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Oral microbiome-based feline dermatologic health test - workflow

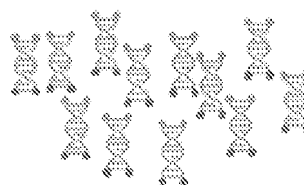
Oral swab collected
from the cat



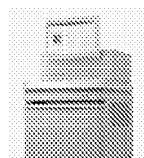
DNA extraction



Metagenomic NGS
library preparation



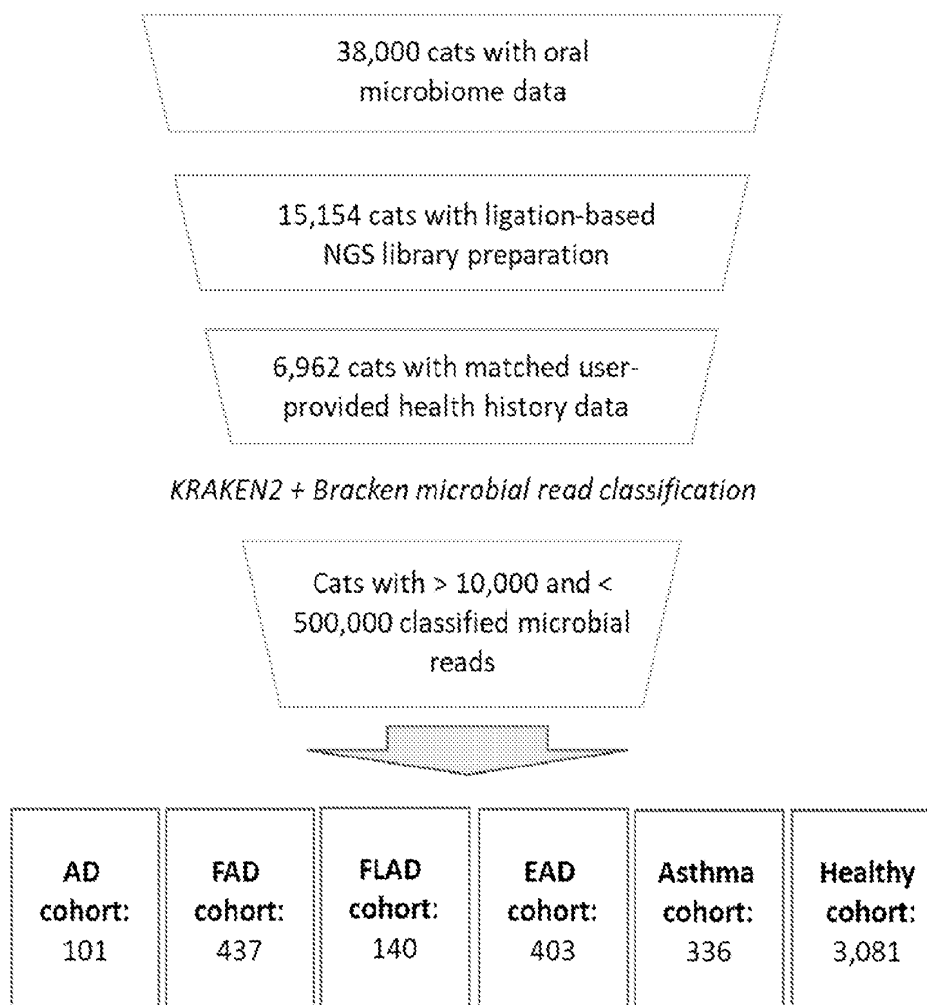
Shotgun metagenomic
NGS



Data analysis and results
report generation
(4-6 weeks from sample to report)

FIG. 1A

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**Feline oral microbiome reference database
construction****FIG. 1B**

