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FERNANDA KELLY

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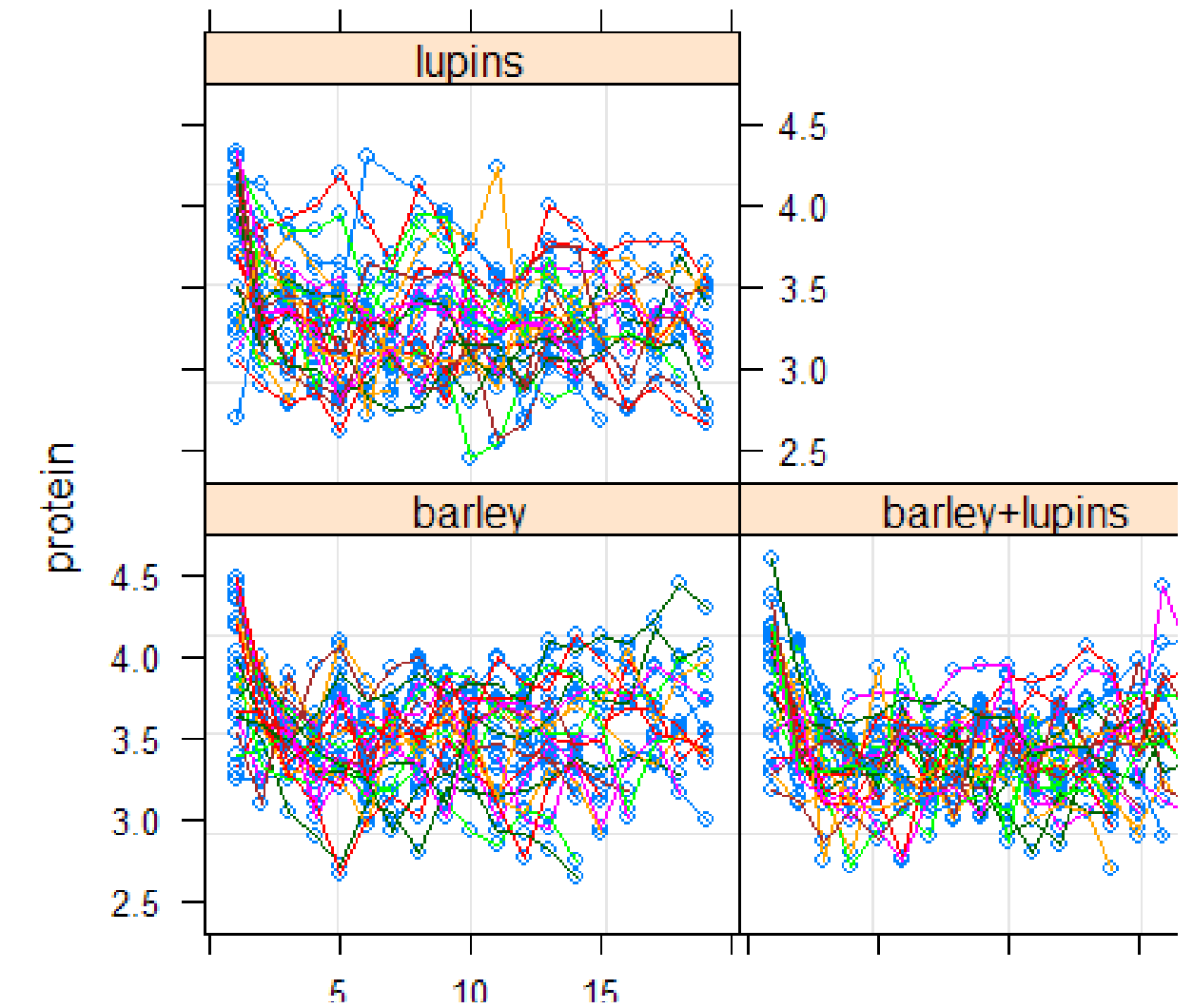
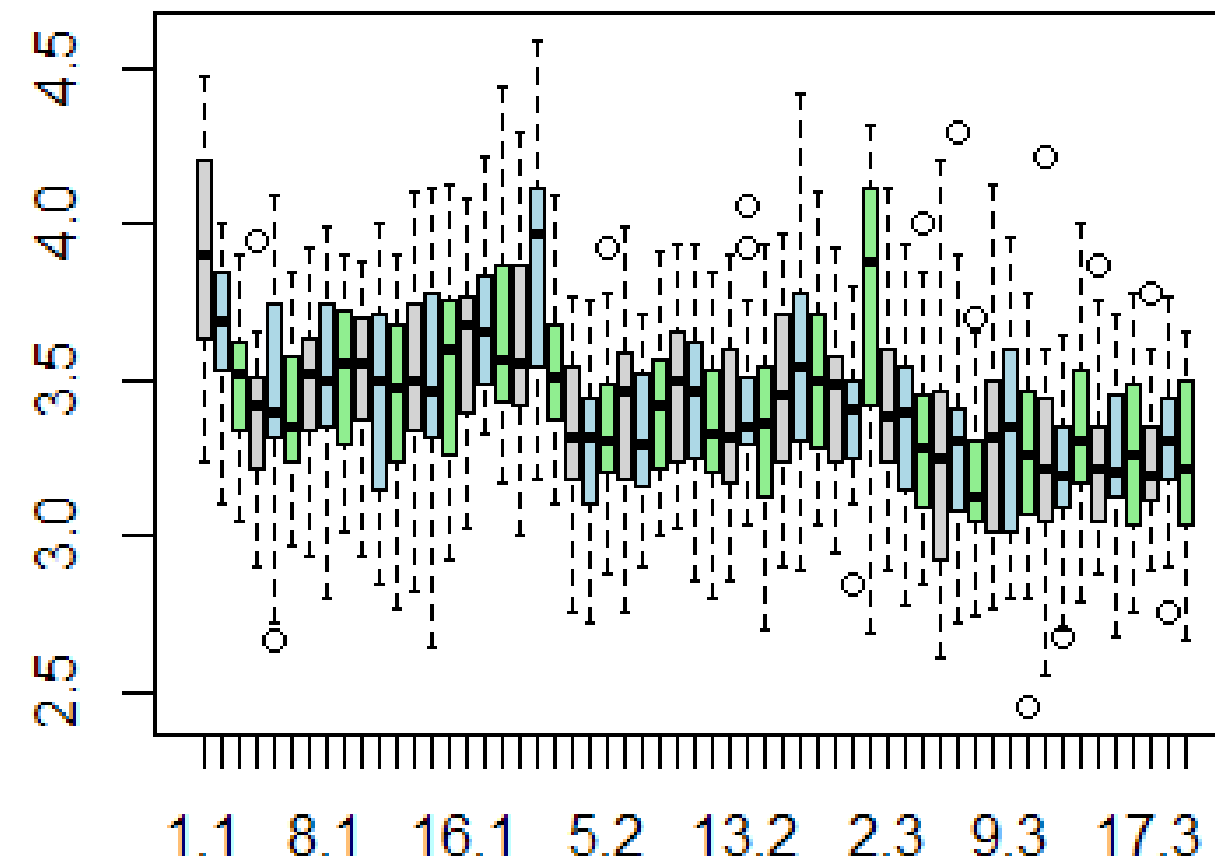
ANÁLISE DE DADOS
LONGITUDINAIS.

Ouvuiu falar?

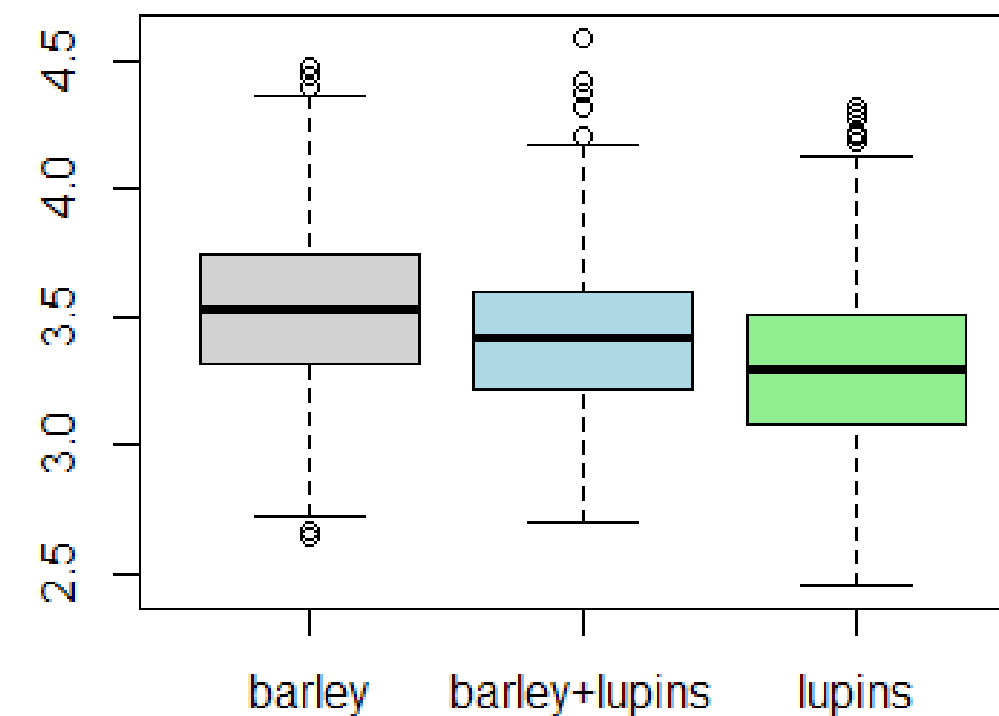
*Medidas repetidas constituem
dados longitudinais.*

