



Supporting Information

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Organic Functional Group on Carbon Nanotube Modulates the Maturation of SH-SY5Y Neuronal Models

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SUPPORTING MATERIALS

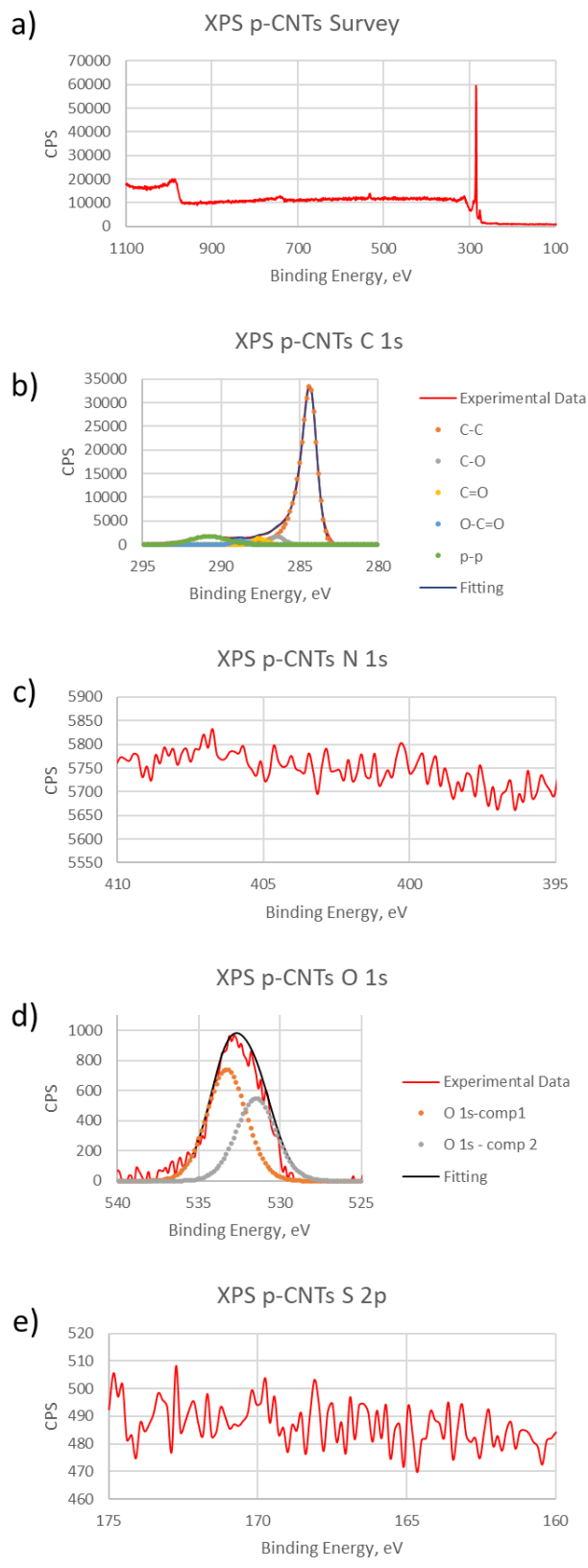


Figure S1. x-ray photospectroscopy (XPS) of p-CNTs with corresponding a) survey analysis b) carbon c) nitrogen d) oxygen and e) sulfur regions.

