Electronic Supplementary Material (ESI) for Analyst

Supplementary information

Uniaxially-Aligned PVDF nanofibers as sensor, and transmitter for biotelemetry

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Supplementary Figures

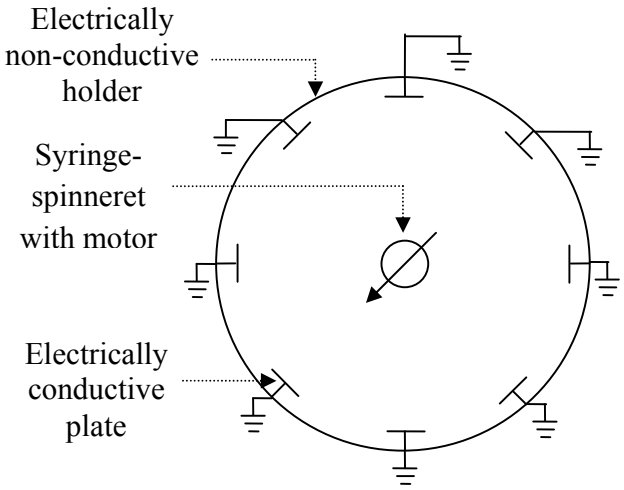

Fig. S1 Schematic illustration of centrifugal electrospinning setup.

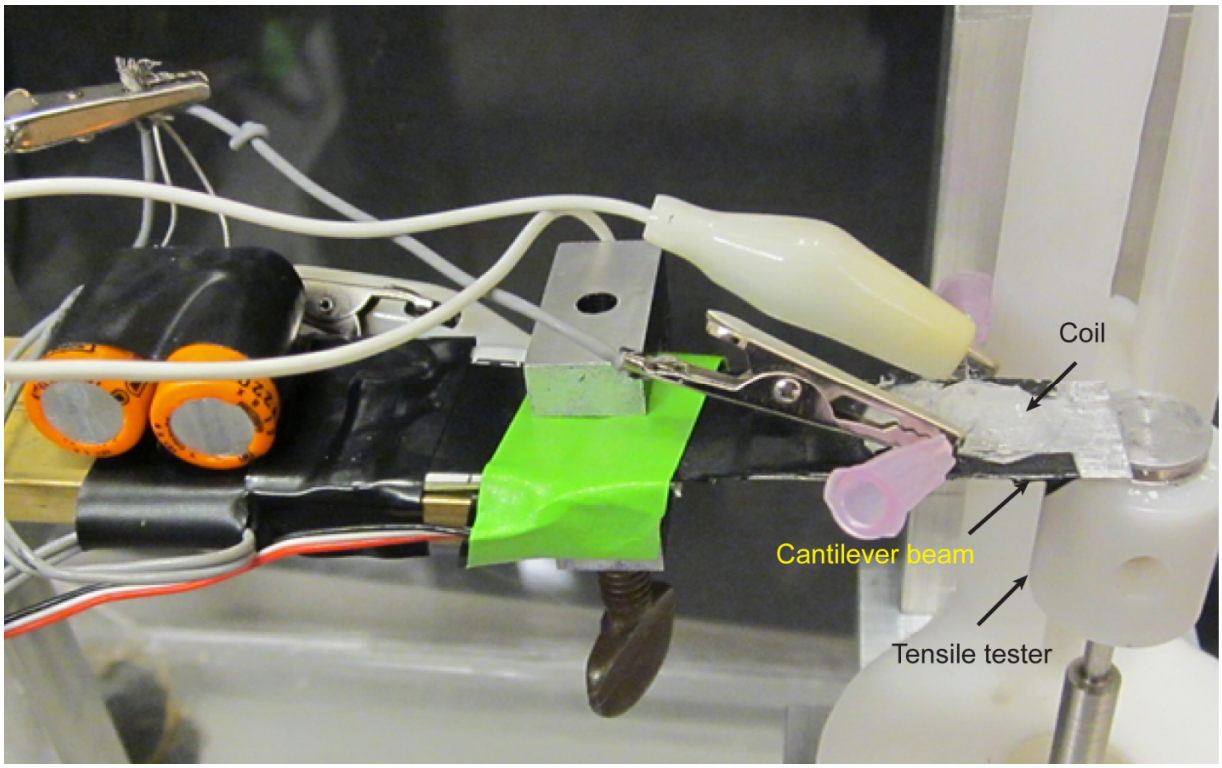

Fig. S2 Photograph of the experimental set up (in part) showing the PVDF nanofiber coil encased in PDMS, cantilever beam and tensile/compression tester.

