

STUDY OF BODY CONDITION, ENERGY MOBILIZATION AND LEPTIN PROFILE IN REPRODUCTIVE FEMALES

García ML.¹, Peiró R.², Agea I.¹, Argente MJ.¹

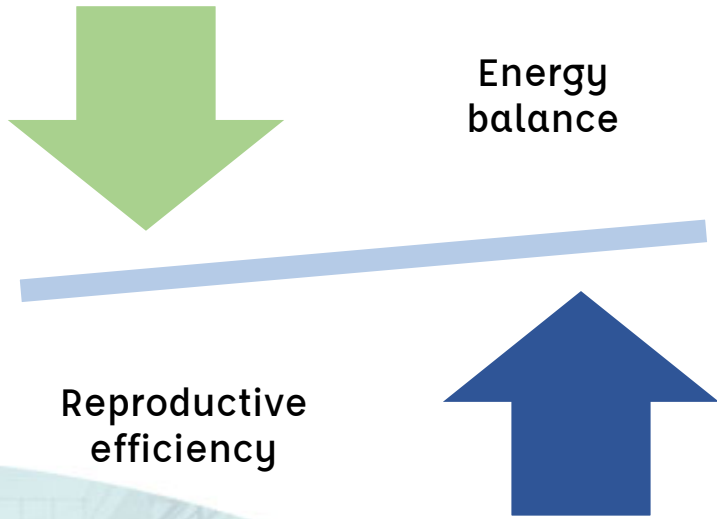
¹Dept. of Agrofood Technology, University Miguel Hernández of Elche, Ctra. Beniel km 3.2, 03312, Orihuela, Spain

² Instituto de Conservación y Mejora de la Agrodiversidad Valenciana (COMAV), Universitat Politècnica de València, Camino de Vera s/n, 46022, Valencia, Spain

Corresponding author: mariluz.garcia@umh.es



INTRODUCTION



BODY CONDITION:

- BODY WEIGHT
- PERIRENAL FAT THICKNESS

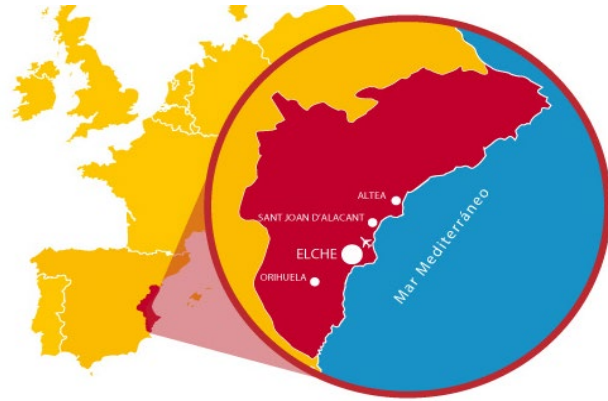
ENERGY MOBILIZATION:

- NEFA
- LEPTIN

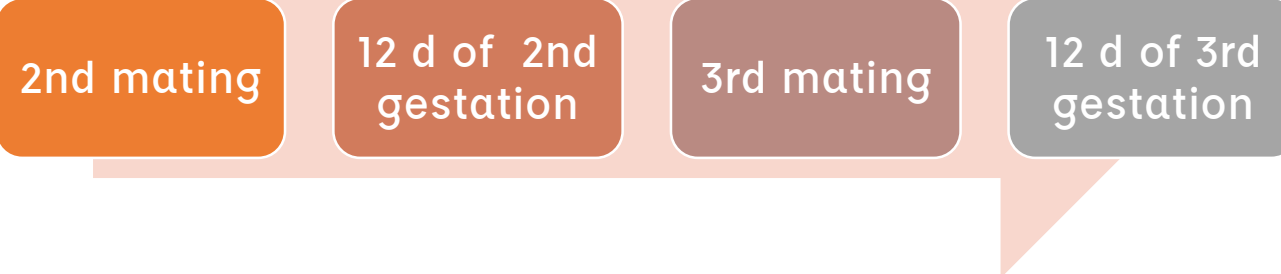
OBJECTIVE

The objective was to study the effect of reproductive and lactating status, and gestation order in body condition, NEFA and leptin concentration in rabbit females.

MATERIAL AND METHODS



26 females



Experimental farm
University Miguel Hernández de Elche (Spain)



Body weight (g)



Perirenal fat thickness (mm)



Non-esterified fatty acids (NEFA)
(mmol/L)