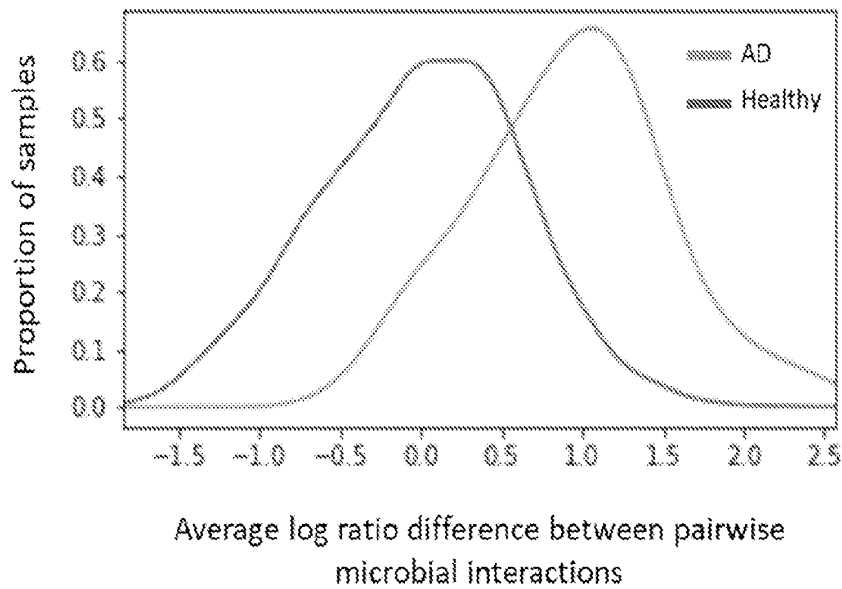


FIG. 2A

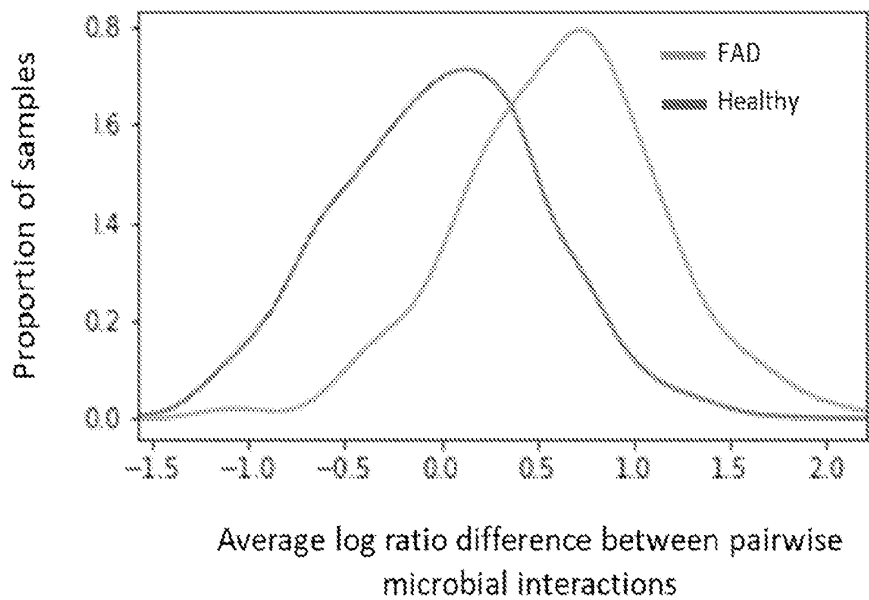


FIG. 2B

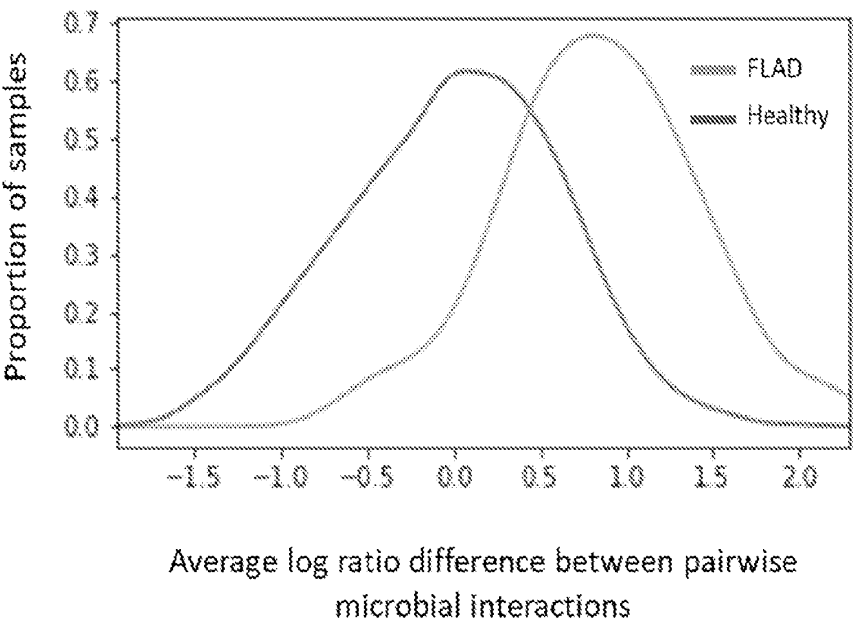


FIG. 2C

