

Supplementary Table S3. Number of vital root tips, whole plant ^{15}N contents and mean N flux through root tips of young beech trees (*Fagus sylvatica*). RT = root tip, EM = ectomycorrhizal plants, NM = nonmycorrhizal plants, LC = full light, well watered, LD = full light, drought, SC = shade, well watered, SD = shade, drought. Values indicate means \pm SE (n = 10, except n = 5 for NM plants in LC and LD treatments). F and P values are given for the effects of the main variables mycorrhizal status (EM), light (L) and water availability (D). $P \leq 0.05$ are shown by bold letters.

| Growth condition | Number of vital root tips (plant ⁻¹) | | ^{15}N (mg plant ⁻¹)* | | mean N flux (^{15}N ng RT ⁻¹ h ⁻¹) | |
|------------------|--|------------------|--|------------------|---|------------------|
| EM-LC | 4356 \pm 587 | | 0.74 \pm 0.13 | | 3.04 \pm 0.88 | |
| EM-LD | 5888 \pm 652 | | 1.49 \pm 0.43 | | 3.07 \pm 0.41 | |
| EM-SC | 3897 \pm 571 | | 0.38 \pm 0.04 | | 1.21 \pm 0.27 | |
| EM-SD | 4442 \pm 677 | | 0.57 \pm 0.18 | | 1.53 \pm 0.34 | |
| NM-LC | 2555 \pm 349 | | 0.72 \pm 0.06 | | 3.69 \pm 0.44 | |
| NM-LD | 3480 \pm 665 | | 0.65 \pm 0.13 | | 3.56 \pm 0.15 | |
| NM-SC | 2122 \pm 277 | | 0.27 \pm 0.03 | | 1.46 \pm 0.26 | |
| NM-SD | 2427 \pm 262 | | 0.45 \pm 0.14 | | 2.33 \pm 0.64 | |
| | F | P | F | P | F | P |
| EM | 19.4 | <0.001 | 4.49 | 0.042 | 1.28 | 0.266 |
| L | 5.53 | 0.021 | 25.64 | <0.001 | 16.26 | <0.001 |
| D | 4.00 | 0.049 | 3.15 | 0.086 | 0.38 | 0.541 |

* data from Pena et al, 2013b