

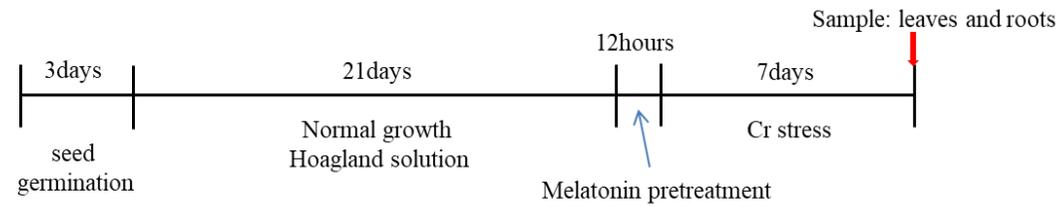
Table S1. Melatonin and Cr induced changes in genes transcripts involved in heavy metal transport

Transcript_ID	Annotation	R-Cr VS R-C	R-Cr+M VS R-Cr
<i>Zm00001d027884</i>	<i>heavy metal ATPase2</i>	1.56	-1.23
<i>GRMZM2G029951</i>	<i>heavy metal ATPase4</i>	1.78	-1.09
<i>Zm00001d015829</i>	<i>heavy metal ATPase4</i>	2.31	-1.84

Table S3. Gene specific primers used in this study

Primer name	Transcript_ID or GenBank accession no.	Annotation	Forward	Reverse
<i>ZmUbi-2-RT</i>	NM_001329666.1	Polyubiquitin	TGGTTGTGGCTTCGTTGGTT	GCTGCAGAAGAGTTTTGGGTACA
<i>ZmGAUT-RT</i>	<i>Zm00001d009808</i>	<i>Galacturonsyl-transferase</i>	AGTTACTGCCTCTGGTCT	CACTCTGCCTTGTATGGA
<i>ZmPME-RT</i>	<i>Zm00001d005465</i>	<i>Pectin methylesterase</i>	GCAAGGACCTGCCCAAGAAC	CGGATGCCTCGGTGATGAG
<i>ZmSAT-RT</i>	<i>Zm00001d038737</i>	<i>Serine acetyltransferase</i>	AGTCGGAGGACGACGAGACC	GAGGAGGCAGTGGGAGAAGC
<i>ZmGST-RT</i>	<i>Zm00001d010870</i>	<i>Glutathione S-transferase</i>	GACCTCACGCTCTTTGAATCCC	GCGAAGCACTCCACCACGAT
<i>ZmSOD-RT</i>	<i>Zm00001d029170</i>	<i>Superoxide dismutase</i>	GGTGAAGGCTGTTGCTGT	CTCTGCCAATGATTGAGTTT
<i>ZmAPX-RT</i>	<i>Zm00001d023582</i>	<i>Ascorbate peroxidase</i>	CAAGAACATTACCGAGTGG	CTGGCAAGCTGAAACAGA
<i>ZmNR-RT</i>	<i>Zm00001d031494</i>	<i>Ascorbate peroxidase</i>	TTTTCTGATTCCCTCGTGTT	TCTACTCTTCCTAGCCTTACTG
<i>ZmTDC-RT</i>	<i>Zm00001d024664</i>	<i>Tryptophan decarboxylase</i>	TTCTTCCCGTCCACCAACAG	GGAGACAAGCGTGACGAGCAT

Maize experiment



Arabidopsis thaliana experiment

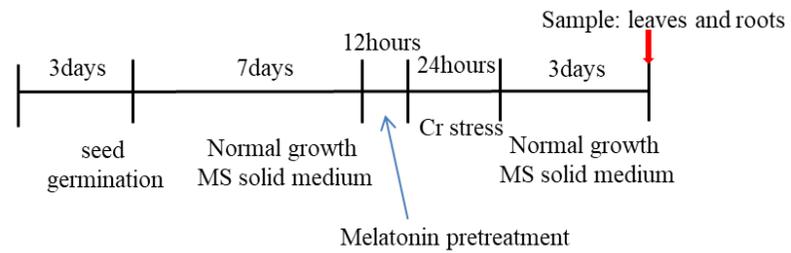


Figure. S1 The scheme of the experiment