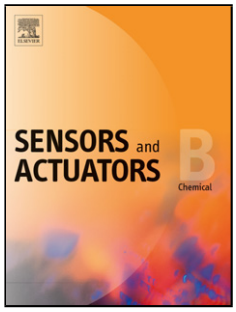


Title: Gold nanoparticles/*f*-MWCNT nanocomposites modified glassy carbon paste electrode as a novel voltammetric sensor for the determination of cyproterone acetate in pharmaceutical and human body fluids

Authors: Mohamed Ibrahim, Hossieny Ibrahim, Noor Almandil, Abdel-Nasser Kawde

PII: S0925-4005(18)31354-6
DOI: https://doi.org/10.1016/j.snb.2018.07.105
Reference: SNB 25074

To appear in: *Sensors and Actuators B*

Received date: 3-2-2018
Accepted date: 22-7-2018

Please cite this article as: Ibrahim M, Ibrahim H, Almandil N, Kawde A-Nasser, Gold nanoparticles/*f*-MWCNT nanocomposites modified glassy carbon paste electrode as a novel voltammetric sensor for the determination of cyproterone acetate in pharmaceutical and human body fluids, *Sensors and Actuators: B. Chemical* (2018), https://doi.org/10.1016/j.snb.2018.07.105

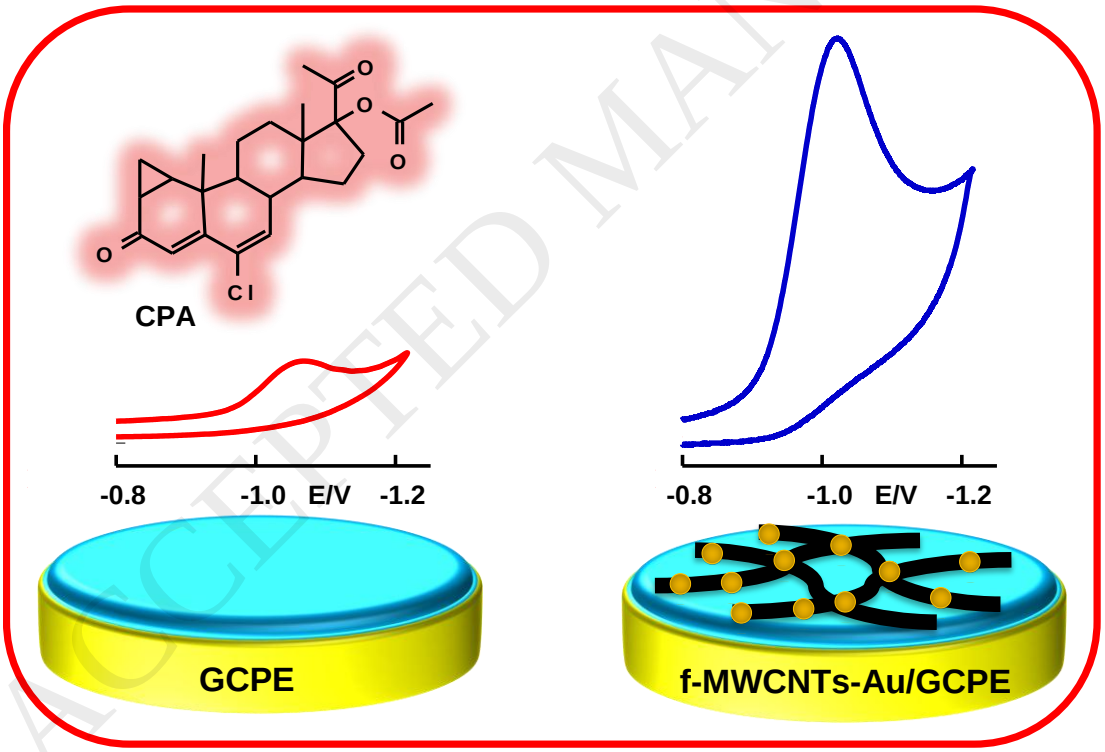
Gold nanoparticles/*f*-MWCNT nanocomposites modified glassy carbon paste electrode as a novel voltammetric sensor for the determination of cyproterone acetate in pharmaceutical and human body fluids

Mohamed Ibrahim[a,*], Hossieny Ibrahim[b], Noor Almandil[a] and Abdel-Nasser Kawde[c]

[a] *Department of Clinical Pharmacy Research, Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, P.O. Box 1982, Dammam* 31441, *Saudi Arabia*
[b] *Chemistry Department, Faculty of Science, Assiut University, Assiut, Egypt*
[c] *Chemistry Department, College of Sciences, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia*

***Corresponding author:** *Department of Clinical Pharmacy Research, Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, P.O. Box 1982, Dammam* 31441, *Saudi Arabia*, E-mail address: msmibrahim@iau.edu.sa (Mohamed Ibrahim) Tel:+966560829660

Graphical abstract



Highlights

- A novel voltammetric sensor based on AuNPs/*f*-MWCNT/GCPE was developed.