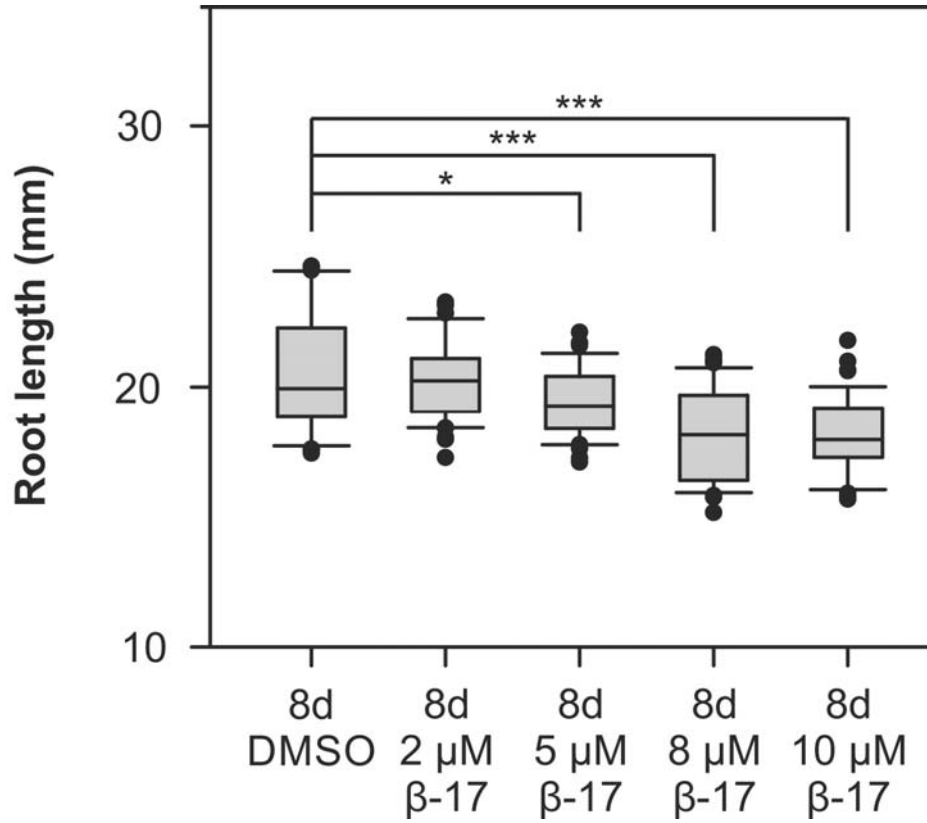


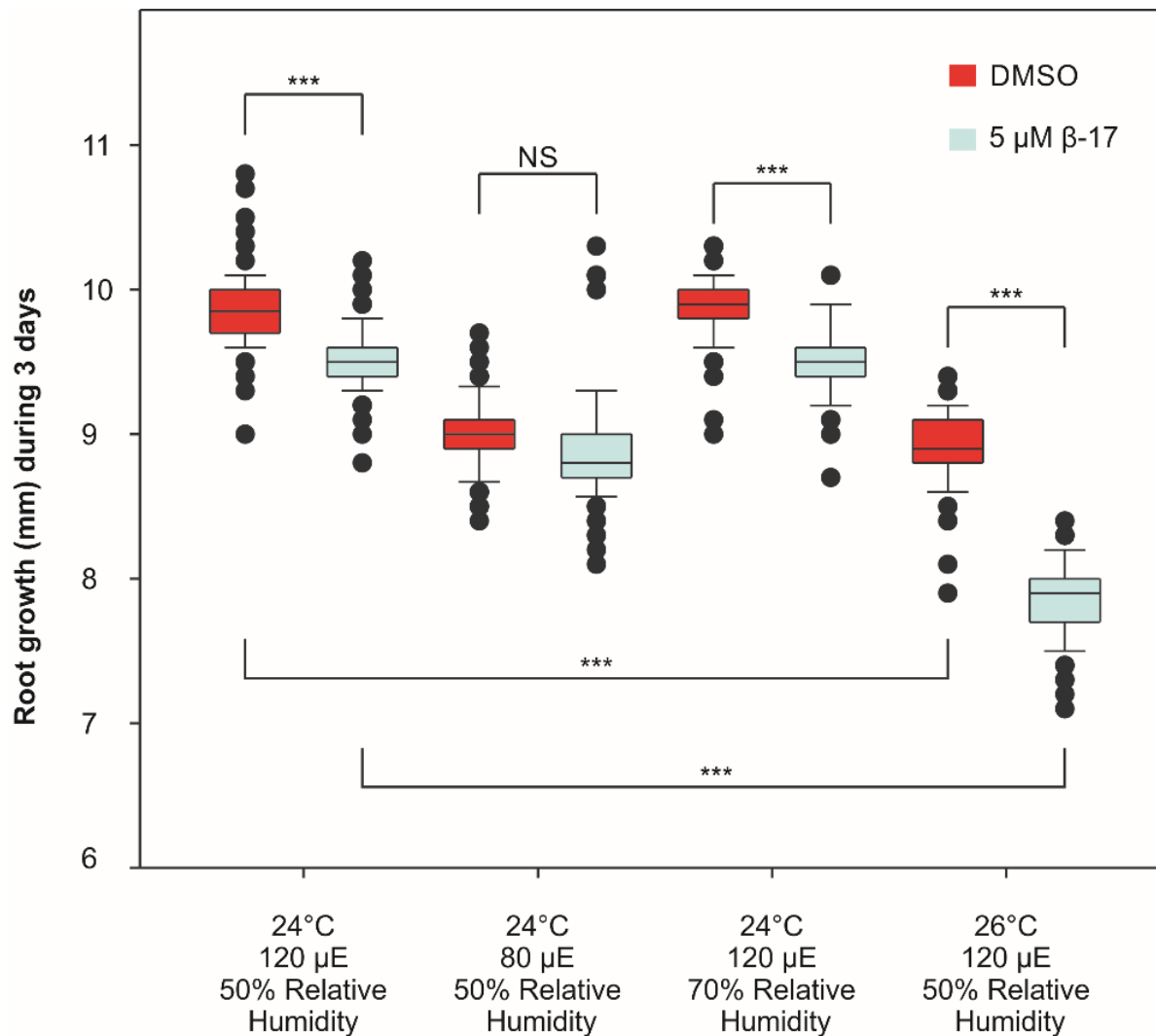
1 **SUPPLEMENTAL MATERIAL**

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9 **Supplemental Figure S1.** Effect of 17-β-estradiol treatment on root growth (in the Purdue University).
10 Root length (millimeters) of Col-0 plants germinated on DMSO solvent control plates or 17-β-estradiol
11 plates (2 μM, 5 μM, 8 μM, 10 μM) and grown for 8, 11 or 13 days. Asterisks indicate significant
12 difference (Mann-Whitney U test): *=P<0.05; **= P<0.01; ***= P<0.001.
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16 **Supplemental Figure S2.** Effect of growth conditions (temperature, light intensity and relative
 17 humidity) on 17- β -estradiol-mediated root growth inhibition. Col-0 seedlings were grown on $\frac{1}{4}$ MS
 18 media for 6 days and transferred on DMSO (red) or 5 μ M 17- β -estradiol (cyan) plates. Root growth (in
 19 millimeters) was measured 72 hours after transfer. Box-plots show the results of three biological
 20 repeats with 32 samples each. Asterisks indicate significant difference (ANOVA with Turkey's *post hoc*
 21 test): ***= P<0.001; NS= Not Significant; microEinstein, μ E. These experiments were performed in the
 22 University of Maryland.

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24 **Supplemental Table S1.** Primers to amplify and clone the inducible promoters