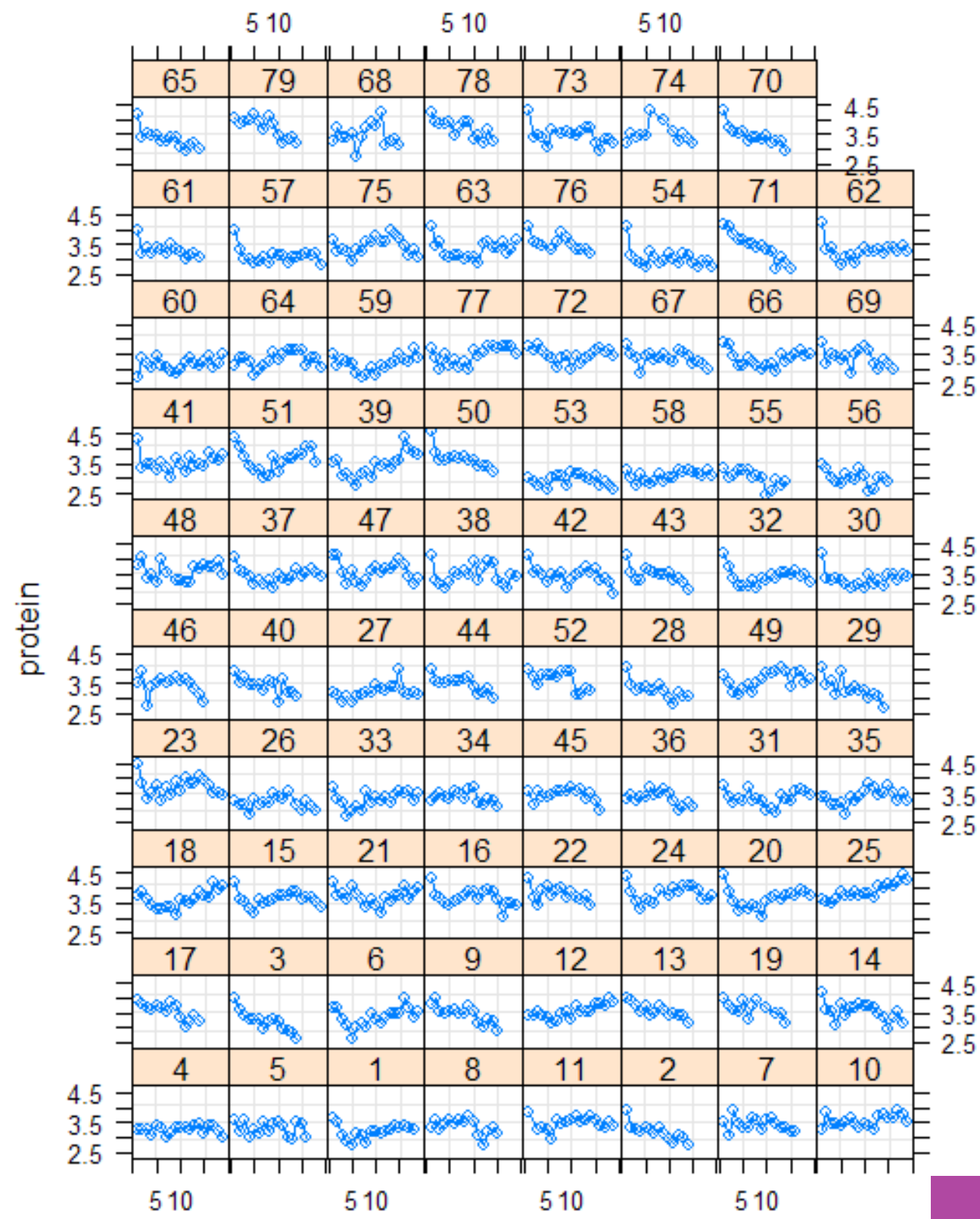


UMA BREVE INTRODUÇÃO



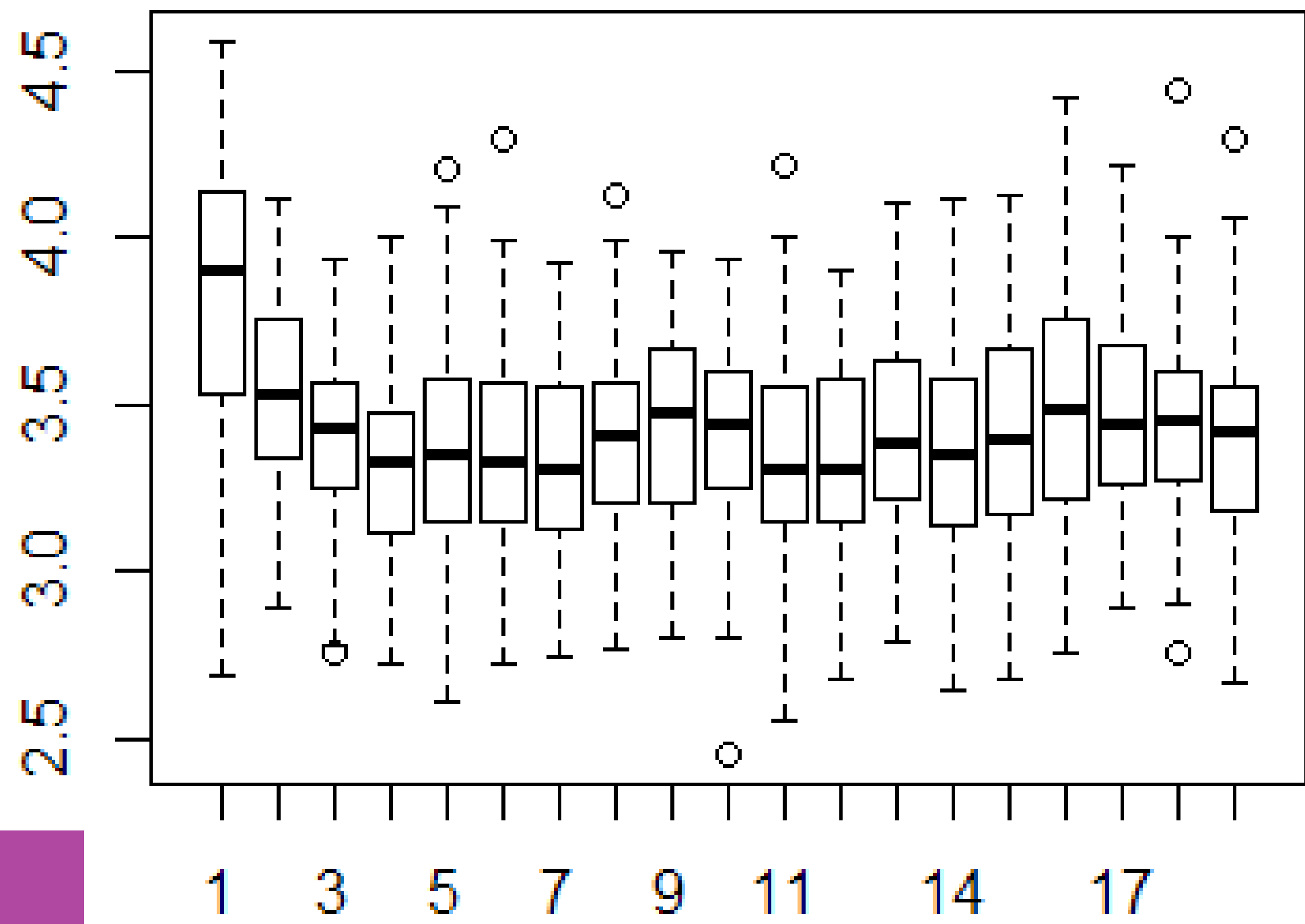
Caracterizar
mudanças nas
proteínas e fatores
que influenciam essas
mudanças.





Neste gráfico podemos observar o nível de proteína no leite da vaca pelo tempo de medição (em semanas após o parto)

PROTEÍNA AO
LONGO DO
TEMPO



EFEITOS FIXOS.

Efeitos aleatórios?

O fator vai ter um conjunto de atributos, não importa qual a população que a pessoa está inserida.



MODELAGEM

```
MODA=LMER(FORMULA = PROTEIN ~ TIME*DIET + (1| COW), REML = F)
MODB=LMER(FORMULA = PROTEIN ~ TIME*DIET + (TIME| COW), REML = F)
```

```
DATA: NULL
MODELS:
MODA: PROTEIN ~ TIME * DIET + (1 | COW)
MODB: PROTEIN ~ TIME * DIET + (TIME | COW)
      DF  AIC   BIC  LOGLIK DEVIANCE  CHISQ CHI DF PR(>CHISQ)
MODA  8 489.15 530.74 -236.58  473.15
MODB 10 360.58 412.56 -170.29  340.58 132.57    2 < 2.2E-16 ***
---
SIGNIF. CODES: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

A PARCELA ALEATÓRIA FOI ESCOLHIDA.

