

SUPPLEMENTAL INFORMATION

Plant Hormone Quantification: IAA and SA Extraction and Quantification

Materials

Indole-3-acetic acid (IAA) and salicylic acid (SA) were purchased from Sigma-Aldrich (St. Louis, MO) and Acros Organics (Geel, Belgium), respectively. Isotope-labeled internal standards d_4 -salicylic acid (d_4 -SA) and indole-2,4,5,6,7- d_5 -3-acetic acid (d_5 -IAA) were sourced from CDN Isotopes (Pointe-Claire, Quebec). Methanol and acetonitrile (HPLC-grade) were sourced from J.T. Baker (Avantor Performance Materials) and LC-MS grade water was purchased from Honeywell Research Chemicals. Individual stock solutions of unlabeled and labeled compounds were prepared in 50% methanol and stored at $-80\text{ }^{\circ}\text{C}$. Standard solutions were prepared fresh in 30% methanol in the linear concentration ranges of 32 pM to 10 μM . An internal standard solution was prepared in 30% methanol containing 2.5 μM d_5 -IAA and d_4 -SA.

Plant Hormone Extraction

Frozen plant material was extracted with 900 μL of extraction solvent (ice-cold acetonitrile/methanol; 1:1 v:v) while samples were kept cold on ice. Ten (10) microliters of the internal standard mixture and two stainless steel 5 mm beads were added to each sample tube followed by brief mixing by vortexing. Samples were placed in pre-cooled ($-80\text{ }^{\circ}\text{C}$) Tissue Lyser II racks and homogenized for 2 min at 15 Hz. Samples were centrifuged at full speed for 5 min at $4\text{ }^{\circ}\text{C}$, then the supernatant was transferred to a new 2 mL tube. Samples were re-extracted with another 900 μL of extraction solvent, and then homogenized again for 2 min at 15 Hz. The

samples were then centrifuged and supernatant transferred as previously described. The extraction solvent was removed under reduced pressure with a speed-vac until completely dry. Samples were reconstituted in 30 % MeOH (200 μ L) and mixed thoroughly for 30 min at 4 °C. Finally, samples were filtered through 0.8 μ m PES spin-filters and 40 μ L of clarified supernatant was transferred to a 96-well microplate. Two (2) μ L of sample was injected onto the column.

LC-MS/MS Instrumentation

Clarified samples were analyzed on an Eksigent ekspert™ microLC 200 coupled to a Sciex 6500 QTrap® (Framingham, MA) operated with polarity-switching electrospray ionization. The LC separation was achieved using a Waters (Milford, MA) Acquity UPLC® BEH C18 1.0 \times 100 mm, 1.7 μ m column kept at 50 °C with a flow rate of 15 μ L/min while the autosampler was set at 8 °C. The mobile phases were 0.1 % acetic acid and 3:1 acetonitrile:methanol containing 0.1 % acetic acid running a gradient of 20 % B for 4 minutes ramping to 70 % B at 7 minutes, increasing to 95 % B at 7.5 minutes, holding for 5.5 minutes, then re-equilibrate at initial conditions at 13.5 minutes for 10 minutes (total runtime is 23.5 minutes). Data analysis was completed using MultiQuant 3.0.2 (AB Sciex) by normalizing the peak areas of the unlabeled analytes relative to the peak areas of the labeled internal standards. Calibration curves were linear (r values = > 0.99) within the ranges provided above applying a 1/x weighting scheme.

Compound-dependent parameters

Compound	MRM Transition	Retention time (min)	DP (V)	EP (V)	CE (V)	CXP (V)
IAA	176.0 → 130.0	10.24	23	7	40	19
d ₅ -IAA	181.0 → 134.0	10.22	23	7	25	19
SA	137.0 → 93.0	10.20	-22	-13	-20	-10
d ₄ -SA	141.0 → 97.0	10.18	-41	-9	-23	-11

