

SCIENTIFIC REPORTS

OPEN

Corrigendum: Indole-3-Acetic Acid Produced by *Burkholderia helea* Acts as a Phenylacetic Acid Antagonist to Disrupt Tropolone Biosynthesis in *Burkholderia plantarii*

Mengcen Wang, Seiji Tachibana, Yuta Murai, Li Li, Sharon Yu Ling Lau, Mengchao Cao, Guonian Zhu, Makoto Hashimoto & Yasuyuki Hashidoko

Scientific Reports 6:22596; doi: 10.1038/srep22596; published online 03 March 2016; updated on 20 May 2016

In this Article, the compound '(R)-(-)-2-phenylpropionic acid' was incorrectly given as '(R)-(-)-2-methylphenylpropionic acid'. In the Results section under subheading 'Interference of the tropolone biosynthetic pathway of *B. plantarii* by PAA analogues',

"Among the PAA analogues tested, *p*-tolylacetic acid, (R)-(-)-2-methylphenylpropionic acid, and (*p*-isopropylphenyl)acetic acid inhibited tropolone production as effectively as IAA at the same concentration (Figure 6)."

should read:

"Among the PAA analogues tested, *p*-tolylacetic acid, (R)-(-)-2-phenylpropionic acid, and (*p*-isopropylphenyl)acetic acid inhibited tropolone production as effectively as IAA at the same concentration (Figure 6)."

The correct Figure 6 and its accompanying legend appear below as Figure 1.

Eight compounds, i.e., 3-pyridylacetic acid HCl (A), 4-hydroxyphenylacetic acid (B), 1-imidazoleacetic acid (C), *p*-tolylacetic acid (D), (*p*-isopropylphenyl)acetic acid (E), (R)-(-)-2-phenylpropionic acid (F), (\pm)-2-phenylbutyric acid (G), and (S)-(-)-3-phenyllactic acid (H), along with indole-3-acetic acid (IAA) (I) as positive control, were tested on *B. plantarii*-impregnated gellan plates, in which Winogradsky's mineral mixture supplemented with 50 g L⁻¹ sucrose, 500 mg L⁻¹ yeast extract, and 0.1 mM Fe₂(SO₄)₃ was solidified with 10 g L⁻¹ gellan gum. An MeOH solution of each test compound prepared at 0.1, 1, 10, and 100 mM was loaded on a paper disk for the assay, and the absolute amount of the test compound on each paper disc is shown in a sub-table in the panel. The sub-number shows the absolute amount of the compound loaded (e.g. A2 is 3-pyridylacetic acid ·HCl at 100 nmol). CT is the control (MeOH only). Red arrows on the plate photograph indicate tropolone inhibition zone.

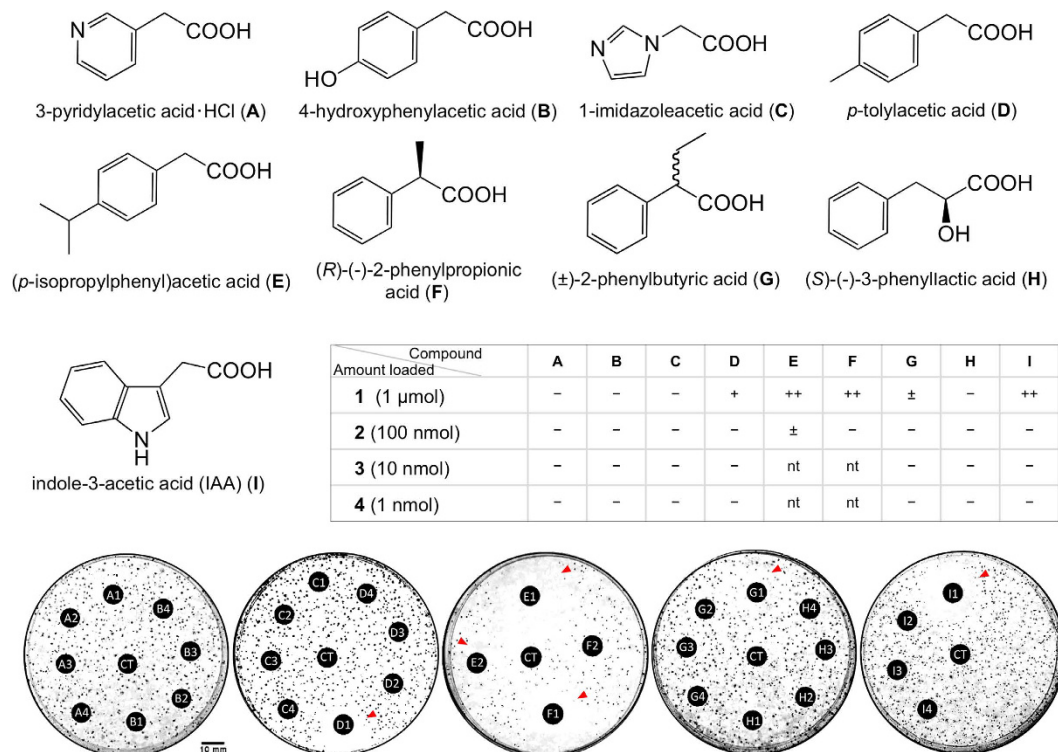



Figure 1.

 This work is licensed under a Creative Commons Attribution 4.0 International License. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in the credit line; if the material is not included under the Creative Commons license, users will need to obtain permission from the license holder to reproduce the material. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>