Title: Supplemental Video 1:

Description: Iron/PDMS microrobot demonstrating tumbling motion

Title: Supplemental Video 2:

Description: Iron/PDMS microrobot demonstrating rolling motion and obstacle

avoidance

Title: Supplemental Video 3:

Description: Iron helix interlocked with an ecoflex (hydrophobic) frame

Title: Supplemental Video 4:

Description: Iron helix interlocked with a PDMS (hydrophilic) frame

Title: Supplemental Video 5:

Description: Frequency dependent forward motion of an iron/PDMS microrobot

Title: Supplemental Video 6:

Description: Frequency dependent tumbling motion of an iron/PDMS microrobot