Source settings

Ionspray voltage: polarity switching between -4500 V in -ve to 4500 V in +ve

Curtain gas: 15

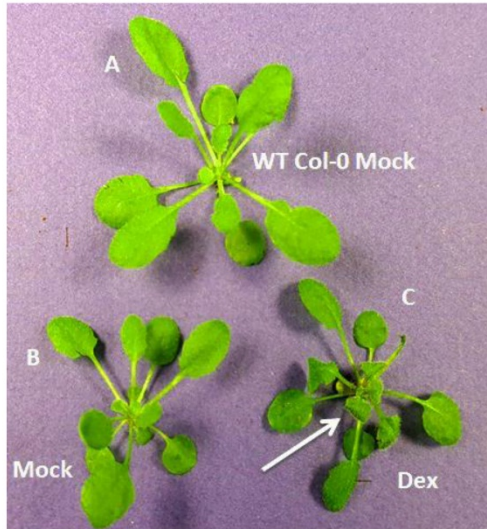
Gas 1: 35

Gas 2: 35

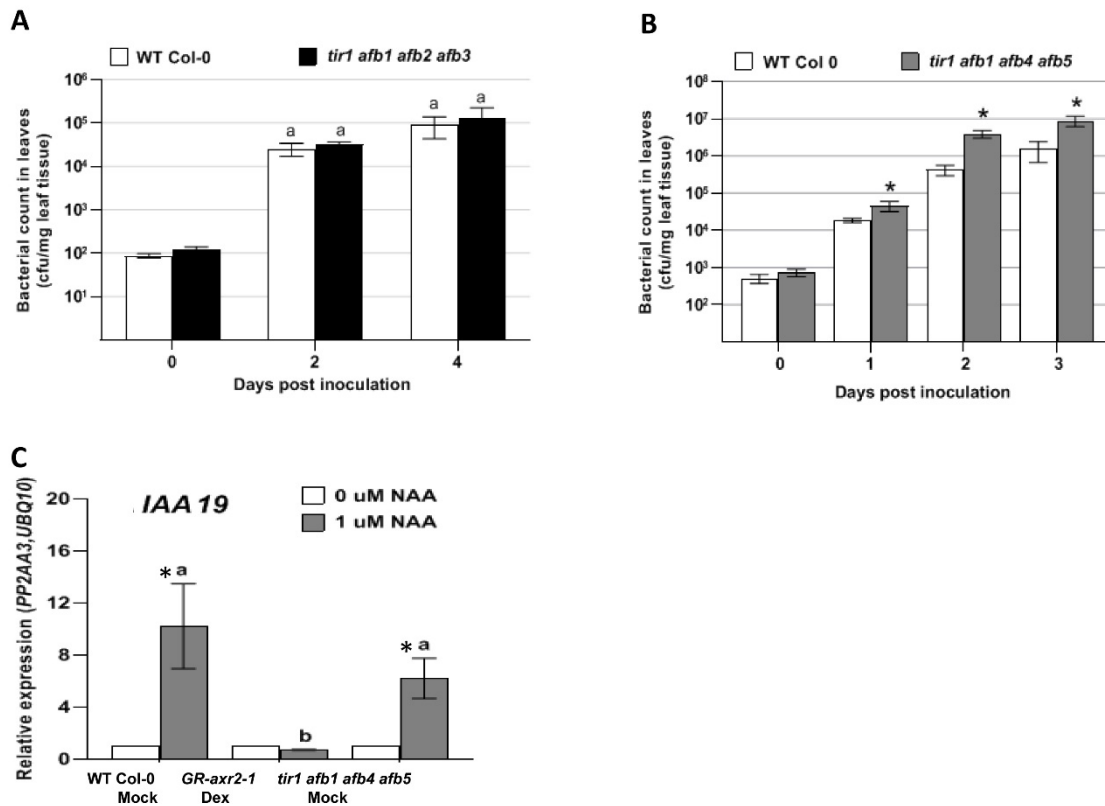
Supplemental Table 1 Primers used in this study