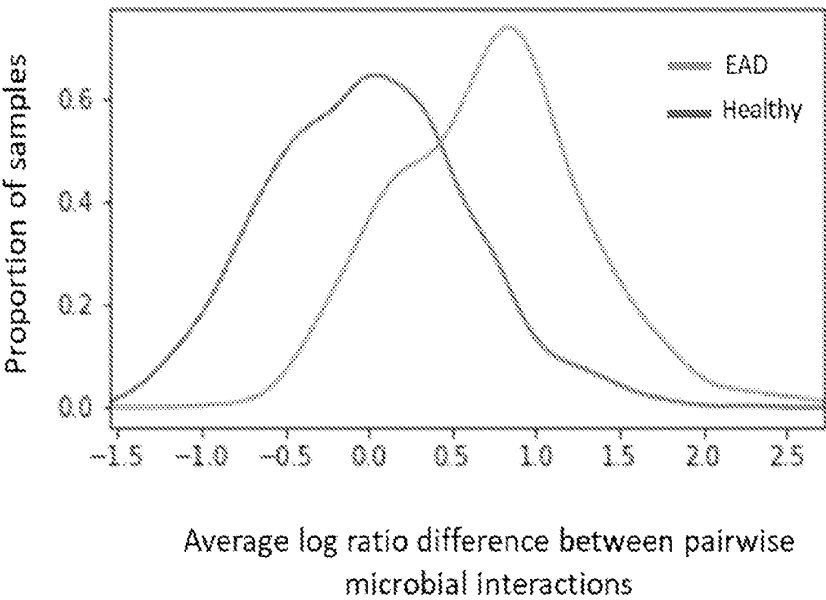


FIG. 2D

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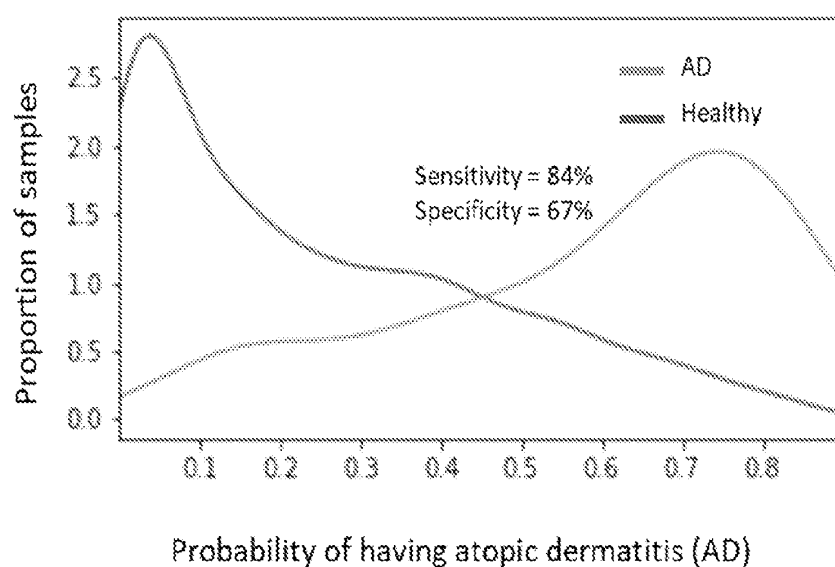


