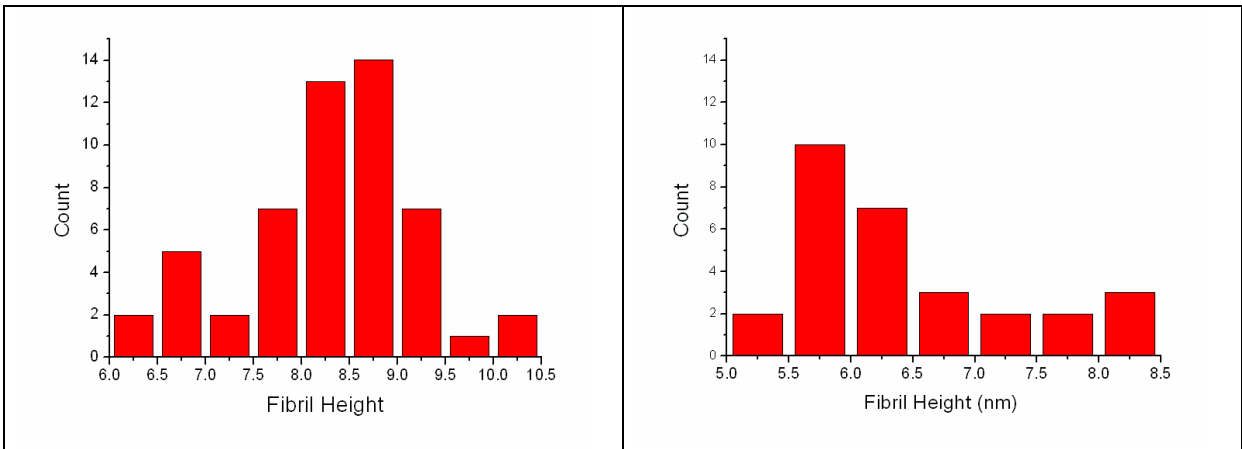


Figure S.1 Height distributions of periodic (left) and non-periodic fibrils (right)

Probe	MSCT Air
Periodic fibrils	(n=42)
Average fibril height*	9.3 ± 1.2 nm
Periodicity	79 ± 7 nm
Bending rigidity†	8.25 x 10 ⁻²⁴ Nm ²
Non-periodic fibrils	(n=22)
Fibril height*	8.1 ± 1.7 nm
Bending rigidity†	9.6 x 10 ⁻²⁴ Nm ²

Table S.1 Morphological and bending rigidity data of wild-type α -synuclein fibrils. Statistical difference between periodic and non-periodic fibril height and bending rigidity respectively: * $p < 0.01$, † $p < 0.5$ (Wilcoxon signed-rank test)