

## Supplementary Tables and Figures

Role of CrRLK1L cell wall sensors HERCULES1 and 2, THESEUS1, and FERONIA in growth adaptation triggered by heavy metals and trace elements

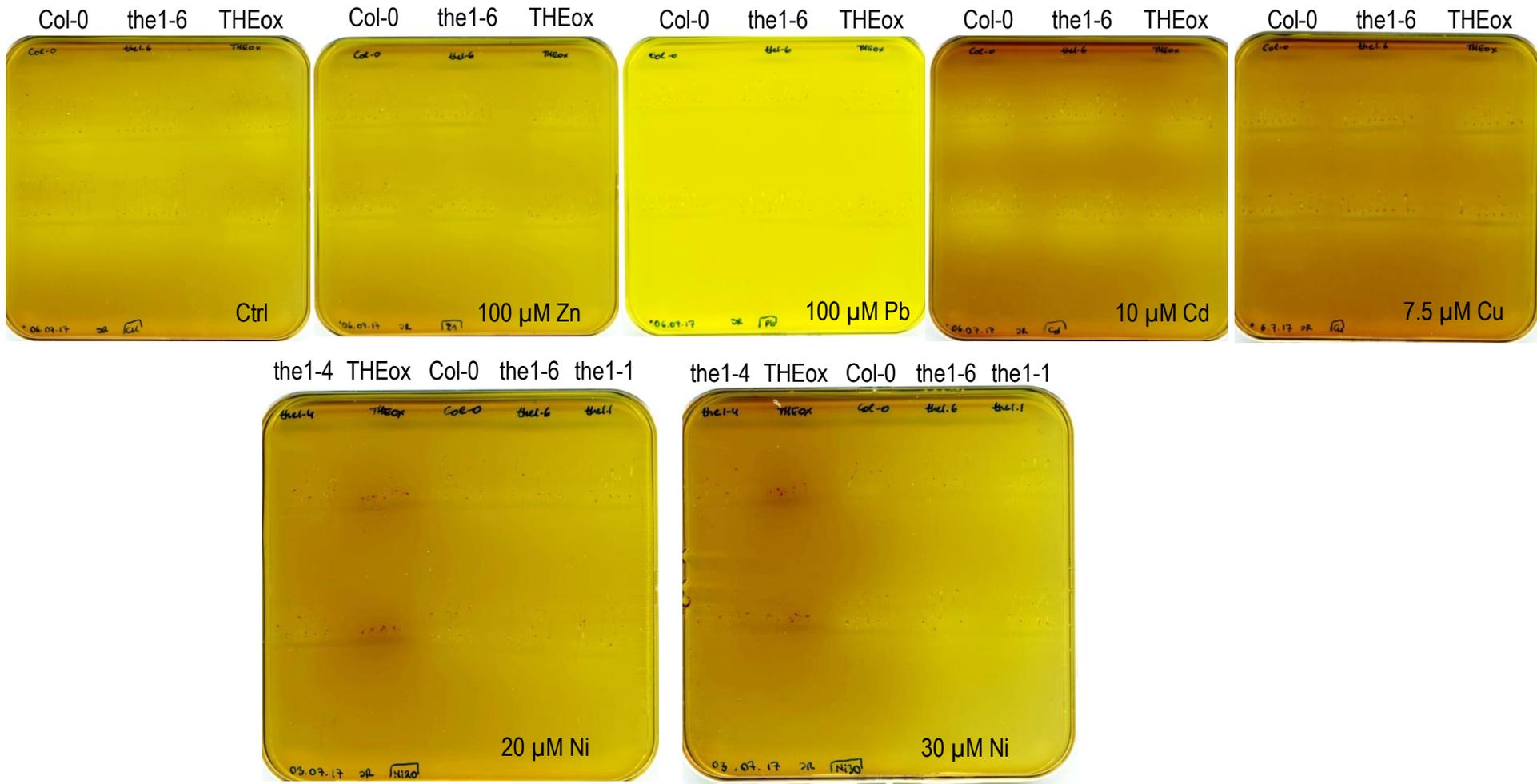
**Supplementary Table 1** Medium compositions

Hoaglands medium	mg/L	1x	1/10
KNO <sub>3</sub>	606.6	6 mM	0.6 mM
Ca(NO <sub>3</sub> ) <sub>2</sub>	656.4	4 mM	0.4 mM
MgSO <sub>4</sub> anhydrous	240.8	2 mM	0.2 mM
NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	115.03	1 mM	0.1 mM
H <sub>3</sub> BO <sub>3</sub>	2.86	46 μM	4.6 μM
Na <sub>2</sub> EDTA·2H <sub>2</sub> O	3.35	12 μM	1.2 μM
MoO <sub>3</sub>	0.016	11 μM	1.1 μM
FeSO <sub>4</sub> ·7H <sub>2</sub> O	2.5	8 μM	0.8 μM
MnCl <sub>2</sub> ·4H <sub>2</sub> O	1.81	9 μM	0.9 μM
ZnSO <sub>4</sub> ·7H <sub>2</sub> O	0.22	0.77 μM	0.077 μM
CuSO <sub>4</sub> ·5H <sub>2</sub> O	0.08	0.32 μM	0.032 μM

MS medium	mg/L	1x
CaCl <sub>2</sub>	332.0	3 mM
KH <sub>2</sub> PO <sub>4</sub>	170	1.3 mM
KNO <sub>3</sub>	1900	18.8 mM
MgSO <sub>4</sub>	180.5	1.5 mM
NH <sub>4</sub> NO <sub>3</sub>	1650	20.6 mM
CoCl <sub>2</sub> ·6H <sub>2</sub> O	0.025	0.1 μM
CuSO <sub>4</sub> ·5H <sub>2</sub> O	0.025	0.1 μM
FeNaEDTA	36.7	100 μM
H <sub>3</sub> BO <sub>3</sub>	6.2	100.3 μM
KI	0.83	5.0 μM
MnSO <sub>4</sub> ·H <sub>2</sub> O	16.9	100 μM
Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O	0.25	1.0 μM
ZnSO <sub>4</sub> ·7H <sub>2</sub> O	8.6	29.9 μM

**Supplementary Table 2** Primers for RT-qPCR

<b>Gene name</b>	<b>AGI number</b>	<b>forward 5'-3'</b>	<b>reverse 5'-3'</b>
<b>AP2M</b> clathrin adaptor complex subunit	At5g46630	GTTTGGGAGAAGAGCGGTTA	CTGATGTCACTGAACCTGAACTG
<b>FER</b>	At3g51550	AGTTTGCTGAAACCGCGATG	TGGAGCTGCAACGCAAATTC
<b>THE1</b>	At5g54380	TTCGGTGGTCTTTGTCAACG	AACGCCAAAGCTTGATCAGG
<b>HERK1</b>	At3g46290	TTCAGCCATTGGTTCGTTGC	TCGAAAACGGCATCCAAGTC
<b>EDGP</b> dermal glycoprotein- like	At5g19110	CTACAATGCTCTTGCTCAGTC	ACCGTCGATAAACGCCAAAC
<b>TUB9</b>	At4g20890	GTACCTTGAAGCTTGCTAATCCTA	GTTCTGGACGTTTCATCATCTGTTC



**Figure S1** pH indicator experiments of THE1 alleles on control and metalloid containing media.