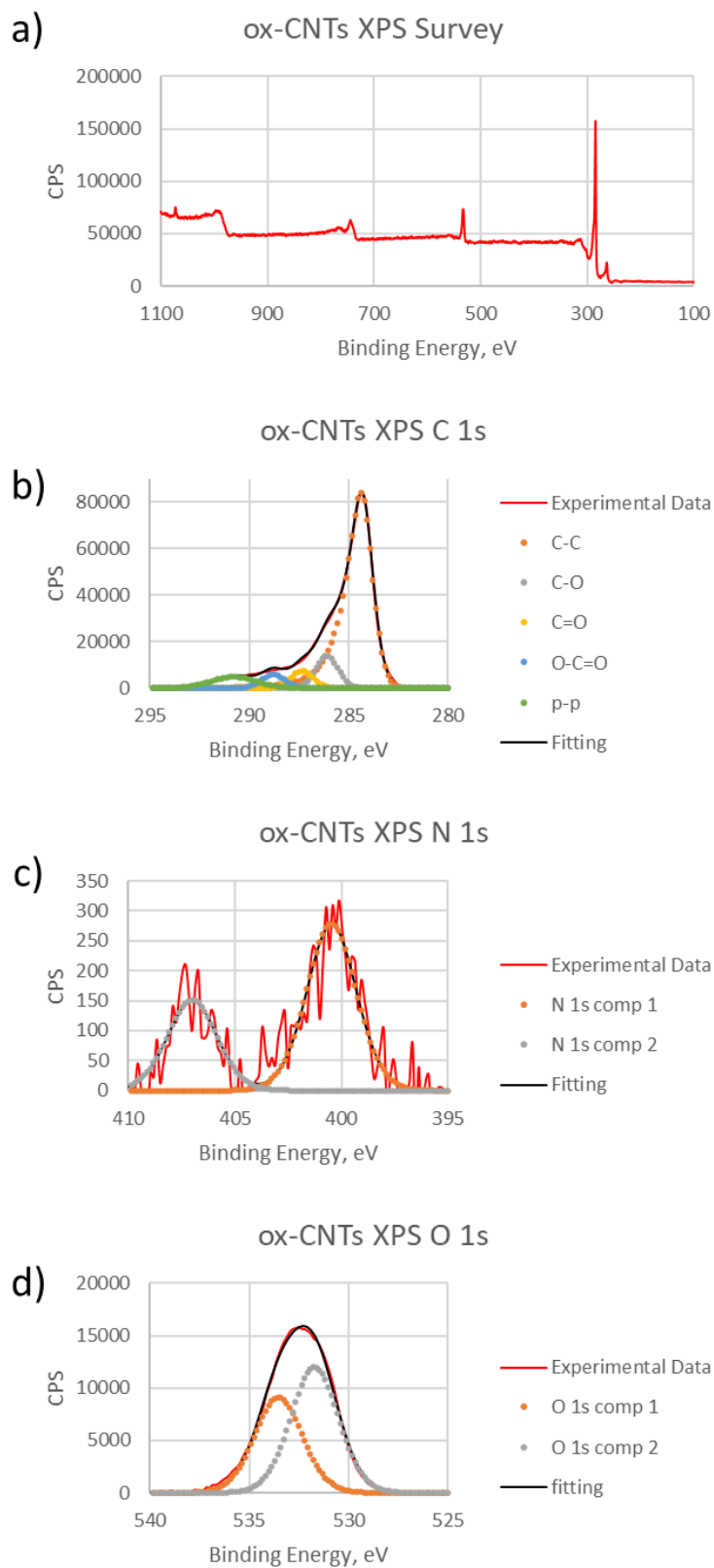


Figure S2. x-ray photospectroscopy (XPS) of ox-CNTs with corresponding a) survey analysis b) carbon c) nitrogen and d) oxygen regions.

