Università degli Studi di Ferrara

Dipartimento di Scienze Chimiche e Farmaceutiche

Dottorato di Ricerca in Scienze Chimiche

Istituto Universitario di Studi Superiori IUSS – Ferrara 1391

AVVISO DI SEMINARIO:

MINIATURISED AND COST-EFFECTIVE PRINTED (BIO)SENSORS

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ore 15.30-17.30 − Aula D6

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ABSTRACT: Screen-printed electrodes are recognized as successful sensors in modern electroanalytical chemistry due to their low background, wide potential window, easiness to use, cost-effectiveness, and easiness of surface modification. These valuable properties combined with the use of nanomaterials have provided a significant enhancement of the printed (bio)sensor performances for their applications in biomedical, environmental, and agrifood sectors. In this context, I will describe my research activity focused on the development of electrochemical printed (bio)sensors modified with electrochemical mediators, enzymes, aptamers as well nanomaterials to detect phosphate, heavy metals, pesticides, chemical and biological warfare agents. Moreover, the recent advances in the use of filter and office paper as active substrates for the development of several printed (bio)sensors will be presented.

Studenti, dottorandi, docenti e tutti gli interessati sono invitati a partecipare