Lead Inventor: Basil Rigas, Ph.D., Professor, Department of Medicine / Chief, Division of Cancer Prevention

Title: Apparatus and Method of Detection and Localized Treatment of Abnormal Conditions

Background: Various chemical compound biomarkers have been developed to detect disease and other indicators of an individual’s health. Biomarkers are typically used to determine, on a post hoc basis, a condition that a person suffers from, including early changes of a disease even before it may be fully expressed clinically.

Technology Description: The present invention allows for cancer and other abnormal conditions to be diagnosed through the detection of biomarkers of minute quantities directly at the site of their production and also provides for the release of therapeutic agents into the same site. This technology minimizes toxicity by using a sensor to detect the abnormality and focuses drug delivery to a location within the body where the neoplastic changes, including but not limited to, benign and malignant cancerous changes are present. This technology is applicable, but not limited to, to cardiovascular diseases, lung diseases, kidney diseases, brain diseases and skin diseases.


Advantages: This technology minimizes toxicity by using a sensor to detect the abnormality and a focused drug delivery system that administers therapeutic agents to the specific location within the body where the neoplastic changes are present.

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