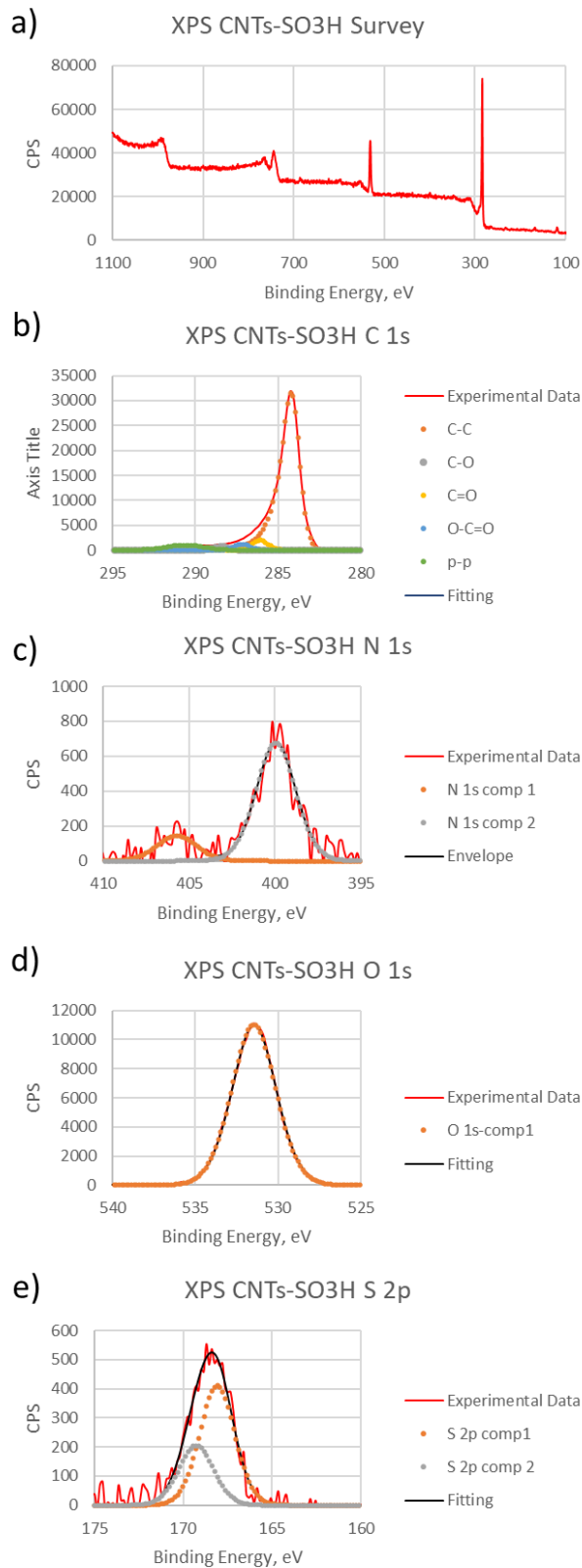


Figure S3. x-ray photospectroscopy (XPS) of CNTs-SO₃H with corresponding a) survey analysis b) carbon c) nitrogen d) oxygen and e) sulfur regions.

