

**Supplementary Table S3:** Analysis of variance results for nodal root anatomical traits in rice and wheat. Values in table represent least significant difference (LSD) for each trait.

<b>Rice</b>	<b>RD</b>	<b>SD</b>	<b>LMXD</b>	<b>LMXN</b>	<b>SD:RD</b>	<b>AC</b>
<b>Cultivar</b>	108.3*	21.11***	4.239*	0.647*	1.262 <sup>ns</sup>	0.0040**
<b>Treatment</b>	088.5**	17.24 <sup>ns</sup>	3.461 <sup>ns</sup>	0.528*	1.030***	0.0033*
<b>Tissue position</b>	108.3***	21.11***	4.239 <sup>ns</sup>	0.647**	1.262 <sup>ns</sup>	0.0040
<b>Cultivar×Treatment</b>	153.2 <sup>ns</sup>	29.86 <sup>ns</sup>	5.995 <sup>ns</sup>	0.914 <sup>ns</sup>	1.785 <sup>ns</sup>	0.0057
<b>Cultivar×Tissue position</b>	187.6 <sup>ns</sup>	36.57 <sup>ns</sup>	7.342 <sup>ns</sup>	1.120 <sup>ns</sup>	2.186 <sup>ns</sup>	0.007
<b>Treatment×Tissue position</b>	153.2 <sup>ns</sup>	29.86 <sup>ns</sup>	5.995 <sup>ns</sup>	0.914 <sup>ns</sup>	1.785 <sup>ns</sup>	0.0057*
<b>Cultivar×Treatment×Tissue position</b>	265.4 <sup>ns</sup>	51.72 <sup>ns</sup>	10.383 <sup>ns</sup>	1.584 <sup>ns</sup>	3.091 <sup>ns</sup>	0.0099
<b>Wheat</b>						
<b>Cultivar</b>	066.5***	22.20***	8.92***	0.664 <sup>ns</sup>	2.122 <sup>ns</sup>	0.062***
<b>Treatment</b>	066.5 <sup>ns</sup>	22.20 <sup>ns</sup>	8.92 <sup>ns</sup>	0.664 <sup>ns</sup>	2.122 <sup>ns</sup>	0.062**
<b>Tissue position</b>	081.4***	27.18***	10.93***	0.814***	2.599***	0.0759***
<b>Cultivar×Treatment</b>	094.0 <sup>ns</sup>	31.39 <sup>ns</sup>	12.62 <sup>ns</sup>	0.940 <sup>ns</sup>	3.001 <sup>ns</sup>	0.0877*
<b>Cultivar×Tissue position</b>	115.1 <sup>ns</sup>	38.44 <sup>ns</sup>	15.45*	1.151 <sup>ns</sup>	3.675 <sup>ns</sup>	0.0074**
<b>Treatment×Tissue position</b>	115.1***	38.44***	15.45***	1.151***	3.675*	0.107***
<b>Cultivar×Treatment×Tissue position</b>	162.0 <sup>ns</sup>	54.37 <sup>ns</sup>	21.85 <sup>ns</sup>	1.627 <sup>ns</sup>	5.197 <sup>ns</sup>	0.152*

**RD**=root diameter ( $\mu\text{m}$ ), **SD**=stele diameter ( $\mu\text{m}$ ), **LMXD**=late metaxylem diameter ( $\mu\text{m}$ ), **LMXN**=late metaxylem number, **SD:RD**=stele diameter in proportion to root diameter (%), **AC**=axial conductance ( $\text{mg m MPa}^{-1} \text{s}^{-1}$ ). **Significance level:** \* $P < 0.05$ , \*\* $P < 0.01$ , \*\*\* $P < 0.001$ , **ns**= non-significant.