

Electrochemical biosensor: point-of-care for early detection of bone loss

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Abstrak

This book presents the design of a robust, portable and low-cost PoC sensing system for the early detection of bone loss. The device can measure the level of CTx-I-one of the most sensitive biochemical markers of bone resorption-in serum and transmit the measured value to an IoT-based cloud server. The selectivity of the sensing system to CTx-I has been achieved by coating the sensor with artificial antibodies, prepared by means of molecular imprinting technology. Explaining all aspects of the systems development in detail, the book will be of great interest to all engineers, researchers and scientists whose work involves the development of electrochemical sensors and PoC devices.