TITLE OF THE INVENTION: METHODS AND SYSTEM FOR ASSOCIATING BETWEEN DISCHARGE OF CHEMICALS, AND CORRESPONDING GENETIC, MEDICAL AND/OR PATHOLOGICAL CONDITIONS

ABSTRACT

Method for determining the effect of a selected treatment administered to a patient, which includes the procedures of acquiring VOC-emission-data of pre-treatment-target-cells-cultures and producing a pre-treatment-target cells-VOC-profile from the VOC-emission of the pre-treatment-target-cells-cultures. Producing an MCD-target-cells-VOC-profile by:

(a) inducing MCD on non-treated target-cells-cultures thereby producing post-MCD-target-cells-cultures; and

(b) acquiring VOC-emission-data of the post-MCD-target-cells-cultures.

Applying the selected treatment to target-cells-cultures and acquiring VOC-emission-data of post-treatment-target-cells-cultures and determining the effect of the selected treatment. The treatment is determine as effective when:

(a) concentration values from VOC-emission-data of pre-treatment-target-cells-cultures, of VOCs associated with the pre-treatment-target-cells-VOC-profile, are greater than concentration values from the VOC-emission-data of post-treatment-target-cells-cultures, of VOCs associated with the pre-treatment-target-cells-VOC profile; and

(b) concentration values from VOC-emission-data of post-treatment-target-cells-cultures, of VOCs associated with the MCD-target-cells-VOC-profile, emitted by the post-treatment-target-cell-cultures, are greater than concentration

values from the VOC-emission-data of pre-treatment-target-cells-cultures, of VOCs associated with the MCD-target-cells-VOC-profile, emitted by the pre-treatment-target-cell cultures.

(FIG. 1)