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EDITORIAL

CURRENT TRENDS OF CAMELID RESEARCH

Journal of Camel Practice and Research is becoming a trend setter for documenting the latest camelid research across the world. Research is also gaining momentum in countries where camel population is scarce. Good news is that the world’s first cloned camel is pregnant and another international camel conference in Pakistan is announced. The current issue of JCPR brings encouraging research on dromedary and bactrian camels from across the world. Genetic diversity were studied using microsatellite markers in Tergui’s camel populations (Abahou, Amelal, Alemlagh, Atelagh, Azergah) in the South Algeria (Hoggar region) and Malvi camel breeds in India. Jordanian and Saudi scientists determined the potential role of cellular expression of heat shock proteins in acquiring thermo-tolerance ability in dromedary camels. CVRL, Dubai reports the first isolation of Ignatzschineria indica from a case of animal myiasis. Algerian and Belgium scientists performed a study on fatty acid composition of hump fat stemming from Algerian camels. The scientists from UAE, Germany and Australia used dromedaries to test the safety and efficacy of four different adjuvant formulations (Advax™ HCXL, Advax AF-1, Advax AF-2 or alum) together with four different antigen formulations (B. mallei, C. pseudotuberculosis, C. perfringens, Rhinovirus). Chinese scientists identified the high-affinity melatonin-receptor subtypes expressed in pineal gland of bacterian camel through reverse transcription-polymerase chain reaction (RT-PCR), sequencing and immunohistochemistry. Yet another study by CVRL, Dubai revealed that a high number of dromedary mammary glands were either sterile or harboured only a low number of mainly non-mastitis pathogens. The scientists of Czech Republic found that salivary progesterone and oestradiol measurements are suitable for monitoring different reproductive stages in half-tamed female bactrian camels. Scientists from Algeria, Saudi Arabia and France together analysed the relationship between season, age, breed, and the body condition score, and the prevalence of reproductive abnormalities in female dromedary camels. Another study from Iran investigated the possible use of Milk Amyloid A (MAA) as a sensitive biomarker to detect subclinical mastitis in the lactating dromedary camel. Studies from India had focus on intestinal coccidiosis, Pseudomonas in the foregut, renal lesions, obstructive urolithiasis, dystocia, minerals and electrolytes profile in lactating and pregnant camels, wounds of head and neck, advanced imaging studies on stifle joint and sexual behaviour in dromedaries. Scientists from Kazakhstan, Saudi and France together found the dominant yeast species, i.e. Kazakhstania unispora, Kluyveromyces marxianu in all samples of Shubat and Koumiss. The Saudi scientists studied the effect of antibacterial drugs on activity of lactoperoxidase and lysozyme concentration in milk of camels. Egyptian and Saudi scientists studied the haematological and biochemical profiles in periparturient period of female camels and camel calves and also evaluated the effect of halothane anaesthesia after xylazine/ketamine administration.

The Emirates Industry for Camel Milk & Products (EICMP) has the most advanced and first fully integrated camel milk production ISO certified facility in the world. The whole operation fulfills the strict EU requirements for export into the European Union. EICMP is determined to grow production and to build a strong and sustainable camel milk industry in the UAE as a leading country worldwide.

Camel Publishing House announces yet another publication “Selected Research on Camelid Immunology” which will be released in the last quarter of the year. The team of JCPR extends sincere thanks to all camelid scientists and practitioners for their undoubted preference to this camelid journal which has entered in its 22nd year of publication. Looking forward to receive your continued support.

(Dr. T.K. Gahlot)
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