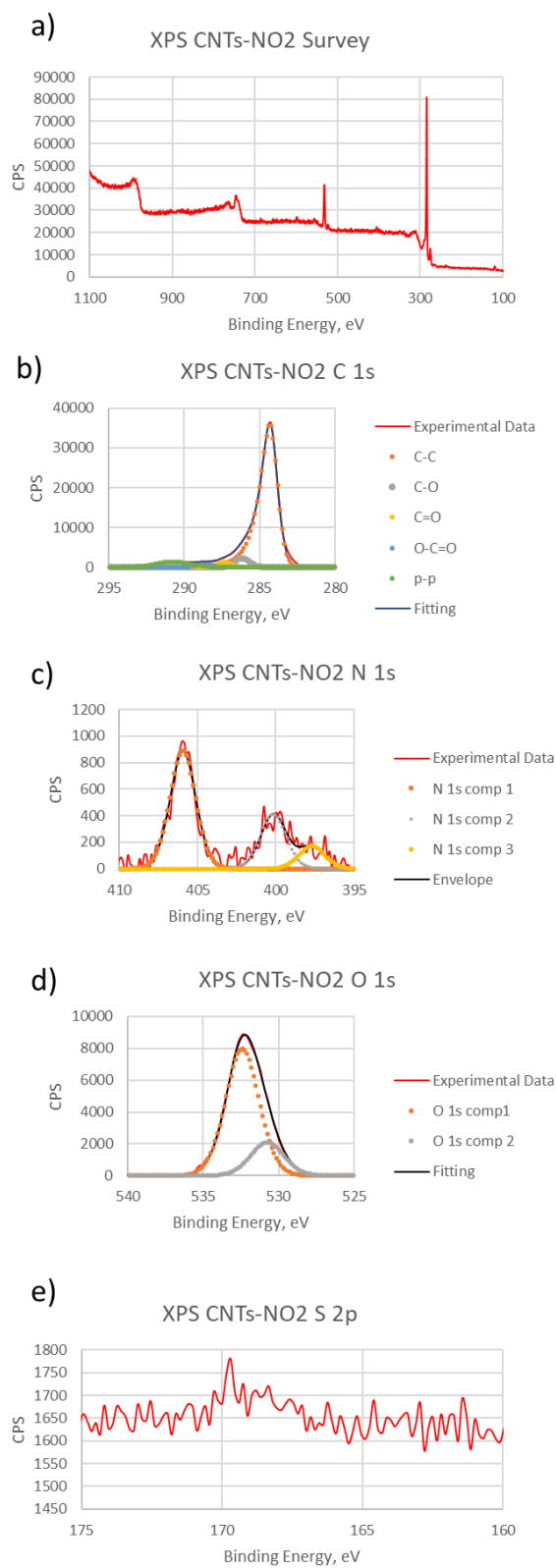


Figure S4. x-ray photospectroscopy (XPS) of CNTs-NO₂ with corresponding a) survey analysis b) carbon c) nitrogen d) oxygen and e) sulfur regions.

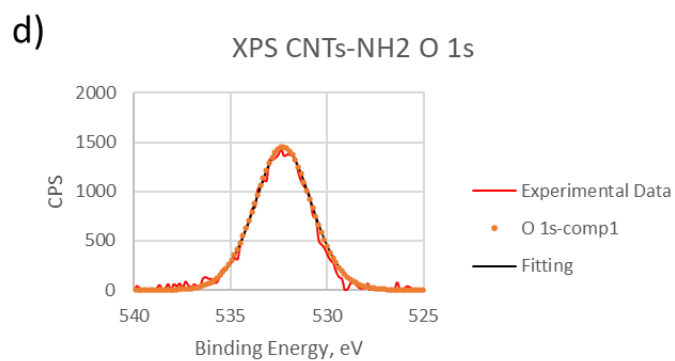
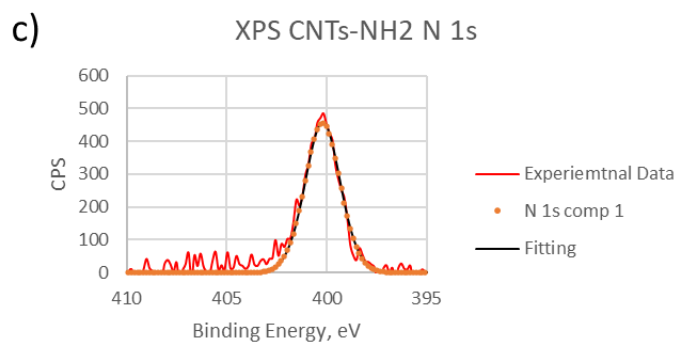
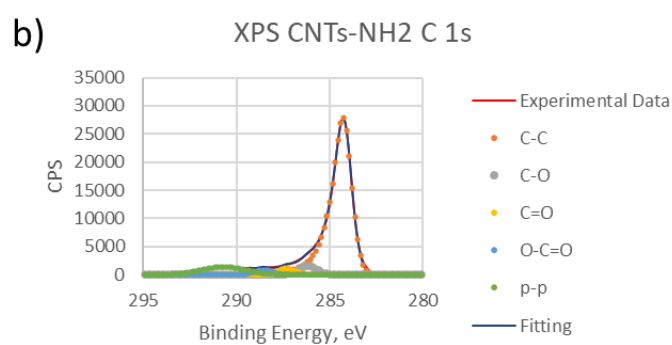
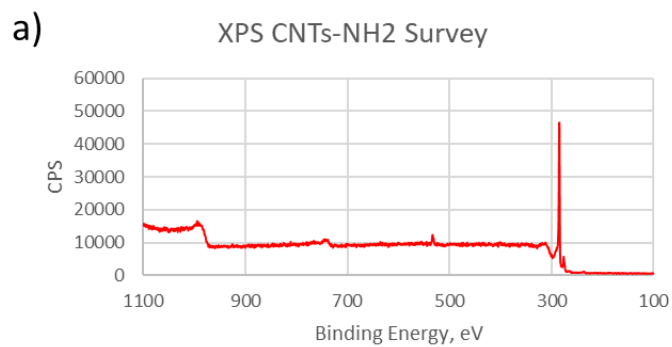


