



Contribution ID: 21

Type: **not specified**

Development of a Magnetic Camera for Bio-imaging

Wednesday 5 February 2020 12:16 (11 minutes)

With limited scaling and high costs of current magnetic-marker based medical diagnostics, strides have been made to adapt magnetoresistive devices to areas where traditionally used devices such as superconducting quantum interference device (SQUID) magnetometers, impose conditions with either limited usage range or increased complexity and expense of such systems. By developing a tunnel magnetoresistive (TMR) sensor and adapting a magnetic scanner equipped with an older generation giant magnetoresistive (GMR) sensor, a mapping of magnetic nanoparticles can be accomplished, allowing detection of marked cells.

Author: MATOS, Francisco

Presenter: MATOS, Francisco