## Accepted Manuscript

Title: The Rat's not for Turning: Dissociating the Psychological Components of Cognitive Inflexibility

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## **ACCEPTED MANUSCRIPT**

1	Swift Electrochemical Detection of Paraben an Endocrine Disruptor
23	By In <sub>2</sub> O <sub>3</sub> Nanobricks
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15	
16 17	Abstract
17	Novel indium oxide (In <sub>2</sub> O <sub>3</sub> ) nanobricks have been prepared by template-less and surfactant-
19	free hydrothermal synthesis method and were characterized by X-ray diffraction (XRD), Raman
20	spectroscopy, Photoluminescence (PL) spectroscopy and field emission scanning electronic
21	microscopy (FESEM). The synthesized $In_2O_3$ nanobricks were successfully immobilized on the
22	surface of glassy carbon electrode for the detection of Parabens (butylparaben). Owing to the
23	unique structure and intriguing properties of these In <sub>2</sub> O <sub>3</sub> nanobricks, the nanostructured thin-film
24	electrode has shown an obvious electrocatalytic activity for the detection of butylparaben (BP).
25	The detection limit (LOD) was estimated as 3s/m and the sensitivity (LOQ) was calculated as
26	10 s/m and were found to be 0.08 $\mu$ M and 0.26 $\mu$ A $\mu$ M <sup>-1</sup> cm <sup>-2</sup> respectively. This sensor showed
27	high sensitivity compared with the reported electrochemical sensors for the detection of BP. The
28	fabricated sensor was successfully applied for the detection of butyl paraben in real cosmetic
29	samples with good recovery ranging from 96.0% to 100.3%.
30	
31	Keywords: In <sub>2</sub> O <sub>3</sub> nanobricks, synthesis, Electrochemical BP detection
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