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| **Supplementary Table 3:**  |
| **Effects of soil, environmental and vegetation parameters on the different Sesquiterpene lactone contents.** H = helenalin; DH = dihydrohelenalin; Ac = acetyl; Met = metacryloyl; Ibut = isobutyryl; bs = base saturation; cec = cation exchange capacity; spec no = species number per plot; veg cover = vegetation cover in percentage; altitude in m above sea level; slope = slope inclination. All results calculated with R-studio, function lm() and summary. |
|  | **X** | **R²** | **p-value** | **corr** |  |  | **X** | **R²** | **p-value** | **corr** |
| **H** | **soil pH** | 0.20 | \*\*\* | **↗** |  | **DH** | **soil pH** |   | > 0.05 |  |
| **bs** | 0.21 | \*\*\* | **↗** |  | **bs** |  | > 0.05 |  |
| **cec** | 0.05 | \* | **↗** |  | **cec** |  | > 0.05 |  |
| **C/N ratio** | 0.08 | \*\* | **↘** |  | **C/N ratio** |  | > 0.05 |  |
| **spec no****veg cover** | 0.220.18 | \*\*\*\*\*\* | **↗****↗** |  | **spec no****veg cover** |  | > 0.05> 0.05 |  |
| **altitude** |   | > 0.05 |  |  | **altitude** |   | > 0.05 |  |
| **slope** |  | > 0.05 |  |  | **slope** |  | > 0.05 |  |
| **Ac-H** | **soil pH** | 0.09 | \*\* | **↗** |  | **Ac-DH** | **soil pH** | 0.27 | \*\*\* | **↗** |
| **bs** | 0.14 | \*\*\* | **↗** |  | **bs** | 0.28 | \*\*\* | **↗** |
| **cec** |  | > 0.05 |  |  | **cec** | 0.23 | \*\*\* | **↗** |
| **C/N ratio** | 0.09 | \*\* | **↘** |  | **C/N ratio** | 0.21 | \*\*\* | **↘** |
| **spec no****veg cover** | 0.110.05 | \*\*\* | **↗****↗** |  | **spec no****veg cover** | 0.330.07 | \*\*\*\* | **↗****↗** |
| **altitude** |   | > 0.05 |  |  | **altitude** | 0.09 | \*\* | **↘** |
| **slope** |  | > 0.05 |  |  | **slope** |  | > 0.05 |  |
| **Met-H** | **soil pH** | 0.13 | \*\*\* | **↗** |  | **Met-DH** | **soil pH** | 0.27 | \*\*\* | **↗** |
| **bs** | 0.13 | \*\*\* | **↗** |  | **bs** | 0.30 | \*\*\* | **↗** |
| **cec** | 0.05 | \* | **↗** |  | **cec** | 0.28 | \*\*\* | **↗** |
| **C/N ratio** | 0.07 | \* | **↘** |  | **C/N ratio** | 0.15 | \*\*\* | **↘** |
| **spec no****veg cover** | 0.120.11 | \*\*\*\* | **↗****↗** |  | **spec no****veg cover** | 0.260.05 | \*\*\* \* | **↗****↗** |
| **altitude** | 0.09 | \*\*\* | **↘** |  | **altitude** | 0.13 | \*\*\* | **↘** |
| **slope** |  | > 0.05 |  |  | **slope** |  | > 0.05 |  |
| **Ibut-H** | **soil pH** | 0.08 | \*\* | **↗** |  | **Ibut-DH** | **soil pH** |   | > 0.05 |  |
| **bs** | 0.14 | \*\*\* | **↗** |  | **bs** | 0.06 | \* | **↗** |
| **cec** | 0.05 | \* | **↗** |  | **cec** |  | > 0.05 |  |
| **C/N ratio** | 0.11 | \*\* | **↘** |  | **C/N ratio** | 0.05 | \* | **↘** |
| **spec no****veg cover** | 0.11 | \*\*> 0.05 | **↗** |  | **spec no****veg cover** |  | > 0.05> 0.05 |  |
| **altitude** |   | > 0.05 |  |  | **altitude** |   | > 0.05 |  |
| **slope** |  | > 0.05 |  |  | **slope** |  | > 0.05 |  |
| **SL total content** | **soil pH** | 0.33 | \*\*\* | **↗** |  | **H/DH ratio** | **soil pH** | 0.07 | \* | **↗** |
| **bs** | 0.40 | \*\*\* | **↗** |  | **bs** | 0.09 | \*\* | **↗** |
| **cec** | 0.23 | \*\*\* | **↗** |  | **cec** |  | > 0.05 |  |
| **C/N ratio** | 0.23 | \*\*\* | **↘** |  | **C/N ratio** | 0.05 | \* | **↘** |
| **spec no****veg cover** | 0.380.17 | \*\*\*\*\*\* | **↗****↗** |  | **spec no****veg cover** | 0.090.06 | \*\*\* | **↗****↗** |
| **altitude** | 0.08 | \*\* | **↘** |  | **altitude** |   | > 0.05 |  |
| **slope** |  | > 0.05 |  |  | **slope** |  | > 0.05 |  |