Figure S5. x-ray photospectroscopy (XPS) of CNTs-NH₂ with corresponding a) survey analysis b) carbon c) nitrogen and d) oxygen regions.

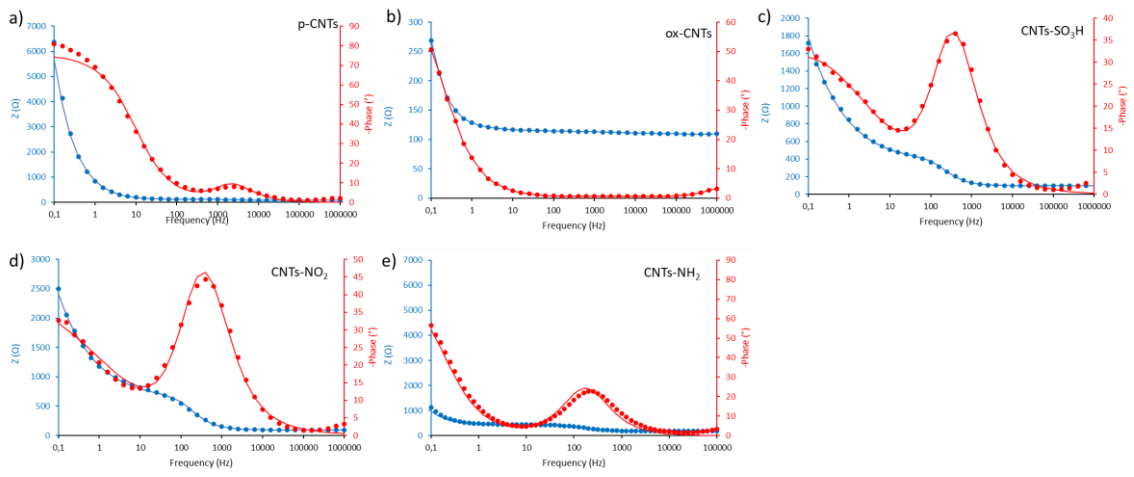


Figure S6. Bode plot of a) p-CNTs, b) ox-CNTs, c) CNTs-SO₃H, d)CNTs-NO₂, and c) CNTs-NH₂

