

# Novel Portable Sensing System with Integrated Multifunctionality for Accurate Detection of Salivary Uric Acid

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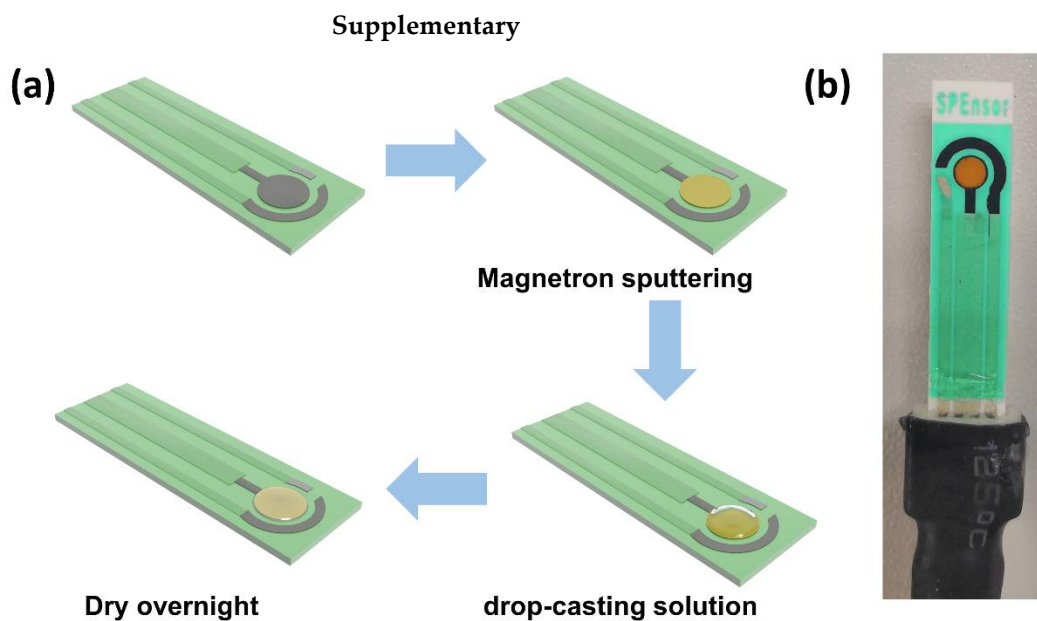
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**Figure S1.** (a) Schematic diagram of the production process of the UAS. (b) Detail photograph of the UAS.

