Supplementary information

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

Dennis Edmondson†, Soumen Jana†, David Wood, Chen Fang, and Miqin Zhang*

Department of Materials Science and Engineering, University of Washington, Seattle, WA 98195, USA

Corresponding author: Prof. M. Zhang, Department of Materials Science and Engineering, University of Washington, Seattle, WA 98195, USA, Telephone: (206) 616-9356, Fax: (206) 543-3100, E-mail: mzhang@u.washington.edu

†The authors contribute equally
**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).