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|  | Microbial community composition | | Physicochemical variables |
| 16S | ITS2 |
| Functional variables | R2 = 0.23  p-value = 0.04 | R2 = 0.11  p-value = n.s. | R2 = 0.45  p-value = 0.02 |
| Climatic variables (AI, MAT, MAP, altitude) | R2 = 0.63  p-value < 0.01 | R2 = 0.65  p-value < 0.01 | (not tested) |

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|  | Functional variables | Microbial community composition | |
|  | 16S | ITS2 |
| Physicochemical variables | R2 = 0.45  p-value = 0.02 | R2 = 0.36  p-value < 0.01 | R2 = 0.30  p-value < 0.01 |
| Climatic variables (AI, MAT, MAP, altitude) | R2 = 0.56  p-value = < 0.01 | R2 = 0.63  p-value < 0.01 | R2 = 0.65  p-value < 0.01 |
| Functional variables | - | R2 = 0.23  p-value = 0.04 | R2 = 0.11  p-value = n.s. |