MODELAGEM

```
MODA1=LMER(FORMULA = PROTEIN ~ TIME + (TIME| COW), REML = F)
MODB1=LMER(FORMULA = PROTEIN ~ TIME + DIET + (TIME| COW), REML = F)
MODC1=LMER(FORMULA = PROTEIN ~ TIME * DIET + (TIME| COW), REML = F)
```

DATA: NULL

MODELS:

MODA1: PROTEIN ~ TIME + (TIME | COW)

MODB1: PROTEIN ~ TIME + DIET + (TIME | COW)

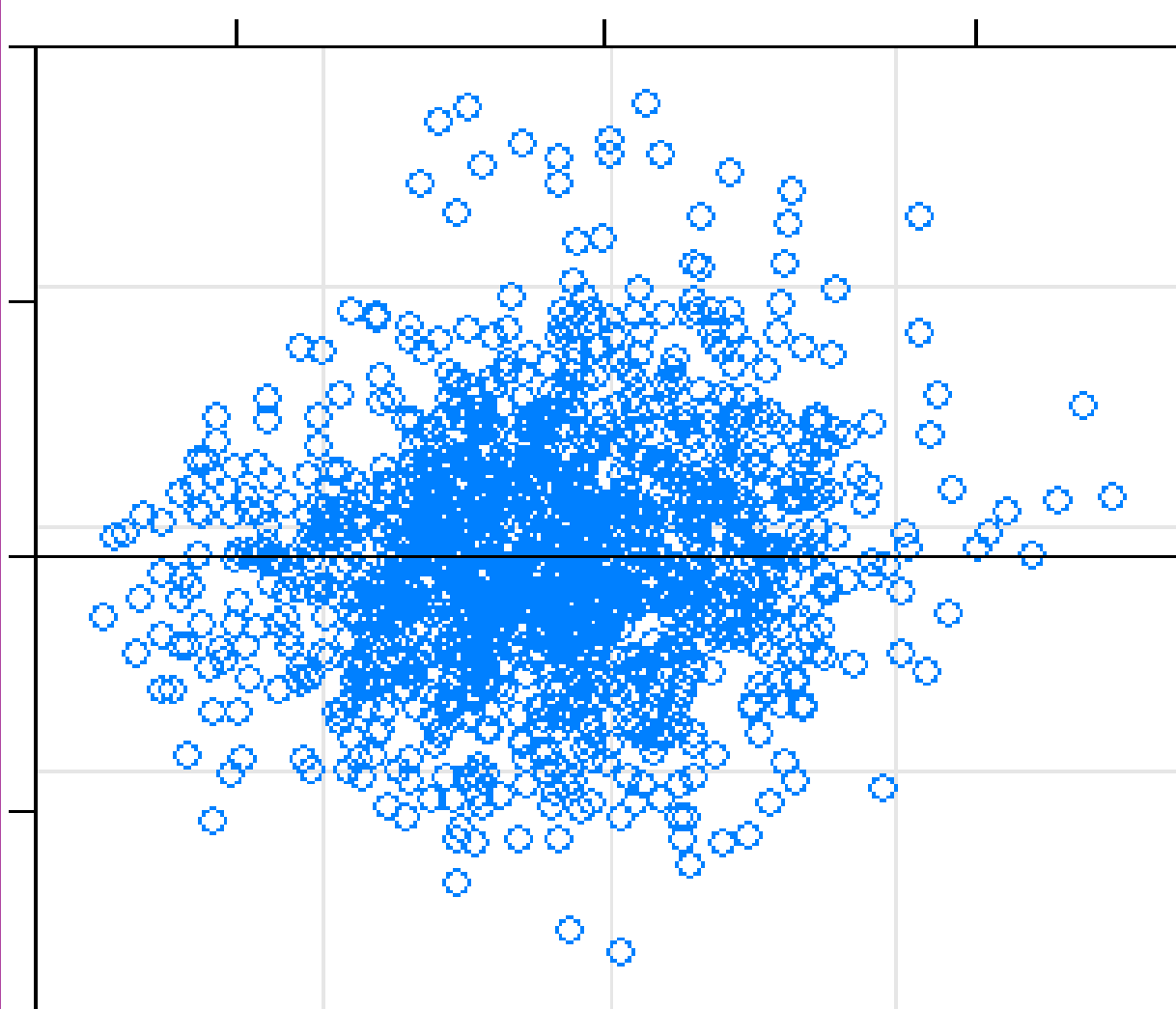