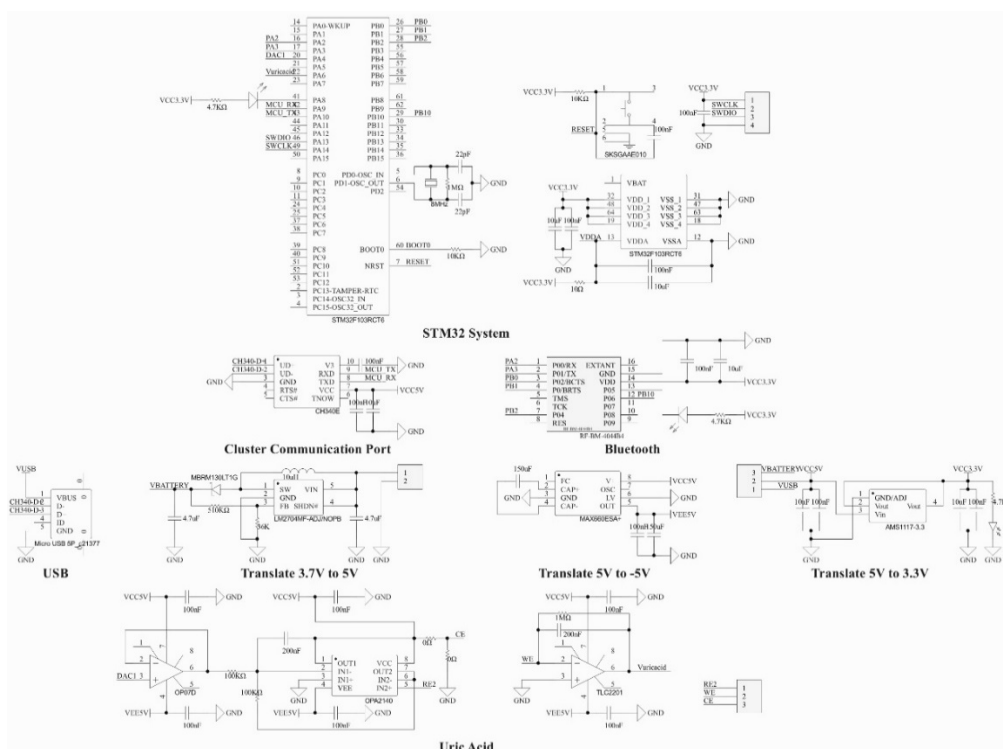
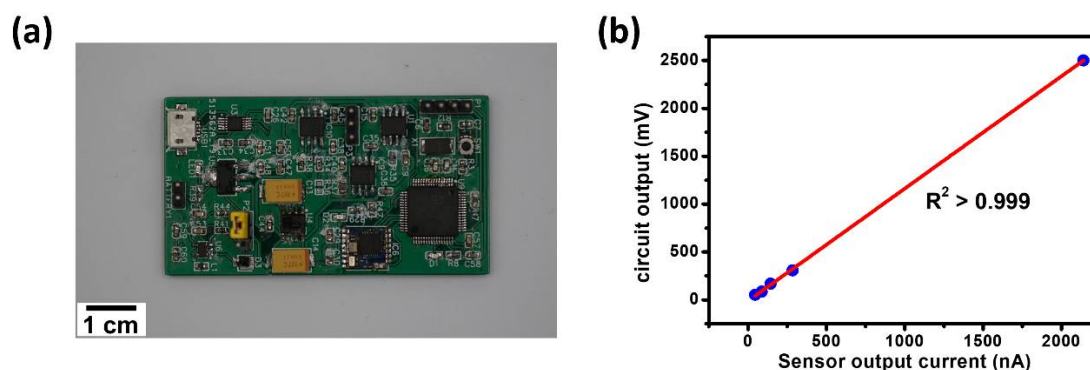


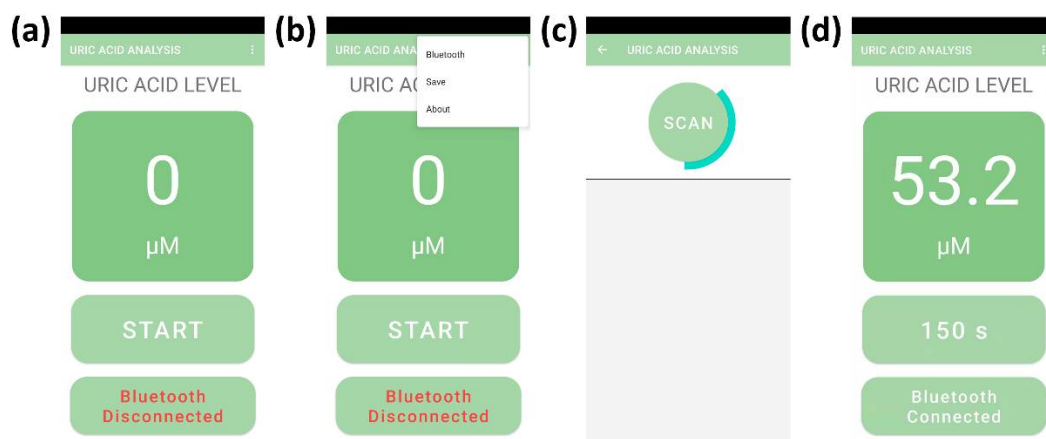
Figure S2. Schematic diagram of all circuits in the PSSS.



Figure S3. Detail photograph of the lithium battery (3.7V) employed for supplying power.



**Figure S4.** (a) Detail photograph of the PCB. (b) Input-output signal response for uric acid sensing signal channel of the PCB.



**Figure S5.** Display interface for the mobile application. (a) The main interface. (b) The menu of functions. (c) Bluetooth scanning and connecting. (d) The uric acid level was displayed 150s after the test started.