

## Supplementary Material

**Table S1.** Microbial colony count from rhizosphere soil on day 1 (initial count) and day 120 (final count) of the study.

| Soil treatment                                                         | Total heterotrophic bacteria ( $\times 10^5$ cfu/g) |                   |                   | Total hydrocarbon utilizing bacteria ( $\times 10^5$ cfu/g) |                 |                 | Total fungi ( $\times 10^5$ cfu/g) |                 |                 |
|------------------------------------------------------------------------|-----------------------------------------------------|-------------------|-------------------|-------------------------------------------------------------|-----------------|-----------------|------------------------------------|-----------------|-----------------|
|                                                                        | 0%                                                  | 4%                | 8%                | 0%                                                          | 4%              | 8%              | 0%                                 | 4%              | 8%              |
| Initial count                                                          | 21.00 $\pm$ 0.01                                    | 13.00 $\pm$ 0.02  | 1.00 $\pm$ 0.00   | 0.10 $\pm$ 0.08                                             | 2.50 $\pm$ 0.02 | 3.00 $\pm$ 0.03 | 0.80 $\pm$ 0.02                    | 1.60 $\pm$ 0.01 | 2.60 $\pm$ 0.08 |
| Final count in soil with <i>G. max</i>                                 | 45.00 $\pm$ 0.05                                    | 25.00 $\pm$ 0.03  | 19.00 $\pm$ 0.05  | 1.50 $\pm$ 0.02                                             | 4.20 $\pm$ 0.09 | 4.90 $\pm$ 0.02 | 0.80 $\pm$ 0.01                    | 0.10 $\pm$ 0.00 | 0.75 $\pm$ 0.02 |
| Final count in soil with <i>Z. mays</i>                                | 30.00 $\pm$ 0.09                                    | 29.00 $\pm$ 0.01  | 24.00 $\pm$ 0.03  | 1.20 $\pm$ 0.01                                             | 4.90 $\pm$ 0.06 | 5.20 $\pm$ 0.03 | 3.00 $\pm$ 0.03                    | 1.20 $\pm$ 0.04 | 0.75 $\pm$ 0.03 |
| Final count in soil with <i>G. max</i> + <i>Z. mays</i>                | 90.00 $\pm$ 0.02                                    | 20.00 $\pm$ 0.05  | 18.00 $\pm$ 0.04  | 2.00 $\pm$ 0.12                                             | 5.70 $\pm$ 0.12 | 5.50 $\pm$ 0.03 | 2.40 $\pm$ 0.03                    | 0.60 $\pm$ 0.03 | 0.90 $\pm$ 0.04 |
| Final count in soil with <i>Z. mays</i> + poultry dung                 | 140.00 $\pm$ 0.2                                    | 29.50 $\pm$ 0.05  | 21.00 $\pm$ 0.04  | 1.20 $\pm$ 0.01                                             | 6.50 $\pm$ 0.11 | 6.00 $\pm$ 0.50 | 2.50 $\pm$ 0.02                    | 1.20 $\pm$ 0.25 | 0.70 $\pm$ 0.01 |
| Final count in soil with <i>G. max</i> + poultry dung                  | 35.00 $\pm$ 0.06                                    | 30.00 $\pm$ 0.07  | 22.00 $\pm$ 0.06  | 2.00 $\pm$ 0.01                                             | 5.70 $\pm$ 0.20 | 5.30 $\pm$ 0.01 | 1.20 $\pm$ 0.09                    | 0.70 $\pm$ 0.05 | 0.95 $\pm$ 0.12 |
| Final count in soil with <i>G. max</i> + <i>Z. mays</i> + poultry dung | 360.00 $\pm$ 0.3                                    | 312.0 $\pm$ 0.18  | 200.00 $\pm$ 0.1  | 2.30 $\pm$ 0.01                                             | 6.00 $\pm$ 0.08 | 5.30 $\pm$ 0.01 | 1.20 $\pm$ 0.01                    | 2.20 $\pm$ 0.00 | 0.40 $\pm$ 0.03 |
| Final count in soil only                                               | 122.50 $\pm$ 0.1                                    | 50.00 $\pm$ 0.07  | 38.00 $\pm$ 0.02  | 1.20 $\pm$ 0.02                                             | 4.30 $\pm$ 0.01 | 3.70 $\pm$ 0.09 | 2.00 $\pm$ 0.02                    | 0.20 $\pm$ 0.00 | 0.30 $\pm$ 0.02 |
| Final count in soil with poultry dung                                  | TNTC                                                | 600.00 $\pm$ 0.50 | 402.00 $\pm$ 0.30 | 1.7 $\pm$ 0.019                                             | 3.30 $\pm$ 0.01 | 2.80 $\pm$ 0.03 | 2.30 $\pm$ 0.02                    | 1.20 $\pm$ 0.01 | 1.00 $\pm$ 0.01 |

All data are mean $\pm$ standard error. Initial colony count was on day 1 immediately after crude oil treatment while final colony count was on day 120. TNTC = too numerous to count.