Gene	Forward primer (5'-3')	Reverse primer (5'-3')	Reference for primers
<i>GH3.3</i>	TGTGTGAGTTTCACGCCAAT	CAAAGGAGGGACAGAGTGGA	(32)
<i>AT2G23170</i>			
<i>IAA19</i>	GAGATGTGGCAGAGAAGATG	TTCCTCAAATAAGGCACACC	(32)
<i>AT3G15540</i>			
<i>PR1</i>	GGAGCTACGCAGAACAATAAGA	CCCACGAGGATCATAGTTGCAACTGA	(32)
<i>AT2G14610</i>			
<i>PP2AA3</i>	AACGTGGCCAAAATGATG	AACCGCTTGGTCGACTATCG	(61)
<i>AT1G13320</i>			
<i>UBQ10</i>	CGTTAAGACGTTGACTGGGAAAAC	GCTTTCACGTTATCAATGGTGTCA	(61)
<i>At4g05320</i>			
<i>avrPto</i>	ATGACGGGAGCGTCAGGAATCAAT	ATCCGTTGGGTTTCATAGTCGCAA	(30)
<i>PSPTO_4001</i>			
<i>HrpL</i>	TCAGGAAAGCTGGGAAGAC-GAAGT	ATGTTTCGACGGCAGGCAATCAATG	(30)
<i>PSPTO_1404</i>			
<i>mqa</i>	GCGGCTGATGGCTCCATCGAC	CGGGACCGGATTGATGAACGAC	This work
<i>PSPTO_1136</i>			
<i>cmaA</i>	CCGTGATGTTTACCTCTGGCAC	GGACGAGTGATGTACGTAGCTGC	This work
<i>PSPTO_4709</i>			
<i>hcp1</i>	GGTCGACGCAGGCATAACGC	CTCCTTGCCGTCGTTAGTGCG	This work
<i>PSPTO_2539</i>			
<i>tvrR</i>	GGCTCGCAACGGCCCATCTG	CATGCGGTAGACGGCCAGCG	This work
<i>PSPTO_3576</i>			
<i>PSPTO_5415</i>	GCCAGGAAGGGCATGTGCTG	AATCCCTTGATGACCGGCACG	This work
<i>16S rRNA</i>	TAATGGCTCACCAAGGCGACG	TGGCTGGATCAGGCTTTCGC	This work
<i>PSPTO_r01</i>			
<i>rpoD</i>	GAAGTTGACGAAAGCTGGACCG	CGACGGTTGATGCCTTGATCTC	This work
<i>PSPTO_0537</i>			
<i>gyrB</i>	CTTCAGCTGGGACATTCTGGC	AACCGCCTTCGTACTIONGAACAG	This work
<i>PSPTO_0004</i>			
<i>recA</i>	TAGAACTTCAGCGCGTTACC	GCCAACTGCCTGGTTATCT	(36)
<i>PSPTO_4033</i>			
Genotyping (PCR) and Cloning			
<i>sid2-2 sm108F</i>	TTCTTCATGCAGGGGAGGAG	AAGCAAAATGTTTGAGTCAGCA	(32)
<i>WT- Sm30F</i>	CAACCACCTGGTGACCCAGC		
<i>GR-axr2-1</i>	GR: GCCATCGTCAAAGGGAAGG		This work
<i>axr2</i>		TGACTCTAACTCGGTAAGGTTTCAT	This work
<i>TopoGW_GR_F1</i>	CACCATGATTCAGCAAGCCACTGC		This work
<i>GR_AXR2_R1</i>		TGAGGTTTCATAAGTTGGCCGAT CATTTTTTGATGAAACAGAAGCT	This work
<i>GR_AXR2_F1</i>	AGCTTCTGTTTCATCAAAAAATG ATCGGCCAACTTATGAACCTCA		This work
<i>AXR2_V1_R1</i>		TCAAGATCTGTTCTTGCACTACT	This work

