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## **Book of Abstracts**

Guest Editors: Massimo Trabalza-Marinucci (Coordinator), Cesare Castellini, Emiliano Lasagna, Stefano Capomaccio, Katia Cappelli, Simone Ceccobelli, Andrea Giontella





### ANIMAL WELFARE, HEALTH AND BEHAVIOUR - HUSBANDRY, WELFARE AND BEHAVIOUR

popularity and economic interest. In this field, mechanization of milking procedures represents an important innovation in donkey milk production. The aim of the work is to evaluate if a habituation protocol for dairy donkeys to the milking parlor procedures could be useful to reduce animal stress.

Sixty lactating dairy donkey jennies (97 ± 45 days in milk) were divided in three groups of 20 heads for each, homogeneous for age, parity and days in milk. All the animals were never subjected to mechanical milking procedures and never entered the milking parlor. Groups A and B were subject to different habituation protocols that lasted 9 days. These two groups had, then, 6 days of mechanical milking. Group C (negative control) was directly mechanically milked for 6 days. For the first 3 days, both groups A and B passed through the switched-off milking parlor. In the next 6 days donkeys in the group A received a "more gentle treatment" passing for 2 days through the switched-on milking parlor and for 4 days stopping in the milking stall. Group B, instead, was stopped in the milking stall during all 6 days, and their udders were neared to the switched-on milking cluster. Behavioral patterns and heart rate were measured during each session. Data obtained were submitted to 2-way ANOVA using the general linear model. Groups were then analyzed separately considering as fixed effect the milking session and applying the Tukey's test for repeated measures. Significance was set as p < .05.

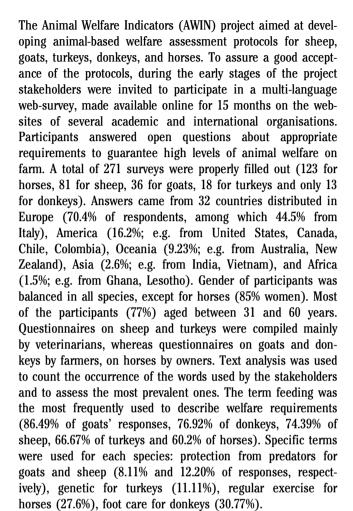
Donkeys that received the pre-milking habituation handling (groups A and B) showed less reactive behaviors (kicks and steps) and incoming stops when the milking procedures started if compared to the C group (p<.01). Differences in heart rate were observed during the milking procedures between C group and other ones (p<.05). Milk production was greatly affected by pre-milking treatment. Group B showed a greater milk production at the first milking session (p<.01). From the second milking session, group C, without any pre-milking habituation period, showed lower milk production (p<.01). This suggests that the pre-milking habituation protocol providing a rapid contact with the milking cluster can result in a better response of animals with lower reactions behaviors, lower heart rate variation and higher milk production.

### **O041**

# Outcomes of a web-survey for collecting stakeholders' opinion on welfare requirements for sheep, goats, turkeys, donkeys, and horses

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The interest raised by the survey was below expectations. One reason could be that the distribution was insufficient or inappropriate: stakeholders from countries involved in the AWIN project were more engaged compared to other countries. Another possible explanation could be internet availability, which may represent a further limit in some geographic areas (e.g. developing countries). Finally, the characteristics of human-animal relationship seem to have played a role in stakeholders' involvement: horses, characterized by a stronger relationship, received the highest number of answers, whereas turkeys (high number of animals/farm, less strict human-animal relationship) received less answers.

The results showed that stakeholders' involvement, while crucial, would be susceptible to certain biases that need to be taken into account when conceiving and distributing a websurvey.

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