Entry clone	Primers (left, top; right, bottom)
p1R4-p6xUAS:XVE	Cloning explained in Materials and Methods. G1090F-attB4: ggggacaacttgtatagaaaagttgatctgatagtttaactgaaggcgggaaacg; rbcTR-not1: tttgcgccgcggttgggatgtttactcctcatattaactcggtc; nostF-not1: atatgcgccgcacgttcaaacatttggcaataaagttcttaagattg; laxR-attB1: ggggactgctttttgtacaaactgtgctagagtcgactagcttcagcg
p1R4-pAHP6:XVE	aaaactcgagcacggggcgcaaagaagcatgac aaaactcgagccacaacggcacaccgctctg
p1R4-pANT:XVE	p226GII-pANT plasmid was digested with <i>Xho</i> 1 and <i>Sma</i> 1 and the subsequent 5137bp <i>ANT</i> promoter was cloned into <i>Xho</i> 1- <i>Sna</i> B1-digested p1R4-pML:XVE to obtain p1R4-pANT:XVE
p1R4-pAPL:XVE	cgatcgatttatcgaatttagtgtt tctctctctctctctctgactctc
p1R4-pAtSUC2:XVE	tataggcgcgcttcaaggccactataaatttctca tataggtaccatttgacaaaccaagaaagtaaga
p1R4-pCALS3:XVE	ctcagtcgacgatttgagctca ttgtctaccctataacctccag
p1R4-pCCS52A1:XVE	cgaccggtcgaagaagaactgcagctct ccgtacgtatggtttttttttgtgac
p1R4-pCO2:XVE	tataggtaccgggccccctcgag tataagcgctaaaactctgttcattattgtcaaatcctttggca
p1R4-pCYP79B3:XVE	taggtaccgacctcgatgggctcta taggtacctgcaaggaagaaggagaagg
p1R4-pG1090:XVE	Cloning explained in Materials and Methods. G1090F-attB4: ggggacaacttgtatagaaaagttgatctgatagtttaactgaaggcgggaaacg; rbcTR-not1: tttgcgccgcggttgggatgtttactcctcatattaactcggtc; nostF-not1: atatgcgccgcacgttcaaacatttggcaataaagttcttaagattg; laxR-attB1: ggggactgctttttgtacaaactgtgctagagtcgactagcttcagcg
p1R4-pGCI:XVE	tataaccgtaaacaaaatggtgcaaca tatactcgagatttcttgagtagtattt
p1R4-pIRX8:XVE	cgaccggtacgagctgactgtgctgatgag ccgtacgtacgaagaggaaactggatcttacg
p1R4-pLFY:XVE	cgggcgccggatccattttcgaagg cgaccggtctattttctctctctatcac
p1R4-pLexA	By recombining into pDONR 221. Amplified with primers: ggggacaacttgtatagaaaagttgtagctgggctcgaggtcg ggggactgctttttgtacaaactgtgctagagtcgactagcttcagcg
p1R4-pML:XVE	Cloning explained in Materials and Methods. MLF-attB4: ggggacaacttgtatagaaaagttggcgccatcgataccggtgtaccctcgagtacgtaccaattccggcggaatga; rbcTR-not1: tttgcgccgcggttgggatgtttactcctcatattaactcggtc; nostF-not1: atatgcgccgcacgttcaaacatttggcaataaagttcttaagattg; laxR-attB1: ggggactgctttttgtacaaactgtgctagagtcgactagcttcagcg
p1R4-pRCH1:XVE	tattaccggtcgtcagaatccaagaaagctttttcagtacaccac tattctcgagtttcttgcatttggctctcaaatccaaaacaagc
P1R4-pS17:XVE	atatggcgcgctctggattagcgactaaggcta

	taatctcgagcttaatgaccggttaaaattgtt	25
p1R4-pSCR:XVE	aaaactcgagatgaaaagtggaaatttacctggaagtccg aaaactcgaggagattgaagggttgtggtcgtg	26
p1R4-pTHE:XVE	cgaccggtcaccgttccaaggataac ccgtacgtagaaccctaaaacccaattgg	
p1R4-pTMO5:XVE	ttggcgcgccgtgaaacgtcgtgtgggcttc ttgtacctttggtttttggttttagttttgg	
p1R4-pUBQ10:XVE	cggggtaccagtctagctcaacagagct ggactcgagggtattgtttatagaagaagaag	
p1R4-pWER:XVE	aaaactcgagtgaaaggcggccaatac aaaactcgagctttttgttcttgaatgatagacgagagag	
p1R4-pWOL:XVE	Cloning explained in Materials and Methods. G1090F-attB4 : ggggacaactttgtatagaaaagttgatctgatagtttaaactgaaggcgggaaacg; rbcTR-not1 : tttgcgccgcglttgggatgtttactcctcatattaactcggtc; nostF-not1 : atatcgccgcgcatcgtcaaacattggcaataaaagttcttaagattg; laxR-attB1 : ggggactgctttttgtacaaactgtgctagagtcgactagcttcagcg	
p1R4-pWOX5:XVE	taggtaccccctgtagcgaactaggaa taggtacctttacgttttagggcctgtg	
p1R4-pZCP4-XVE	cgaccggtctcaagacatttctactatagac cgctcgagtgtgtgtgtgtgtg	