

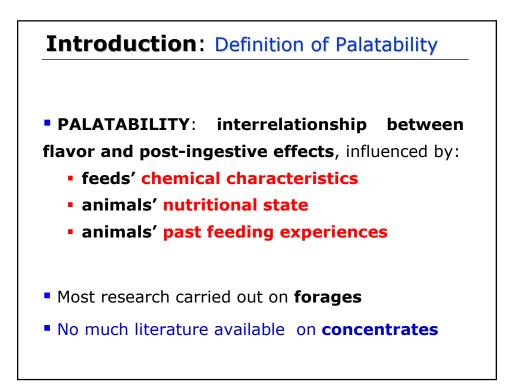


Measurement of palatability of 14 common ingredients used in feed mixes for lambs and ewes

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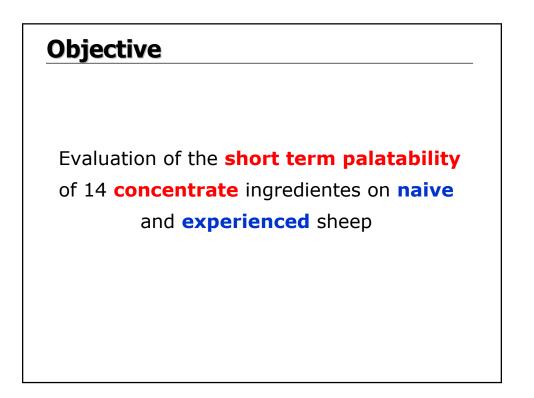


Palatability of concentrates

• Feed neophobia often observed with concentrates: e.g. in dairy sheep the change of concentrate or the insertion of a new raw material in feed mixes often causes feed refusals:

- Concentrates are supplied alone only during the two daily milkings
- Short time available to eat the concentrates during milking

 Economical damages for farmers (milk losses, tendency of using the same concentrate) and feed companies (customers' complains, limited use of certain ingredients)



Materials and methods: animals

14 female Sarda lambs

Age: 72±9 d (32±8 d after weaning) BW: 16.9±1.3 kg

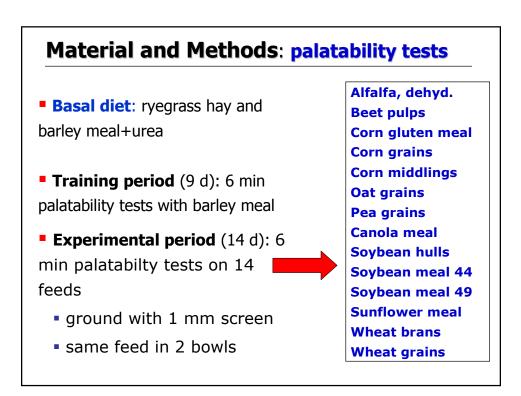
14 multiparous dry Sarda ewes

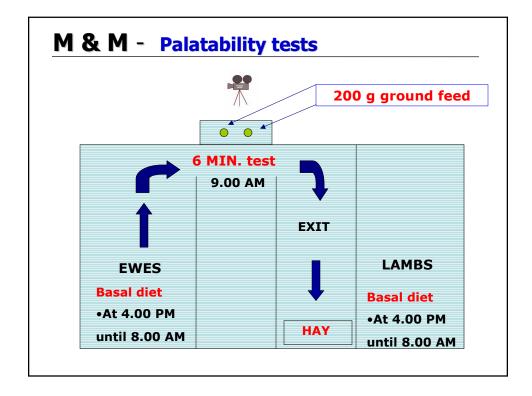
Age: 4±1 years **BW**: 50.6±3.1 kg **BCS**: 3.1 ± 0.2

PREVIOUS FEEDING EXPERIENCE

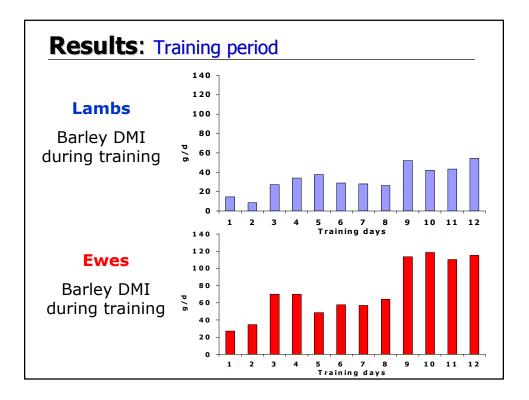
Lambs: from weaning to experiment (32 days): alfalfa hay
+ pelleted feed (barley, corn grains, and wheat grains; soybean meal, beet pulps, alfalfa dehydrated meal, wheat brans, molasses (DM 87.5%, CF 9.4%, CP 18.9%)