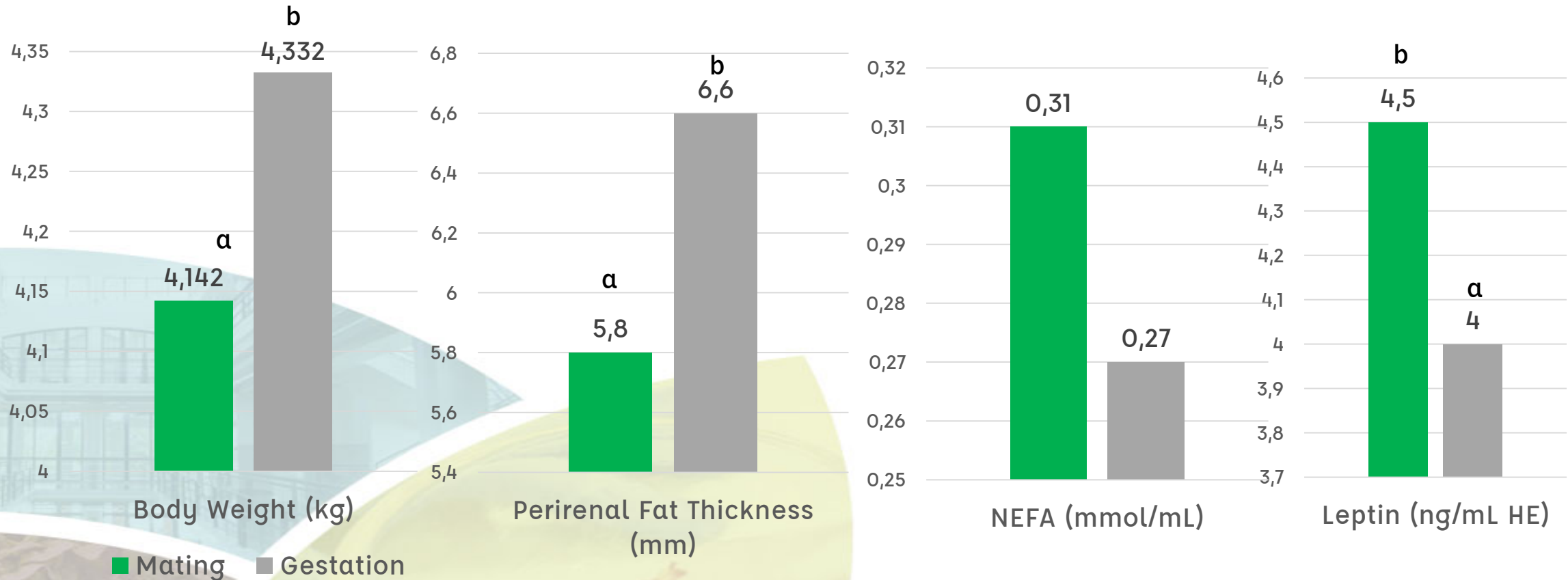
Leptin by RIA (ng/ml HE)

MATERIAL AND METHODS

- Statistical Analysis. The model includes:
 - Reproductive status: mating or 12 days of gestation
 - Lactation status: Lactating or non lactating
 - Gestation order: Second or third gestation
 - Female effect
- All analyses were performed using Bayesian methodology.

RESULTS

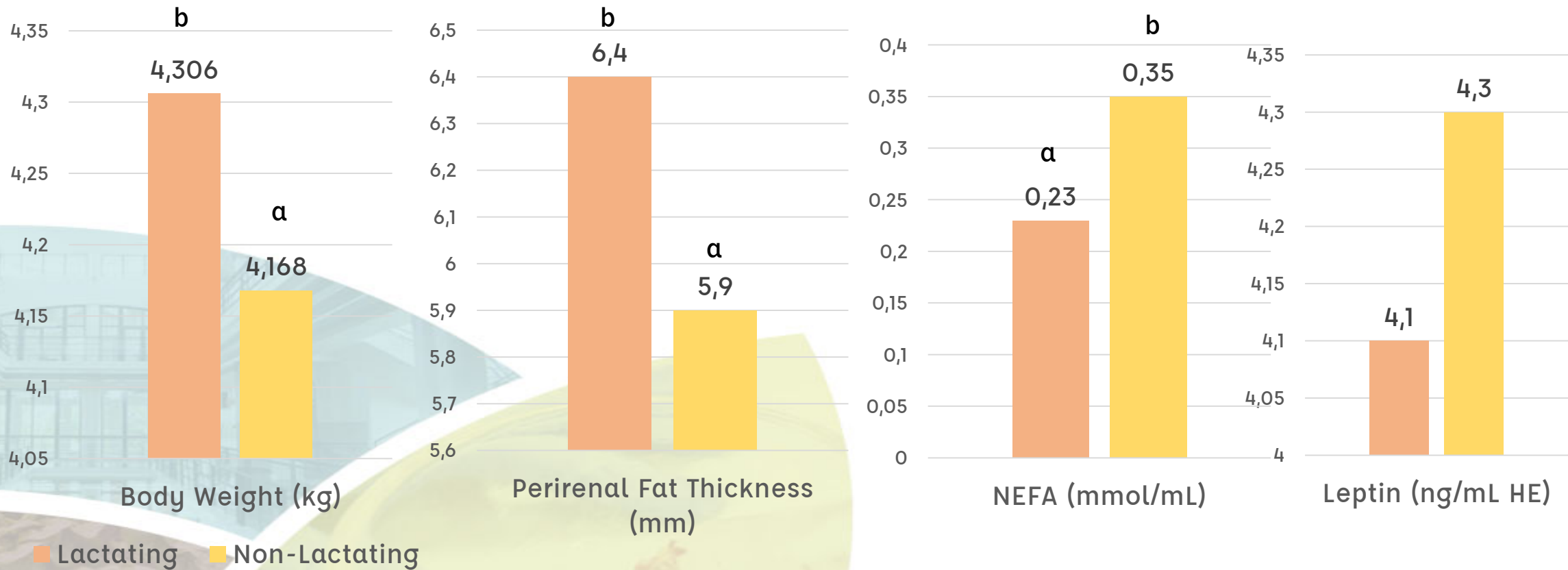
Figure 1: Features of the marginal posterior distribution of the differences between mating and 12 days of gestation