MODC1: PROTEIN ~ TIME * DIET + (TIME | COW)

	DF	AIC	BIC	LOGLIK	DEVIANCE	CHISQ	CHI	DF	PR(>CHISQ)
MODA1	6	368.72	399.91	-178.36	356.72				
MODB1	8	358.12	399.70	-171.06	342.12	14.6082	2	0.0006728	***
MODC1	10	360.58	412.56	-170.29	340.58	1.5343	2	0.4643393	

SIGNIF. CODES: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

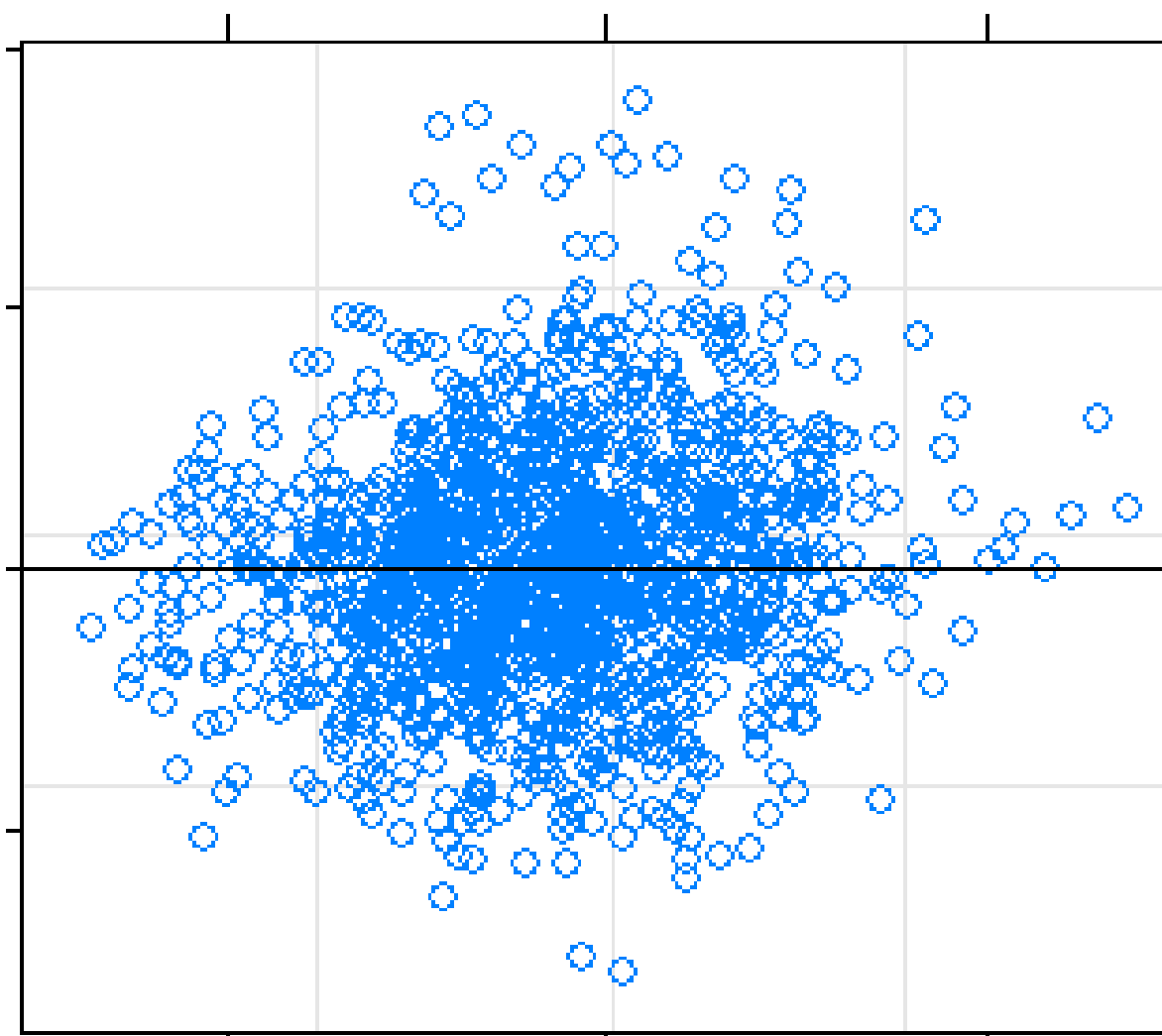
A PARCELA FIXA FOI ESCOLHIDA.