FIG. 3A

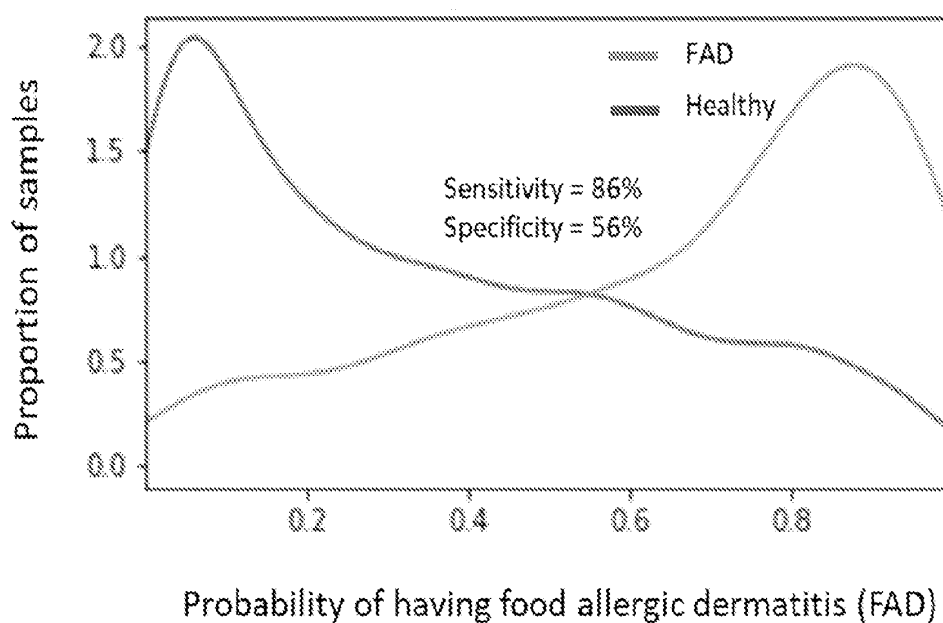


FIG. 3B

Sensitivity = percentage known positive samples classified as medium or high risk

Specificity = percentage known negative samples classified as low risk

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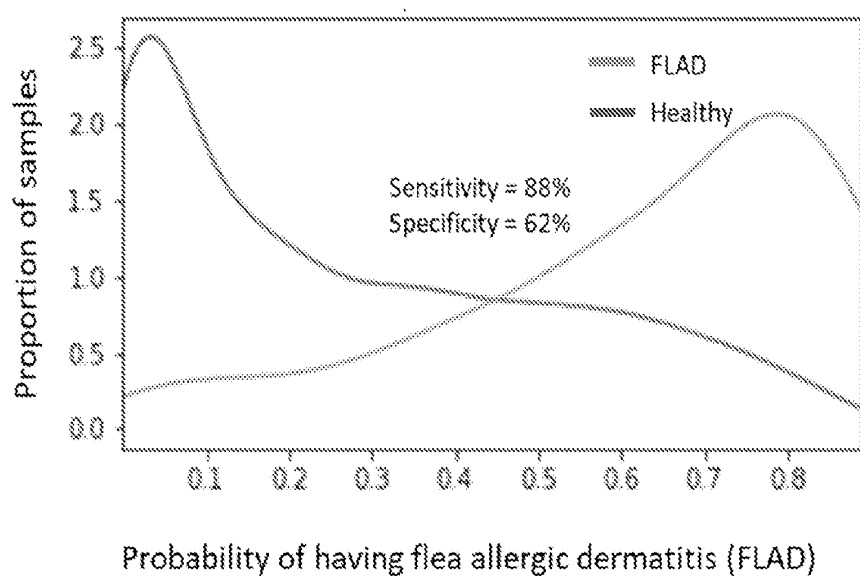


