

JOURNAL OF CAMEL PRACTICE AND RESEARCH

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Subscription : Annual subscribers are advised to send the subscription for the year 2015 and onwards in favour of “**Camel Publishing House**” Bikaner. Renewals should invariably be done before April every year so that the number of subscribers may be ascertained before the next issue of the Journal of Camel Practice and Research (JCPR) is published.

SUBSCRIPTION RATES - 2015

ANNUAL	Rs. 2200/- or US \$ 220
THREE YEARS	Rs. 6600/- or US \$ 660
LIFE MEMBER	Rs. 22,000/- or US \$ 2200

Note : Subscription in Rupees is applicable to Indian subscribers only.

Publisher : The **Journal of Camel Practice and Research** (biannual) is published by the “**Camel Publishing House**” 67, Gandhi Nagar West, Near Lalgah Palace, Bikaner-334001, India. Phone : 0091-151-2527029, email: tkcamelvet@yahoo.com

Cover Design: Dr. T.K. Gahlot

Cover Photo: Sagittal CT scan image of dromedary stifft joint.

Courtesy: Amit Sangwan

Printer: Sankhla Printers, Vinayak Shikhar, Near Polytechnic College, Bikaner-334003, India.

Phone: 0091 - 151 - 2242023

CONTENTS

Volume 22 **June 2015** **Number 1**

S.No. **Title of Contents and Authors** **Page No.**

1.	Genetic diversity and relationships in saharan local breeds of <i>Camelus dromedarius</i> as inferred by microsatellite markers Derradji Harek, Naima Berber, Youcef Amine Cherifi, Hacene Yakhlef, Rachid Bouhadad, Fodil Arbouche, Hocine Sahel, Nour Eddine Djellout, Nadhira Saidi-Mehtar and Semir Bechir Suheil Gaouar	1-9
2.	Genetic and demographic bottleneck analysis of malvi camel breed by microsatellite markers Sushma Prasad, Sharique A. Ali and Vijh R.K.	11-17
3.	Expression analysis of heat shock proteins in dromedary camel (<i>Camelus dromedarius</i>) M.T. Sadler, H.M. Migdadi, A.M. Zakri, K.A. Abdoun, E.M. Samara, A.B. Okab and A.A. Al-Haidary	19-24
4.	First isolation of <i>Ignatzschineria indica</i> in a case of dromedary camel dermal myiasis Chi-Ching Tsang, Jörg Kinne, Ami M.Y. Fung, Shanti V. Jose, Susanna K.P. Lau, Rolf K. Schuster, Ulrich Wernery and Patrick C.Y. Woo	25-26
5.	Fatty acids profile of the dromedary hump fat in Algeria Naima Sahraoui, Mohamed Brahim Errahmani, Olivier Dotreppe, Saliha Boudjenah, Baissa Babelhadj, Djamel Guetarni and Jean-Luc Hornick	27-32
6.	Characterisation of adjuvants for use in dromedary immunisation B. Johnson, F. Dietrich, N. Petrovsky, J. Kinne, R. Wernery and U. Wernery	33-48
7.	The melatonin receptor in the bactrian camel pineal: cloning experiments and distribution studies Hu Junjie, Chang Weihua, Zhang Xiaoyu, Zhang Yong, Zhao Xingxu and Li Fadi	49-54
8.	The microflora of teat canals and udder cisterns in non-lactating dromedaries B. Johnson, M. Joseph, Sh. Jose, S. Jose, J. Kinne and U. Wernery	55-59
9.	Salivary sex steroid hormones in female bactrian camels (<i>Camelus bactrianus</i>) during different reproductive stages T. Fedorova, K. Brandlová, M. Bičková, I. Skálová and D. Lukešová	61-66
10.	Reproductive abnormalities in female camel (<i>Camelus dromedarius</i>) in Algeria: relationship with age, season, breed and body condition score Mohammed Hocine Benaissa, Bernard Faye and Rachid Kaidi	67-73
11.	Milk amyloid a – a potential biomarker to detect subclinical mastitis in lactating dromedary camel S. Ghaffary, A. Niasari-Naslaji, S. Safi, S.H. Shirazi-Beheshtiha, A.B. Atakpour, A. Barin, H. Keshavarz-Tarikhi, H. Arabha, R. Samiei, M. Amjadi, A.A. Haji Moradlou, I. Narimani and A.A. Moosavi-Movahedi	75-78
12.	Occurrence and pathological study of intestinal coccidiosis in camels (<i>Camelus dromedarius</i>) of western Rajasthan S. Kumar, S. Rani, H. Dadhich and M. Mathur	79-84
13.	Molecular characterisation of Pseudomonas isolates from foregut of camel D. Suchitra Sena and N.V. Patil	85-90
14.	Biodiversity study of the yeast in fresh and fermented camel and mare's milk by denaturing gradient gel electrophoresis A. Baubekova, S. Akhmetsadykova, G. Konuspayeva, N. Akhmetsadykov, B. Faye and G. Loiseau	91-95
15.	Effects of antibacterial drugs on camel milk lysozyme concentration and lactoperoxidase activity Mohammed H. Al-Nazawi and A.M. Homeida	97-99

CONTENTS

Volume 22 **June 2015** **Number 1**

S.No. **Title of Contents and Authors** **Page No.**

16.	Haematobiochemical profile in female camels (<i>Camelus dromedarius</i>) during the periparturient period M. Tharwat, A. Ali, F. Al-Sobayil, L. Selim and H. Abbas	101-106
17.	Haematology and serum biochemistry profiles in dromedary camel calves during the first month of age Mohamed Tharwat, Fahd Al-Sobayil and Wael EL-Deeb	107-112
18.	Histopathological studies on renal lesions in dromedary camel (<i>Camelus dromedarius</i>) Karmveer Saini, H. Dadhich, M. Mathur and Ashutosh Tripathi	113-119
19.	Minerals and electrolytes profile in lactating and pregnant Indian camels Sajjan Singh, R.K. Dedar, R.A. Legha, P.A. Bala and N.V. Patil	121-124
20.	A clinical study on occurrence of diverse wounds at head and neck region of camels (<i>Camelus dromedarius</i>) S. Gharu and T.K. Gahlot	125-131
21.	Advanced imaging studies on normal stifle joint of camel (<i>Camelus dromedarius</i>) A. Sangwan and T.K. Gahlot	133-139
22.	Surgical management of urinary retention in three camels (<i>Camelus dromedarius</i>) B.L. Kaswan, Mahendra Tanwar, N.R. Purohit and T.K. Gahlot	141-144
23.	Studies on sexual behaviour in female dromedary camel (<i>Camelus dromedarius</i>) A.S. Mahla, S. Vyas, Harendra Kumar, G. Singh, G.K. Das, Ashok Kumar and K. Narayanan	145-149
24.	Evaluation of halothane anaesthesia after xylazine/ketamine administration in dromedary camels (<i>Camelus dromedarius</i>) A.F. Ahmed, F.A. Alsobayil and O.S. El-Tookhy	151-158
25.	Management of dystocia in a dromedary camel Tejpal, Ashok Kumar Chaudhary, Yogesh Soni, Vinod Dudi, Pramod Kumar and J.S. Mehta	159-160
27.	News	132,140
28.	Instructions to Contributors	161-162

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, Azerghaf) 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 bactrian 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)
Editor

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