FIFTED



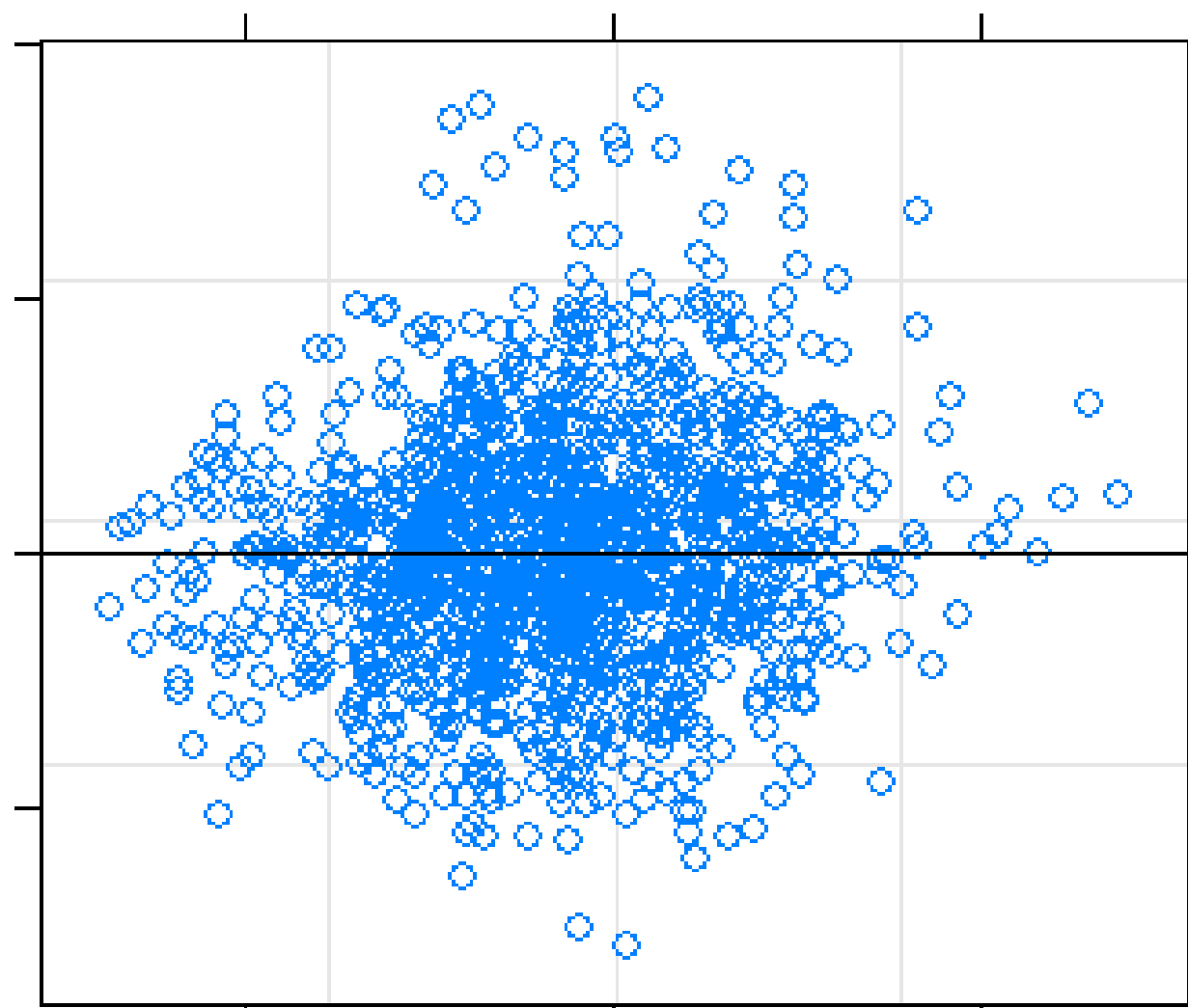
fitted(.)

MODB1



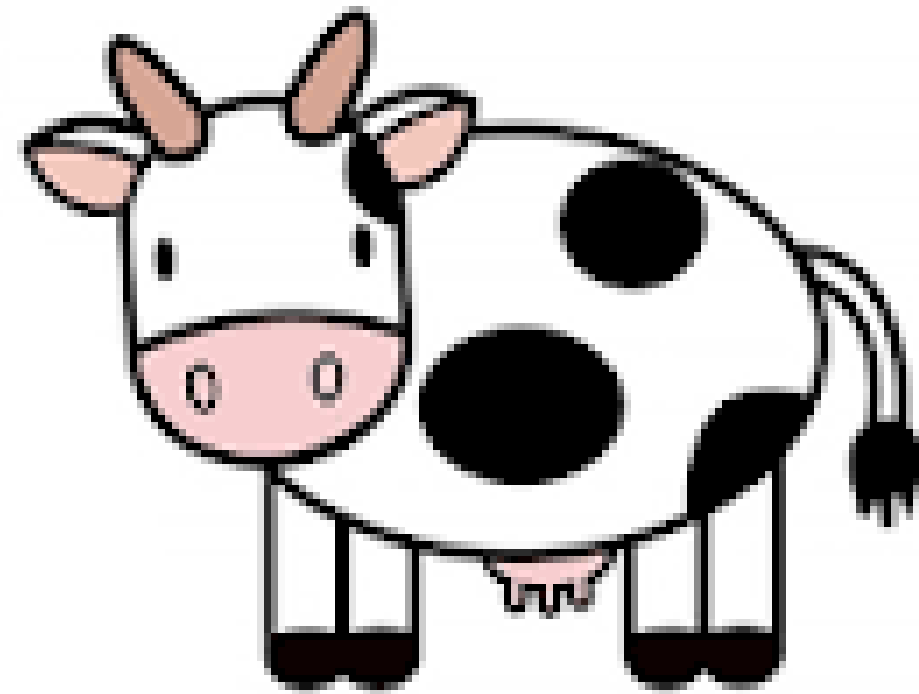
fitted(.)