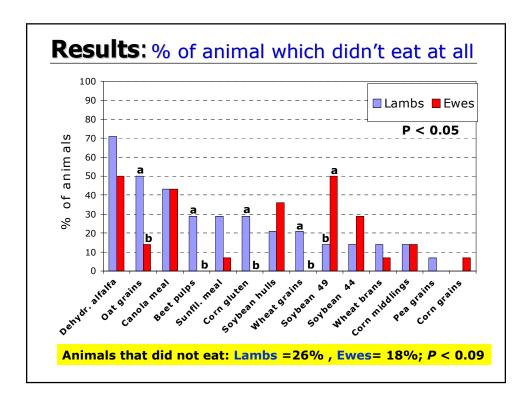
Ewes: Pasture + various types of concentrates or concentrate mixes during milking time

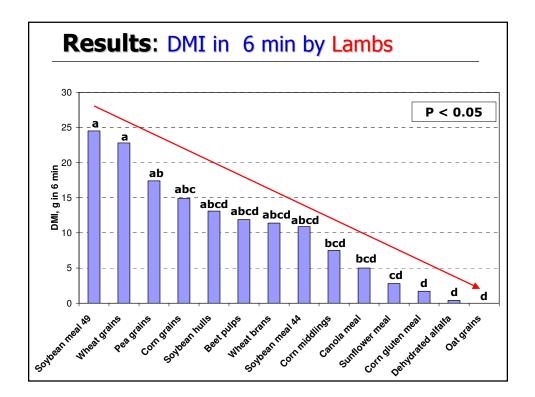


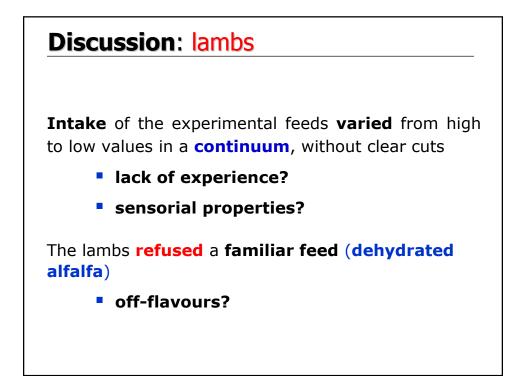


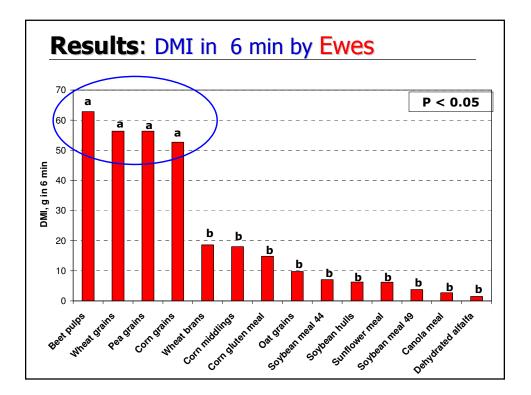
Experimental feed	DAY	ANIMAL 1		ANIMAL 2		ANIMAL 3		ANIMAL 4		ANIMAL 5		ANIMAL 14	
		L	R	L	R	L	R	L	R	L	R	L	R
	1	1	1	2	2	3	3	4	4	5	5	14	14
-	2	2	2	3	3	4	4	5	5	6	6	1	1
Experimental	3	3	3	4	4	5	5	6	6	7	7	2	2
design: two	4	4	4	5	5	6	6	7	7	8	8	3	3
•	5	5	5	6	6	7	7	8	8	9	9	4	4
14 x 14 Latin	6	6	6	7	7	8	8	9	9	10	10	5	5
squares	7	7	7	8	8	9	9	10	10	11	11	6	6
	8	8	8	9	9	10	10	11	11	12	12	7	7
	9	9	9	10	10	11	11	12	12	13	13	8	8
	10	10	10	11	11	12	12	13	13	14	14	9	9
	14												











Discussion: Ewes

The ewes showed a **marked preference for 4 feeds** often supplied as **single feed during milking**

beet pulps, wheat grains, pea, and corn grains

Low intake or almost total rejection for the other feeds, including several feeds commonly used for sheep feeding but rarely used as single ingredients

Iess prone than lambs to experience novel flavors. I eat what I know..

