Proceedings of the
4th International Conference and Industrial Exhibition on
Dairy Science Park
November 1-5, 2017

Abstracts
ISBN-978-969-422-001-7

Editors
Sania Subhan Qureshi
Rifat Ullah Khan
M Subhan Qureshi
Sher Bahadar Khan
Shakoor Ahmad Qureshi
Mithat Direk

Venue
Selçuk Üniversitesi, Konya, Turkey

Co-organizer
The University of Agriculture, Peshawar-25120, Pakistan

Publisher
Engr Irfan Ul Haq Qureshi, President, Dairy Science Park
Peshawar/Konya

Mobile/WhatsApp: +92 301 894 5994; Email: i.quraysh@gmail.com
Website: http://dairysciencepark.org.pk/
<table>
<thead>
<tr>
<th>Code</th>
<th>Category</th>
<th>Title/authors/corresponding email</th>
<th>Institution</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 214  | FSE      | THE IMPACT OF SALT STRESS ON GERMINATION, GROWTH AND ONTOGENY OF BARLEY (*HORDEUM VULGARE L*) GENOTYPES FROM ARID AND TEMPERATE REGIONS ¹Muhammad Naem Shahwani¹*, Peter Dominy²  
muhammad.naeem@buitms.edu.pk | Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS) Quetta | Oral |
| 215  | AP       | FINANCIAL REFLECTION OF FERTILITY DISORDERS IN DAIRY HERDS OF KAYSERI PROVINCE, TURKEY  
Savaş Sariözkan¹, Yılmaz Aral², Hakan Murat³, Erol Aydin⁴, Serpil Sariözkan⁵, Yusuf Konca⁶*  
yusufkonca@erciyes.edu.tr | Erciyes Üniversitesi Ziraat Fakültesi, Zootekni Bölümü, Kayseri, Turkey | Oral |
| 216  | AP       | EFFECT OF LIVE YEAST AND ESSENTIAL OIL ADDITION TO DAIRY CATTLE RATIONS ON PERFORMANCE AND MILK QUALITY  
Özlem Köknur, Selma Büyüklılıç Beyzi, Sebahattin Köknur, Yusuf Konca*  
yusufkonca@erciyes.edu.tr | Erciyes Üniversitesi Ziraat Fakültesi, Zootekni Bölümü, Kayseri, Turkey | Oral |
| 217  | ED       | EFFECT OF VARIOUS STABILIZERS ON THE CONSISTENCY OF TOMATO KETCHUP AT DIFFERENT TEMPERATURE OF COOKING  
Talib Hussain, Tahseen Fatima Miano, Yusuf Konca*, Tanveer Fatima Miano  
yusufkonca@erciyes.edu.tr | Erciyes Üniversitesi Ziraat Fakültesi, Zootekni Bölümü, Kayseri, Turkey | Poster |
| 218  | ED       | INPUT LEVELS AND MILK PRODUCTION COST IN DAIRY FACILITIES OF IZMIR PROVINCE  
Nursel Koyubenbe  
nursel.koyubenbe@ege.edu.tr | Ege Üniversitesi Ödemiş Meslek Yüksekokulu, 35750 Ödemiş, Izmir, Turkey | Poster |
EFFECT OF LIVE YEAST AND ESSENTIAL OIL ADDITION TO DAIRY CATTLE RATIONS ON PERFORMANCE AND MILK QUALITY

Özlem Köknur¹ Selma Büyükkılıç Beyzi² Sebahattin Köknur¹ Yusuf Konca²*
¹Saray Agriculture Enterprises Co. Develi-Kayseri
²University of Erciyes, Faculty of Agriculture, Department of Animal Science, Melikgazi-Kayseri
yusufkonca@erciyes.edu.tr

ABSTRACT

This study was conducted to determine the effects of live yeast and essential oil addition to diet on performance and milk composition traits in dairy cattle. In the study, a total of 120 Holstein cows, with 2nd and 3rd lactation period were equally distributed into four treatment groups. Treatment groups were as follows; 1) Control, (C, no yeast and essential oil addition), 2) vegetable essential oil mixture, (0.10 g/day/cattle) 3) Live yeast, (LY, Saccharomyces cerevisiae, 10 g/day/cattle, 4x10⁹ cfu/g) 4) EO+LY (0.10 g/day +10 g/day/cattle). The trial was lasted for 16 weeks and traits were determined each two weeks (8 measurements). Body weight, milk yield and feed efficiency (feed/milk) were not influenced by the treatments. In the EO group, in the 2nd and 3rd milking periods, dry matter content and in 2nd, 3rd, 7th and 8th periods milk fat content were higher than those of other groups (P <0.05). In the 5th, 6th, 7th and 8th milking periods, protein of LY + EO group was lower than other groups (P <0.05). The number of somatic cells in the milk was the highest in group C and significantly lower in group EO (P<0.05). In conclusion, essential oil addition to dairy cow diets may improve milk quality.

Keywords: Dairy cattle, live yeast, essential oil, performance, milk quality