MODA1



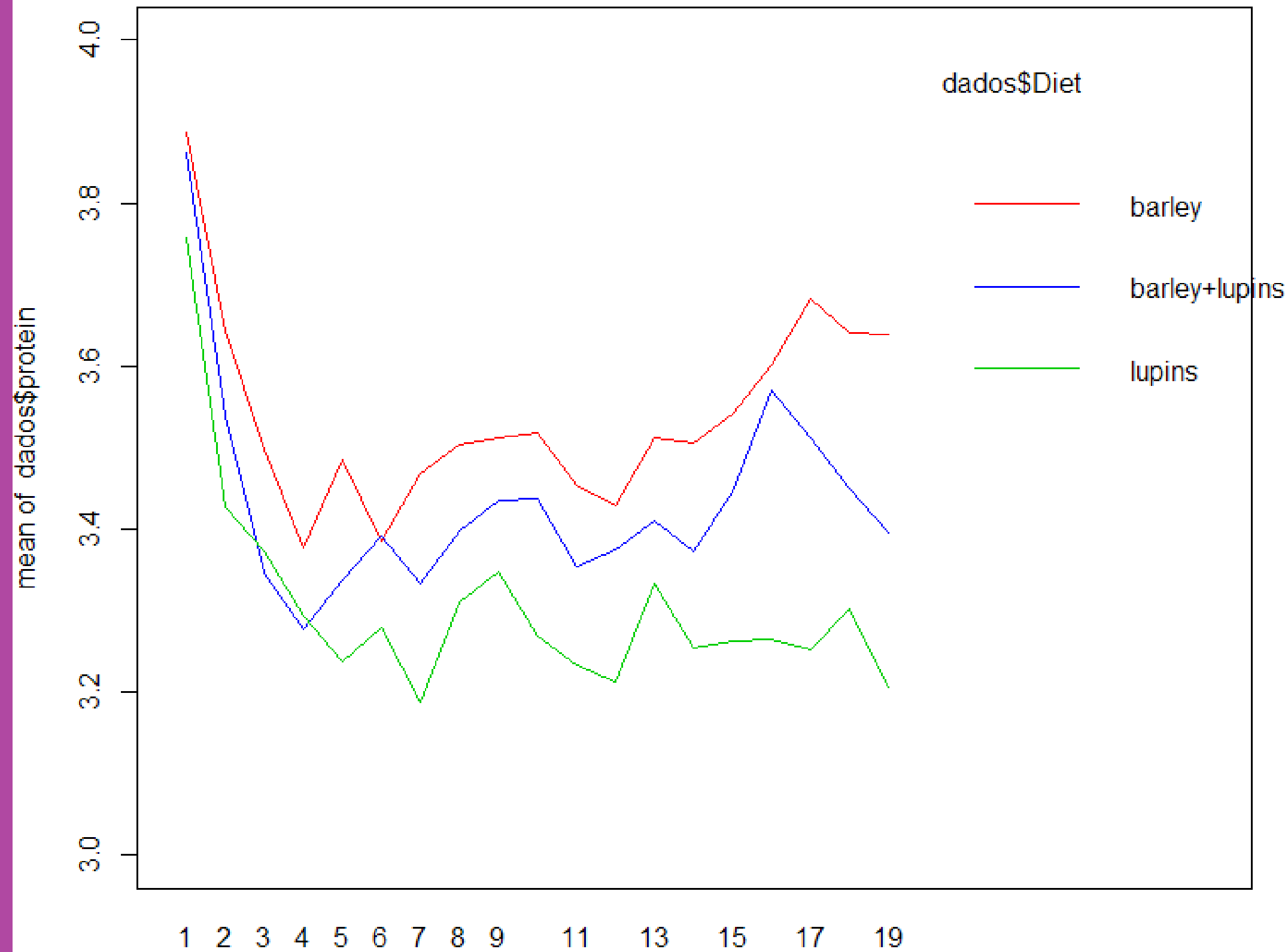
fitted(.)

MODC1



+Tempo +Cow

Tempo + Dieta



+Tempo
+Cow

Tempo + Dieta

+Barley

MODELAGEM

LINEAR MIXED MODEL FIT BY MAXIMUM LIKELIHOOD ['LMERMOD']
FORMULA: PROTEIN ~ TIME + DIET + (TIME | COW)

FIXED EFFECTS:

	ESTIMATE	STD. ERROR	T VALUE
(INTERCEPT)	3.616574	0.043924	82.337
TIME	-0.012491	0.003153	-3.961
DIETBARLEY+LUPINS	-0.094164	0.048706	-1.933
DIETLUPINS	-0.197188	0.048729	-4.047

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*Muito
Obrigada!*