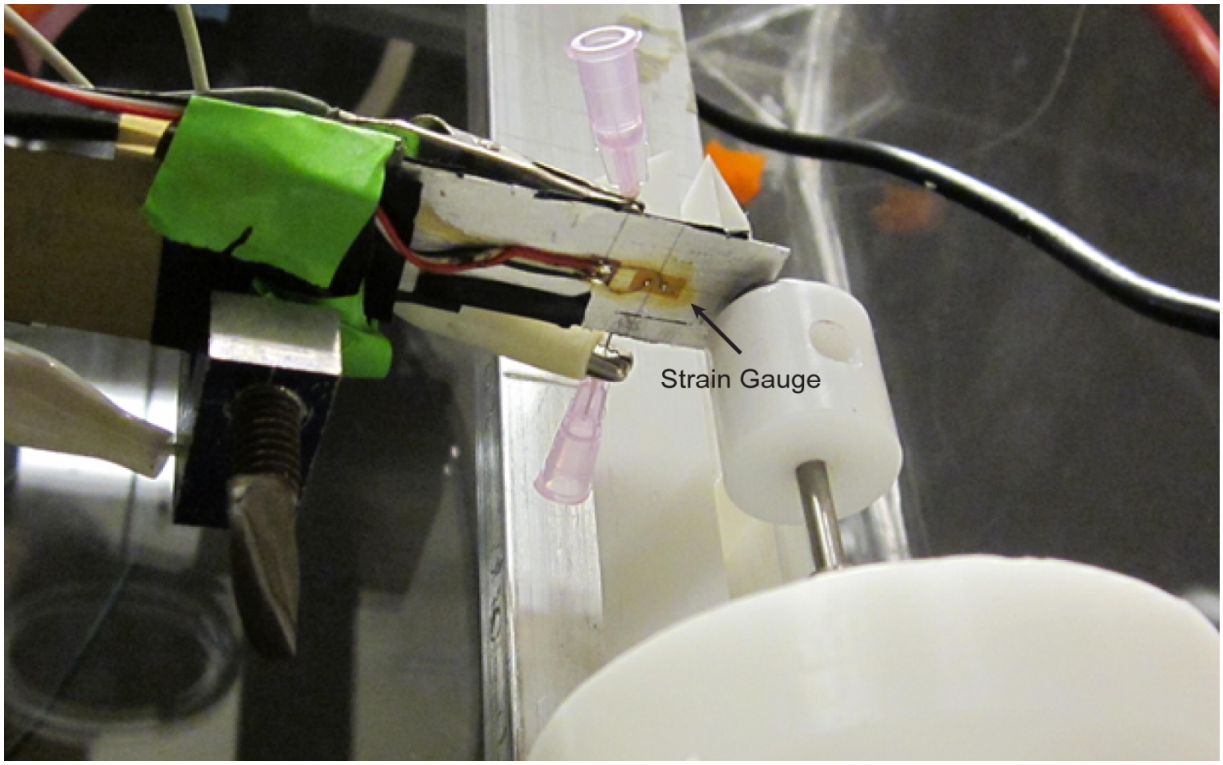

Fig. S3 Photograph of the experimental set up (in part) showing the foil strain gauge affixed to the bottom surface of the cantilever beam and used as a control strain sensor.

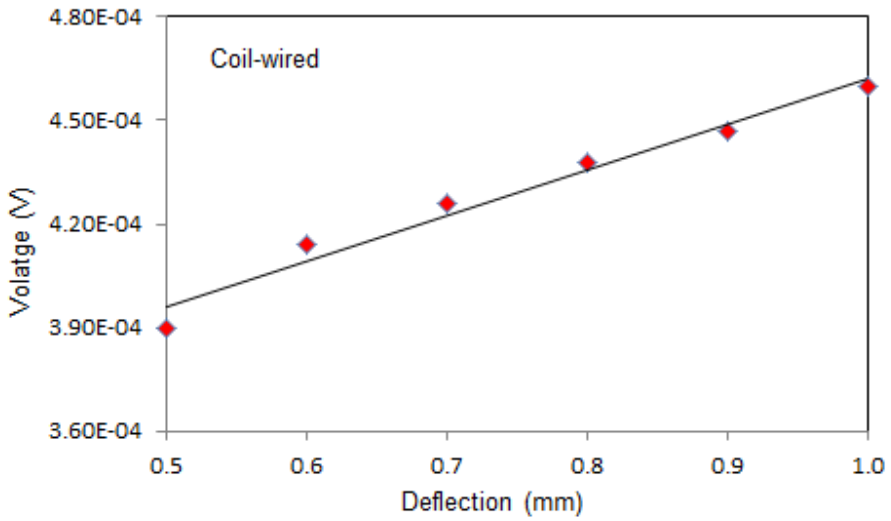

Fig. S4 Voltage signal received via wire connection as a function of the deflection of the free end of the cantilever beam (from 0.5 mm to 1 mm).

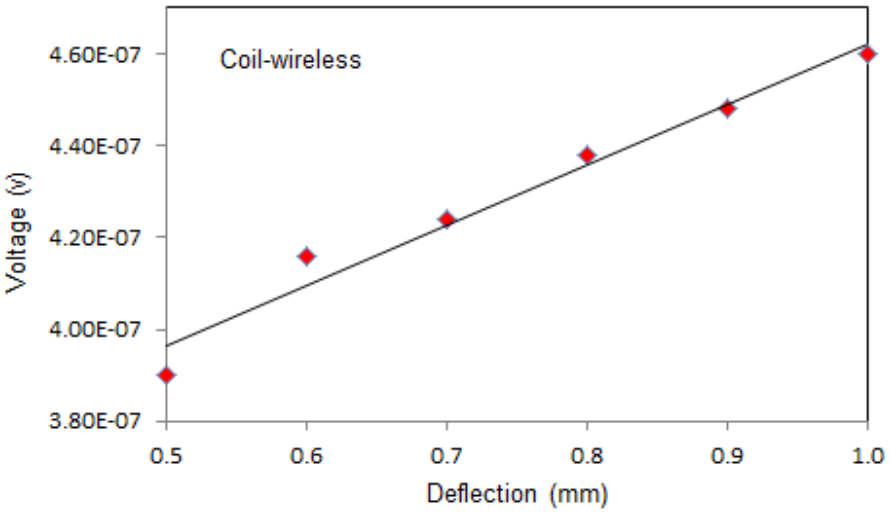

Fig. S5 Voltage signal received wirelessly as a function the deflection of the free end of the cantilever beam (from 0.5 mm to 1 mm).