

Enhanced natural regeneration potential of sessile oak in Northern Hungary – role of artificially increased density of insectivorous birds
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Table S10. Results of statistics of data collected by seedling counting

```
PQL <- glmmPQL(ABUNDANCE.t ~ Site, ~1 | Quadrat_ID, family = gaussian(link = "log"), data = Seedling)
summary(PQL)
```

Linear mixed-effects model fit by maximum likelihood

Data: Seedling

AIC	BIC	logLik
NA	NA	NA

Random effects:

Formula: ~1 | Quadrat_ID

	(Intercept)	Residual
StdDev:	0.630524	0.000117

Variance function:

Structure: fixed weights

Formula: ~invwt

Fixed effects: ABUNDANCE.t ~ Site

	Value	Std.Error	DF	t-value	p-value
(Intercept)	0.866969	0.036464	598	23.7759	0
SiteSample	0.604569	0.051568	598	11.7237	0

Correlation:

	(Intr)
SiteSample	-0.707

Standardized Within-Group Residuals:

Min	Q1	Med	Q3	Max
-1.33×10 ⁻⁴	-7.88×10 ⁻⁵	-6.08×10 ⁻⁶	2.30×10 ⁻⁵	4.74×10 ⁻⁵

Number of Observations: 600

Number of Groups: 600

anova.lme(PQL, test="F")

	numDF	denDF	F-value	p-value
(Intercept)	1	598	2056.437	<0.0001
Site	1	598	137.4452	<0.0001

summary(glht(PQL, linfct=mcp(Site="Tukey")))

Simultaneous Tests for General Linear Hypotheses

Multiple Comparisons of Means: Tukey Contrasts

```
Fit: glmmPQL(fixed = ABUNDANCE.t ~ Site, random = ~1 | Quadrat_ID, family = gaussian(link = "log"),
  data = Seedling)
```

Linear Hypotheses:

Estimate	Std. Error	z value	Pr(> z)
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Sample - Control == 0	0.60457	0.05148	11.74	$<2\times10^{-16}$	***
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Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Adjusted p values reported -- single-step method)