

True Label

|                       |   |                     |        |                      |          |          |                    |     |      |      |      |       |            |                       |
|-----------------------|---|---------------------|--------|----------------------|----------|----------|--------------------|-----|------|------|------|-------|------------|-----------------------|
| O                     | 0 | 9                   | 11     | 18                   | 12       | 29       | 2                  | 54  | 12   | 0    | 10   | 6     | 20         | 2                     |
| anatomical location   | 0 | 72                  | 0      | 0                    | 0        | 0        | 0                  | 0   | 0    | 0    | 0    | 0     | 0          | 0                     |
| animal                | 0 | 0                   | 72     | 0                    | 0        | 0        | 0                  | 0   | 0    | 0    | 0    | 0     | 0          | 0                     |
| biomedical technique  | 0 | 0                   | 0      | 21                   | 0        | 0        | 1                  | 1   | 0    | 0    | 0    | 0     | 0          | 0                     |
| bacteria              | 0 | 0                   | 0      | 0                    | 47       | 0        | 0                  | 0   | 0    | 0    | 0    | 0     | 0          | 0                     |
| chemical              | 0 | 0                   | 0      | 0                    | 0        | 110      | 0                  | 0   | 0    | 0    | 3    | 0     | 0          | 0                     |
| dietary supplement    | 0 | 0                   | 0      | 0                    | 1        | 0        | 24                 | 0   | 0    | 0    | 0    | 0     | 0          | 0                     |
| DDF                   | 0 | 0                   | 1      | 0                    | 0        | 0        | 0                  | 329 | 0    | 0    | 0    | 0     | 0          | 0                     |
| drug                  | 0 | 0                   | 0      | 0                    | 0        | 0        | 0                  | 0   | 52   | 0    | 0    | 0     | 0          | 0                     |
| food                  | 0 | 0                   | 0      | 0                    | 0        | 0        | 15                 | 0   | 0    | 9    | 0    | 0     | 0          | 0                     |
| gene                  | 0 | 0                   | 0      | 0                    | 0        | 30       | 0                  | 0   | 0    | 0    | 9    | 0     | 0          | 0                     |
| human                 | 0 | 0                   | 0      | 0                    | 0        | 0        | 0                  | 0   | 0    | 0    | 0    | 82    | 0          | 0                     |
| microbiome            | 0 | 0                   | 0      | 0                    | 0        | 0        | 0                  | 0   | 0    | 0    | 0    | 0     | 120        | 0                     |
| statistical technique | 0 | 0                   | 0      | 0                    | 0        | 0        | 0                  | 0   | 0    | 0    | 0    | 0     | 0          | 2                     |
|                       | O | anatomical location | animal | biomedical technique | bacteria | chemical | dietary supplement | DDF | drug | food | gene | human | microbiome | statistical technique |

Predicted Label