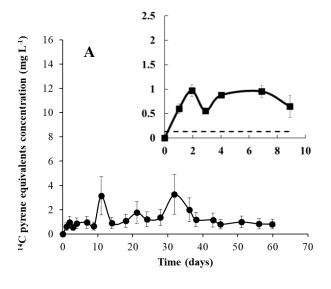
## **Supporting Information**

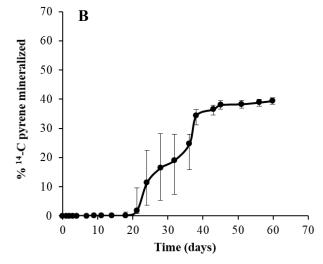
Root-mediated bacterial accessibility and cometabolism of pyrene in soil

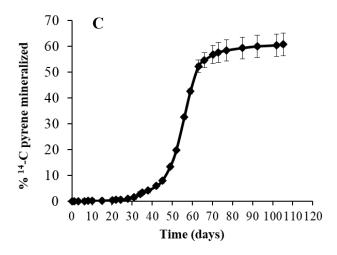
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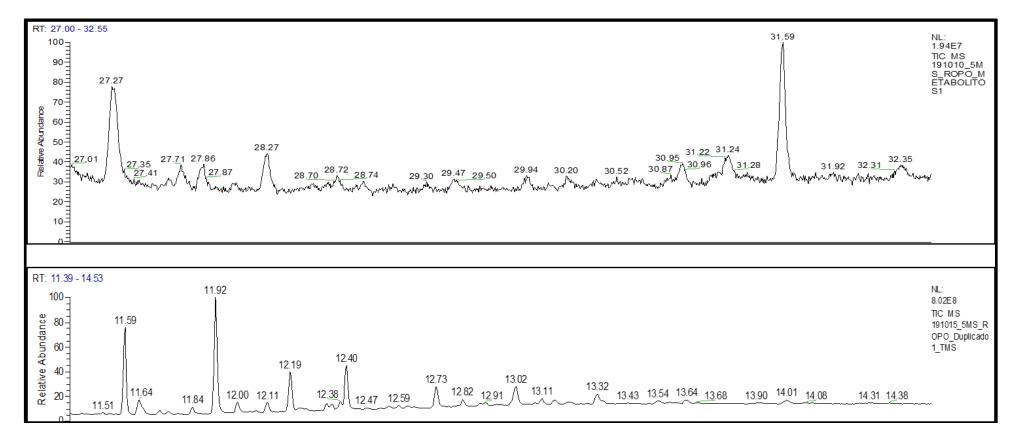
**Figure S1.** Evolution over time of the equivalents of <sup>14</sup>C-pyrene in the aqueous phase for noninoculated soil slurries (A, includes an expanded figure with the same axis labels in the top right of this figure), mineralization of <sup>14</sup>C-pyrene in noninoculated soil slurries (B) and mineralization of <sup>14</sup>C-pyrene in noninoculated soil in solid-phase conditions (C).







**Figure S2**. GC chromatograms of non-derivatized (A) and derivatized (B) samples obtained from *Pseudomonas putida* G7 cultures after a period of incubation of one week in presence of pyrene.



**Table S1.** Mineralization of <sup>14</sup>C-labeled pyrene in soil under laboratory conditions.

Conditions	<b>Rate</b> (% day <sup>-1</sup> )	Extent (%)	
Inoculated soil slurry	$4.35\pm0.81$	$42.04 \pm 13.0$	
Noninoculated soil slurry	$4.47 \pm 0.42$	39.69 ± 2.09	
Bacterial suspension without soil	$0.006 \pm 0.002$ $0.006 \pm 0.001$		
Noninoculated soil, solid-phase conditions	$3.17 \pm 0.09$	$60.75 \pm 8.7$	

Table S2. Maximum and average plant number per pot in each assayed treatment

Pot number	inoculated	<sup>14</sup> C-pyrene + <sup>12</sup> C-pyrene	<sup>12</sup> C-pyrene	maximum plant number per pot	average plant number per pot along the experiment
1	+	+	+	8	5
2	+	+	+	5	3
3	-	+	+	7	5
4	-	+	+	7	5
7	+	-	+	4	3
8	+	-	+	5	4
9	-	-	+	6	5
10	-	-	+	7	6