

# [***Soil Health Indicators Using Microbial Composition***](https://advance.lexis.com/api/document?collection=news&id=urn:contentItem:69P9-SDN1-DYG2-R09N-00000-00&context=1516831)

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**Body**

ALEXANDRIA, Virginia, Nov. 21 -- TRACE GENOMICS, INC., Ames, Iowa has been assigned a patent (No. US 11821887 B2, initially filed Jan. 25, 2019) developed by five inventors Poornima Parameswaran, Menlo Park, California; Sarah Placella, Oakland, California; Di Wu, San Francisco, California; Daniel S. Weaver, San Francisco, California; and Jenna Morgan Lang, Elk Grove, California, for "***Soil health*** indicators using microbial composition."

An analytics system uses ***soil health*** indicators to determine metrics for ***soil*** samples. In an embodiment, the analytics system receives metadata describing a ***soil*** sample, where the metadata indicates one or more types of crops grown in a geographical location having the ***soil*** sample. The analytics system determines nucleic acid sequence reads of the ***soil*** sample. The analytics system determines taxonomic information of the nucleic acid sequence reads. The analytics system determines microbial composition of the ***soil*** sample using the taxonomic information. The analytics system determines reference metrics of ***soil*** samples from geographical locations in which the one or more types of crop were grown. The analytics system determines a metric of the ***soil*** sample using the microbial composition and the reference metrics. The analytics system transmits the metric to a client device.

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