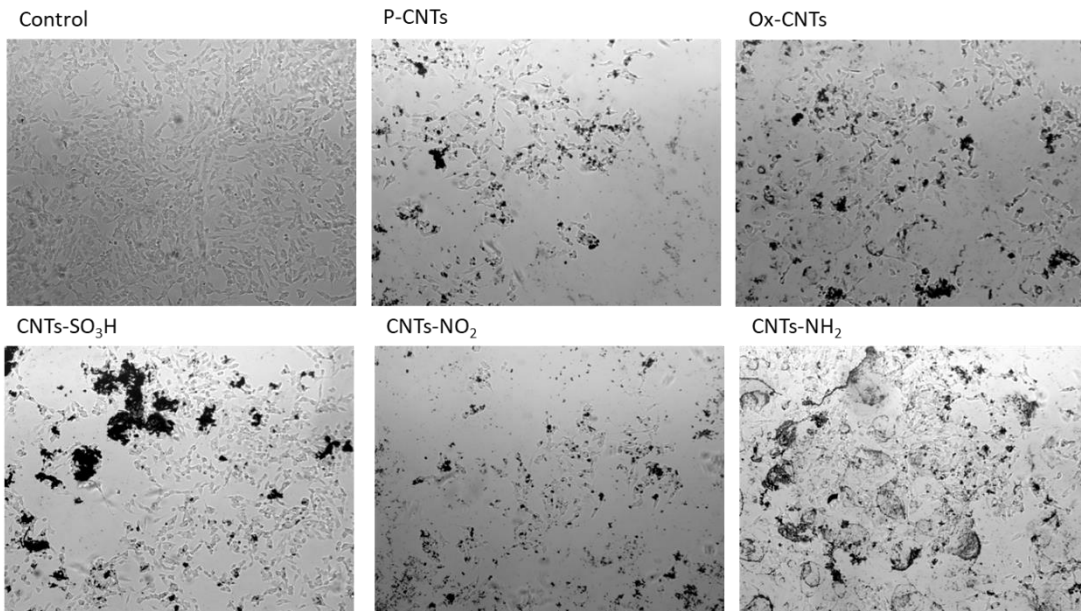


Figure S7. Optical microscopy images of various f-CNTs after 3 Days of incubation with SH-SY5Y cells.

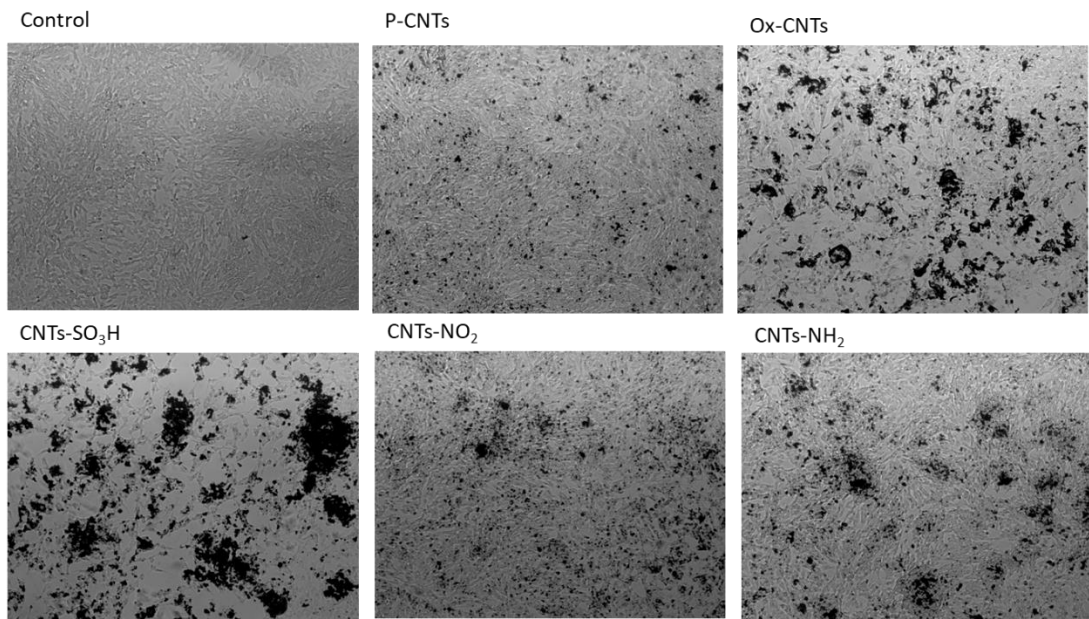


Figure S8. Optical microscopy images of various f-CNTs after 7 days of incubation with SH-SY5Y cells.

