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(54) Title: NON-INVASIVE DIAGNOSIS OF SUBCLINICAL REJECTION

(57) Abstract: The invention described herein relates to methods of diagnosing subclinical rejection, based on the level, amount or concentration of two genes, *AKR1C3* and *TCL1A*, whether independently from each other or in combination. When in combination, the level, amount or concentration of the two genes can further be combined with clinical parameters in the form of a composite score. The invention further provides methods for treating subclinical rejection in a subject if/when the subject was diagnosed with subclinical rejection using the method of the invention; as well as a computer system and a kit-of-parts for implementing the method of diagnosing subclinical rejection.