FIG. 3C

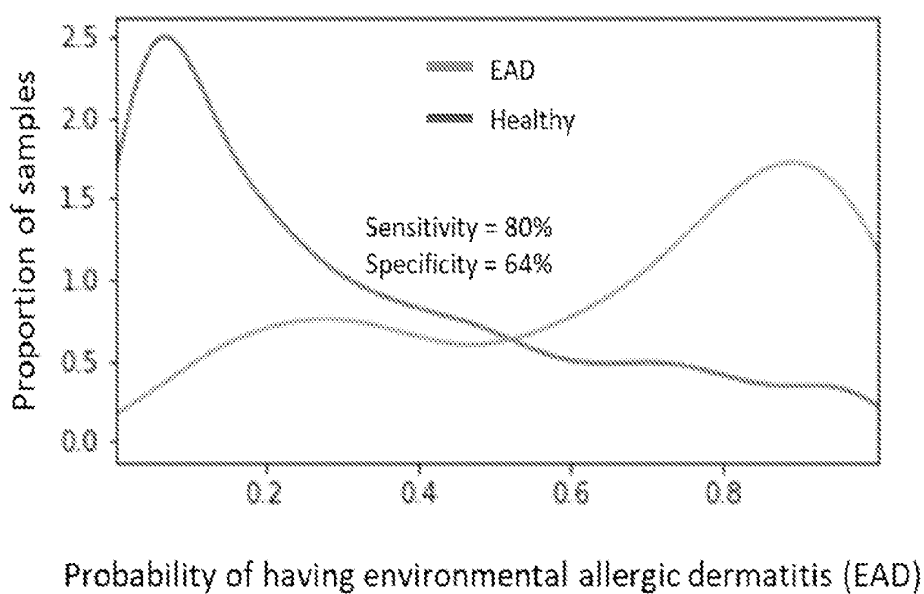
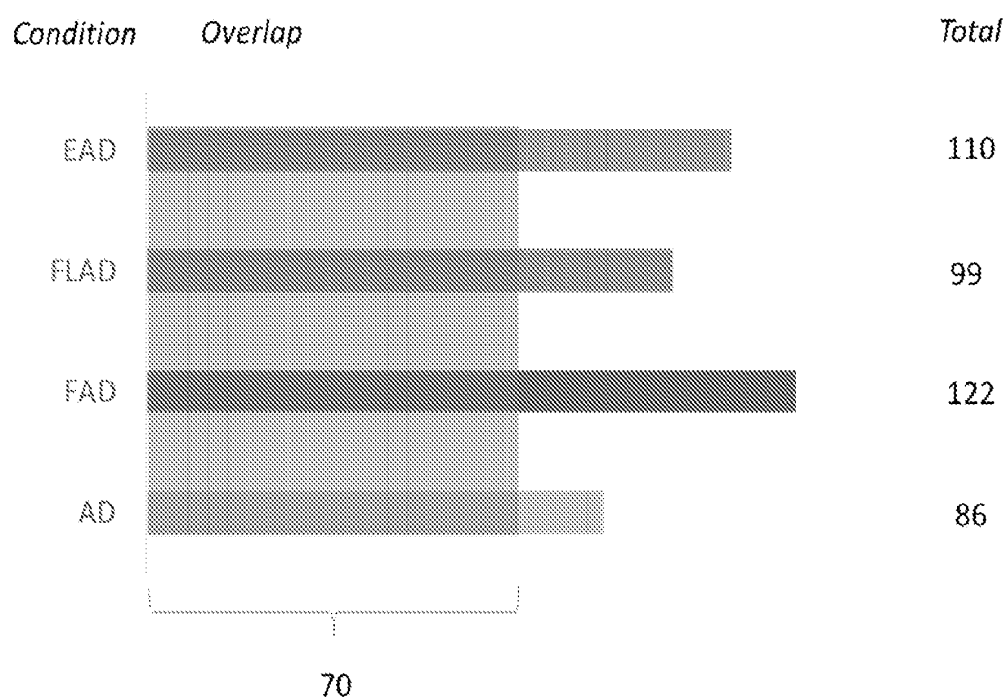