Supplemental Figures

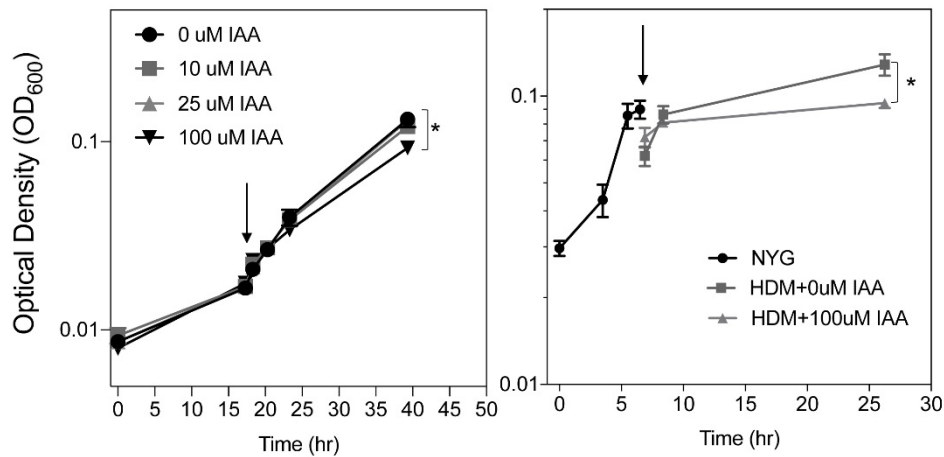


Supplemental Fig. 1. Dex treatment of *GR-axr2-1* transgenic plants results in abnormal leaf morphology. (A) WT Col-0; (B) and (C) *GR-axr2-1* transgenic plants, 1 day after spraying with 0.1 % Ethanol (Mock) or 10 mM Dexamethasone in 0.1 % Ethanol (Dex). Arrow indicates curled leaves that did not expand normally.



Supplemental Fig. 2. Growth of *PtoDC3000* and expression of auxin-responsive genes *IAA19* in auxin receptor mutants.

(A) Growth of *PtoDC3000* in the *tir1afb1afb2afb3* mutant. Similar results were observed in 3 additional independent experiments. **(B)** Growth of *PtoDC3000* in WT Col-0 and *tir1afb1afb4afb5* plants. Values are an average \pm SEM for data from 4 biological replicates (leaves) for day 0 and 8 replicates for days 1, 2, and 3. Results were analyzed using ANOVA, followed by a Tukey's post test, and asterisks (*) indicates significant differences between WT Col-0 and *tir1afb1afb4afb5* (4X) mutant plants with $P < 0.05$ at each time point. Plants were inoculated with a bacterial suspension of 10^6 cfu ml⁻¹. Samples from this experiment were used for gene expression experiments shown in Fig. 5. **(C)** Expression of the auxin-responsive gene *IAA19* after NAA treatment. Values are an average \pm SEM for 3 biological replicates for Col-0 WT Mock, *GR-axr2-1* and *tir1afb1afb4afb5*. Samples indicated by different lower-case letters are significantly different ($p < 0.05$). Similar results were obtained in a second independent experiment. * indicates significant difference between treatment (0 and 1 μ M NAA) with $p < 0.05$. Results were analyzed using ANOVA, followed by a Tukey's post test. Samples indicated by different letters are significantly different at $p < 0.05$.



Supplemental Figure 3. Impact of IAA on growth of *PtoDC3000* in culture

(A) Growth of *PtoDC3000* in Hrm De-repressing Medium (HDM) containing the indicated concentrations of IAA. IAA was added to the cultures at mid-log (arrow), and growth was monitored by quantifying cell density (OD₆₀₀) over ~ 24 hours. **(B)** *PtoDC3000* was grown in NYG to an OD of ~0.1, cells were collected via centrifugation, resuspended in NYG or HDM (arrow) containing the indicated concentrations of IAA and grown for ~24 hours. Growth was monitored by quantifying cell density (OD₆₀₀). Cells were collected at 1.5 hours after transfer to HDM for RNA isolation. Cell cultures were grown in triplicate for both experiments. Data points are the average of 3 biological replicates per treatment and error bars represent S.E.M. A student's t-test was performed to compare the effect of the IAA treatments on bacterial growth to Mock treatment with DMSO. * p<0.05 . The data shown in panel B are from cultures used to monitor the effect of IAA on *PtoDC3000* gene expression shown in figure 4.