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(71) Applicants: **CORRELOGIC SYSTEMS, INC.** [US/US]; Suite 300, 6701 Democracy Boulevard, Bethesda, MD 20817 (US). **THE UNITED STATES OF AMERICA as represented by THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES** [US/US]; Office of Technology Transfer, National Institute of Health, 8011 Executive Boulevard, Suite 325, Rockville, MD 20852 (US).

(72) Inventors: **HITT, Ben, A.**; 1910 Cuire Dr., Severn, MD 21144 (US). **PETRICOIN, Emanuel, F., III**; 2805 Feather Ridge Ct., Dunkirk, MD 20754 (US). **LEVINE, Peter, J.**; 9608 Sotweed Dr., Potomac, MD 20854 (US). **LIOTTA, Lance, A.**; 8601 Bradley Boulevard, Bethesda, MD 20817 (US).

(74) Agent: **SABETT, Randy, V.**; Cooley Godward LLP, One Freedom Square, Reston Town Center, 11951 Freedom Drive, Reston, VA 20190-5656 (US).

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(54) Title: A PROCESS FOR DISCRIMINATING BETWEEN BIOLOGICAL STATES BASED ON HIDDEN PATTERNS FROM BIOLOGICAL DATA

(57) Abstract: The invention describes a process for determining a biological state through the discovery and analysis of hidden or non-obvious, discriminatory biological data patterns. The biological data can be from health data, clinical data, or from a biological sample, (e.g., a biological sample from a human, e.g., serum, blood, saliva, plasma, nipple aspirants, synovial fluids, cerebrospinal fluids, sweat, urine, fecal matter, tears, bronchial lavage, swabbings, needle aspirantas, semen, vaginal fluids, pre-ejaculate.), etc. which is analyzed to determine the biological state of the donor. The biological state can be a pathologic diagnosis, toxicity state, efficacy of a drug, prognosis of a disease, etc. Specifically, the invention concerns processes that discover hidden discriminatory biological data patterns (e.g., patterns of protein expression in a serum sample that classify the biological state of an organ) that describe biological states.