FIG. 3D

Sensitivity = percentage known positive samples classified as medium or high risk

Specificity = percentage known negative samples classified as low risk

Overlap of predictive microbes between feline AD, FAD, FLAD and EAD**FIG. 4**

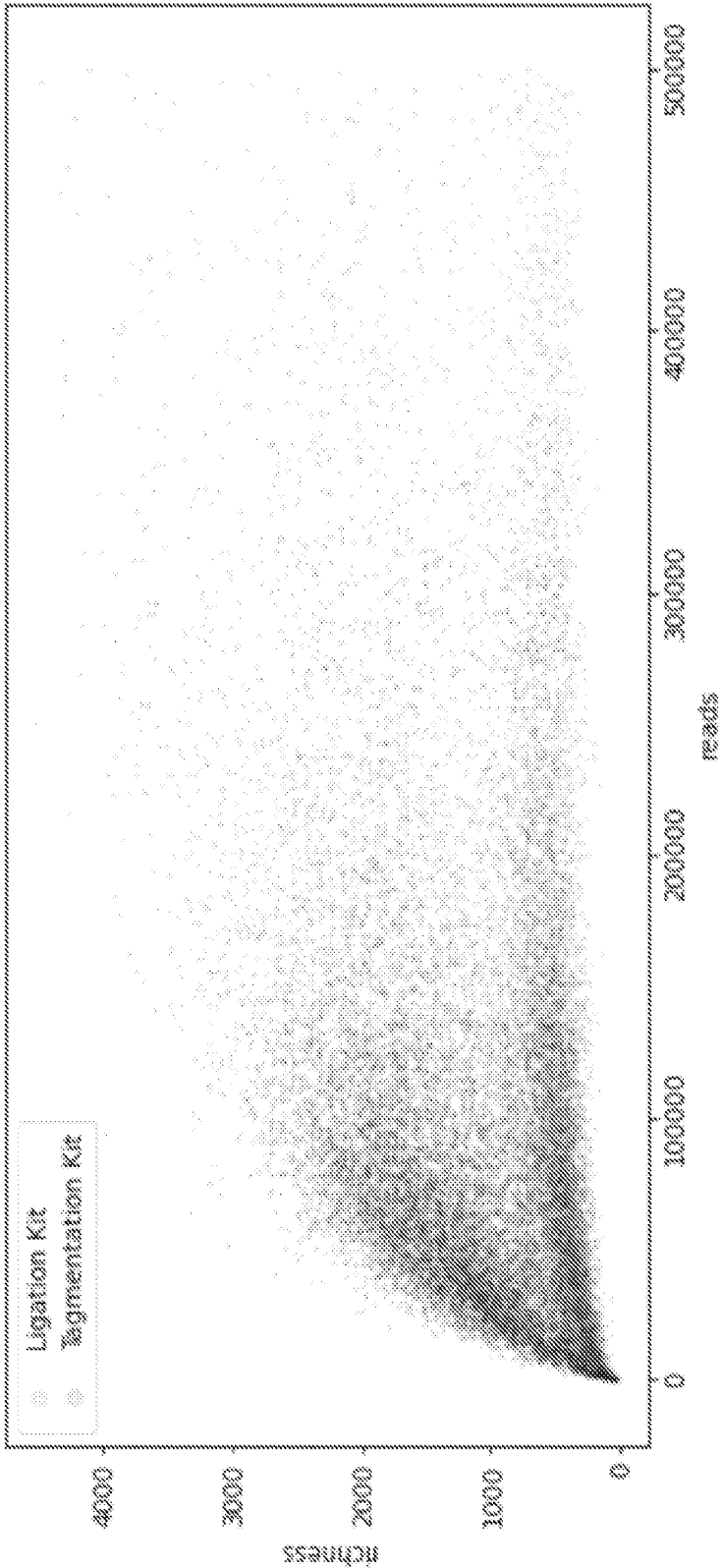


FIG. 5

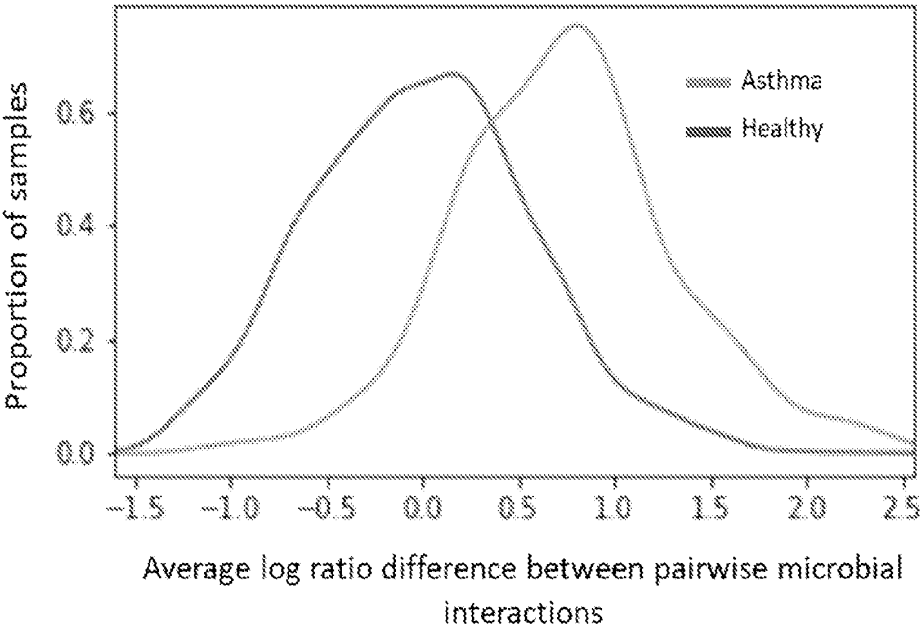


FIG. 6

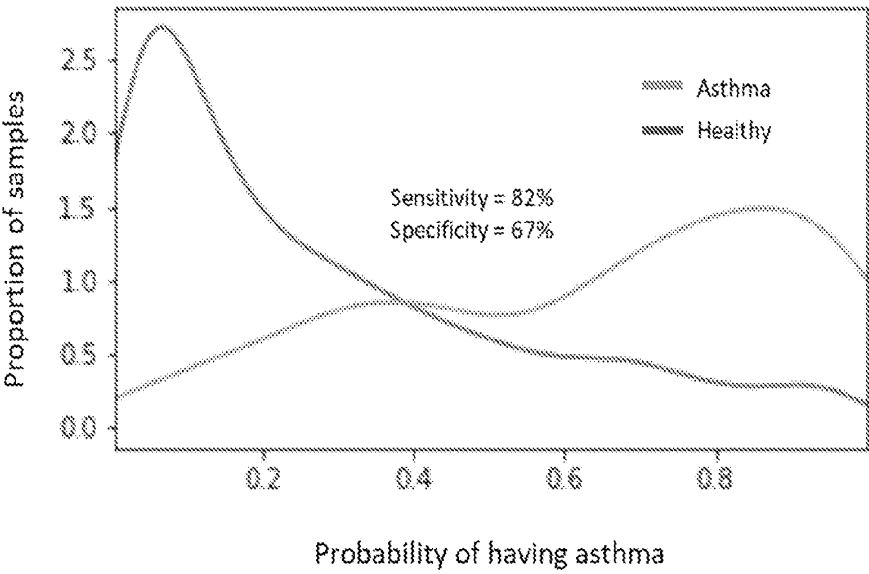


FIG. 7