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(54) Title: BIOMARKERS FOR PRE-DIABETES, CARDIOVASCULAR DISEASES, AND OTHER METABOLIC-SYNDROME RELATED DISORDERS AND METHODS USING THE SAME

(57) Abstract: Biomarkers relating to insulin resistance, pre-diabetes, type-2 diabetes, metabolic syndrome, atherosclerosis, and cardiomyopathy are provided, as well as methods for using such biomarkers as biomarkers for insulin resistance, pre-diabetes, type-2 diabetes, metabolic syndrome, atherosclerosis, and cardiomyopathy. In addition, methods for modulating the respective disorders or conditions of a subject are also provided. Also provided are suites of small molecule entities as biomarkers for insulin resistance, pre-diabetes, type-2 diabetes, metabolic syndrome, atherosclerosis, and cardiomyopathy.