

METABOLIC FLUX MICROSCOPY AND THE METABOLIC FLUX MICROSCOPE FOR FUNCTIONAL HISTOPATHOLOGY: IN SITU SPATIAL IMAGING, MAPPING AND DISPLAY OF DYNAMIC ME

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PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10,386,371	08/20/2019	2012-006

BRIEF DESCRIPTION

This invention provides methods for metabolic flux and kinetic measurement, imaging and microscopy. It is a method that generates an output representing in situ metabolic flux rates of a sample, where the sample is obtained from an individual to who one or more isotope-labeled precursors have been administered for a period of time sufficient for one or more isotope labels to become incorporated into the individual.

SUGGESTED USES

Altered metabolic flux is pertain to the malignant phenotype and thus this method describes the relationship between signaling networks, drug resistance, metabolite transfer, microenvironment and metabolism.

ADVANTAGES

Measure metabolic rates of malignancies and their drug resistance.

RELATED MATERIALS

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OTHER INFORMATION

KEYWORDS

Metabolism, diagnostics, cancer

CATEGORIZED AS

» **Biotechnology**

» Health

» **Medical**

» Diagnostics

» Disease: Cancer

RELATED CASES

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