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(54) Title: METHODS FOR PREDICTING RESPONSE TO A THERAPY FOR A DISORDER THROUGH CORE MICROBIOME GUILDS

(57) Abstract: Methods and systems for predicting a subject's response to a therapy by obtaining a first plurality of nucleic acid sequences for genomic DNA from a sample from the gut of a subject. Determine, from the nucleic acid sequences, a plurality of genomic abundance values for a plurality of gut bacteria. Apply a model to the plurality of genomic abundance values, thereby obtaining the prediction of a subject's response to a therapy as an output of the model.

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