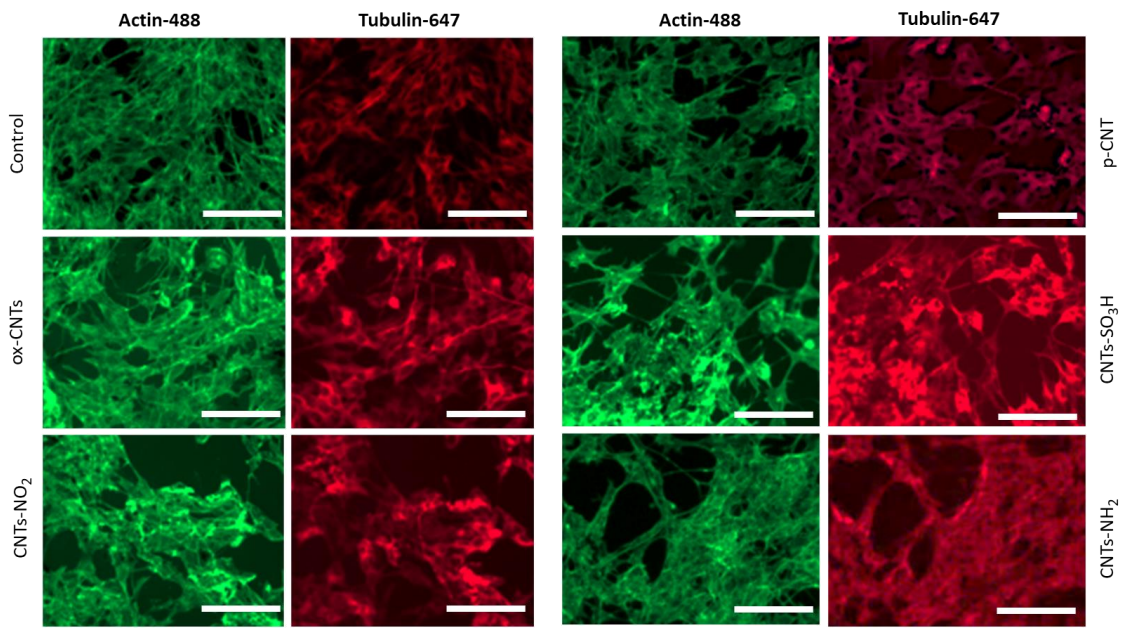


Figure S9. Zoomed images of the epifluorescence images of f-CNT substrates with SH-SY5Y cells after 7 Days incubation. Scale bar: 100 μ m.

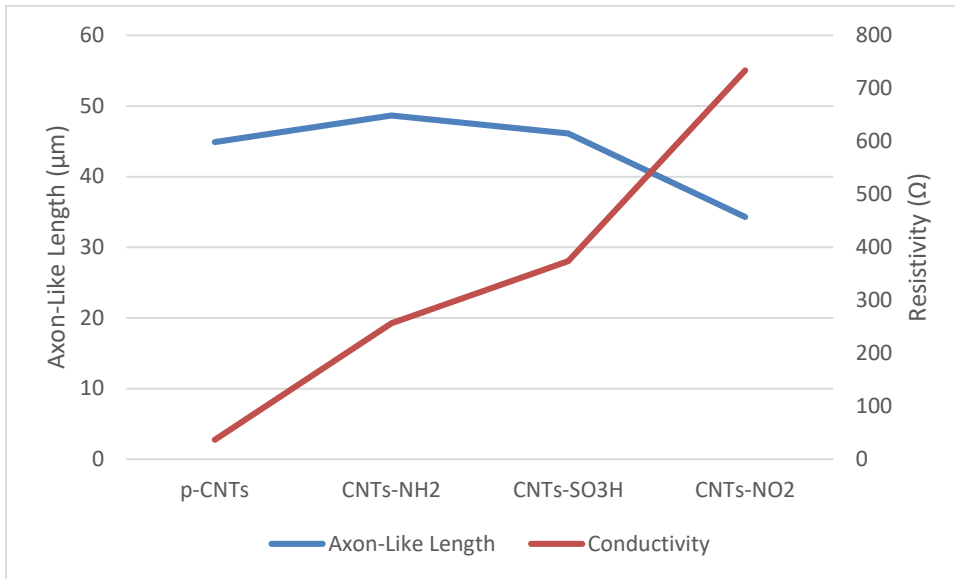


Figure S10. Plot showing the correlation between the cell processes formed in each substrate and the resistivity of the material.