α, b: P > 90%. P = probability of the difference being > 0 when M-G > 0, and probability of the difference being < 0 when M-G < 0

RESULTS

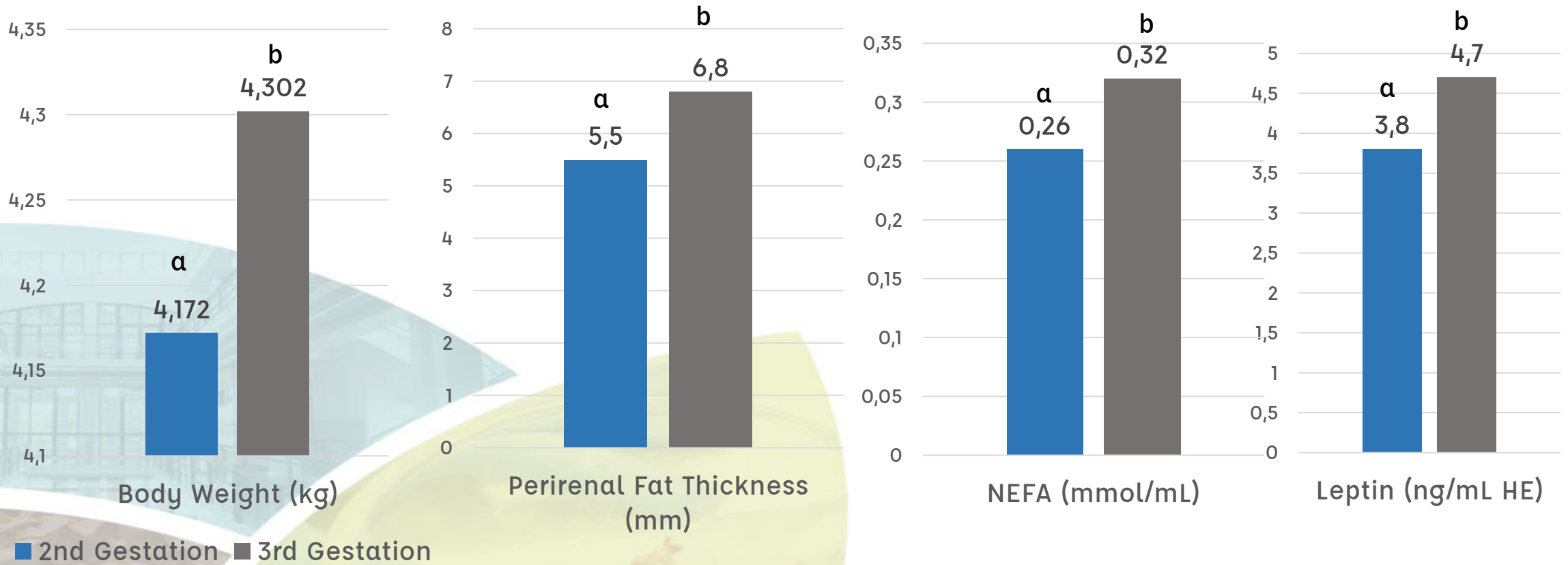
Figure 2: Features of the marginal posterior distribution of the differences between lactating and non-lactating females



a, b: P > 90%. P = probability of the difference being > 0 when L-NL > 0, and probability of the difference being < 0 when L-NL < 0

RESULTS

Figure 3: Features of the marginal posterior distribution of the differences between 2nd and 3rd of gestation



α, b: P > 90%. P = probability of the difference being > 0 when 2nd-3rd > 0, and probability of the difference being < 0 when 2nd-3rd < 0

CONCLUSION

Reproductive status, lactation-gestation overlap and gestation order affect body condition, energy mobilization and leptin concentration.



Article

Relationship between Prenatal Characteristics and Body Condition and Endocrine Profile in Rabbits

María-Luz García ^{1,*}, Raquel Muelas ¹, María-José Argente ¹ and Rosa Peiró ²

- ¹ Departamento de Tecnología Agroalimentaria, Universidad Miguel Hernández de Elche, Ctra de Beniel km 3.2, 03312 Orihuela, Spain; raquel.muelas@umh.es (R.M.); mj.argente@umh.es (M.-J.A.)
² Instituto de Conservación y Mejora de la Agrodiversidad Valenciana, Universitat Politècnica de València, P.O. Box 22012, 46071 Valencia, Spain; ropeibar@btc.upv.es
* Correspondence: mariluz.garcia@umh.es



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THANKS FOR YOUR ATTENTION