

11<sup>th</sup> International

# VETERINARY CONGRESS

July 02-03, 2018 Berlin, Germany

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## Recent trends of camel research-an overview (2013-2017)

Camel researchers from many countries are engaged in camel research and an overview of last five years (2013-2017) through publications in Journal of Camel Practice and Research indicates a greater focus of research in camelid physiology (11.11%), followed by camel milk and pathology (10.34% each), parasitology (9.2%), diseases (8.81%), immunology (5.75%), microbiology (5.36%), reproduction (4.98%), surgery, anatomy and nutrition (4.6% each), anaesthesia (4.21%), production (3.45%), imaging and pharmacology (3.06% each), meat (2.68%), genetics and breeding (2.3%) and serology/vaccinology (1.53%). 2013 A female racing camel calf was born with artificial insemination with frozen camel semen. Research on genes of *Trypanosoma evansi*, pharmacokinetics of danofloxacin, nutritional research on oat straw and groundnut haulms, camel meat and milk research, anatomy and reproductive endocrinology, contagious ecthyma infection, listeriosis in South American camelids, was done. 2014 MERS-CoV was recovered from nasal swabs of dromedaries. No evidence was found of *Mycoplasma haemolamae* and *Anaplasma marginale*. Molecular identification of lactic acid bacteria, *Laswonia intracellularis*, *Babesia species* and *Corynebacterium pseudotuberculosis* was done. 25 polymorphic microsatellite loci were used for genotyping some camel types & subtypes. 2015 World's first cloned camel became pregnant. Genetic diversity was studied using microsatellite markers in camel breeds. First isolation of *Ignatzschineria indica* was done. High-affinity melatonin receptor subtypes expressed in pineal gland of Bactrian camel through RT-PCR. Production of a caseous lymphadenitis vaccine took place. 2016 Molecular characterization of actin gene of *Trypanosoma evansi*, molecular modeling and docking study of acetylcholinesterase, ocular affections and a series of ultrasonographic studies on thoracic, abdominal and urinary affections were done. 2017 Immunization of dromedaries with live attenuated *Brucella melitensis* Rev 1 vaccine, kidney affections, renal cell carcinoma, uterine leiomyoma, pathogenic bacterial strains of raw camel milk and squamous cell carcinoma, imaging studies on stifle joint, identification and molecular cloning of heat shock protein-70 were done.

## Recent Publications

1. Alfuwaires M, Altaher A, Alhafufi A and Kandeel M (2017). Middle east respiratory syndrome coronavirus in healthy and diseased dromedaries. Journal of Camel Practice and Research 24(3)217-220 (DOI : 10.5958/2277-8934.2017.00036.4).
2. Atta AH, El-Sayed HAE, El-Hadaky AYA, Kamel E and Sdeek Fayza A (2017). Pharmacokinetics of cefquinome following intravenous and intramuscular injection in camels. Journal of Camel Practice and Research 24(3)239-245 (DOI : 10.5958/2277-8934.2017.00041.8)
3. Wernery U (2017). Serological survey, an important tool for camel disease status of a zone or a country. Journal of Camel Practice and Research 24(2) 113-115 (DOI : 10.5958/2277-8934.2017.00018.2)
4. Wang ZX, Qiao XY, Hao SN and Ji R (2017). Demonstration of hepatoprotective action of camel milk through improving antioxidant activity and regulating gene expression in mice. Journal of Camel Practice and Research 24(2)169-174 (DOI : 10.5958/2277-8934.2017.00026.1)
5. Ahmed Mohamed Mohamed (2017). Molecular cloning and tissue expression pattern of partial hepatic growth factor cDNA in arabian camel (*Camelus dromedarius*). Journal of Camel Practice and Research 24(2)183-188 (DOI : 10.5958/2277-8934.2017.00029.7).

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## Biography

T K Gahlot is a Professor of veterinary surgery in Rajasthan University of Veterinary and Animal Sciences, Bikaner, India. He is Editor-in-Chief of Journal of Camel Practice and Research. He has developed lots of surgical techniques of dromedary camel and has published more than 150 clinical and research papers on this aspect. He has edited and authored more than five books on camels and three proceedings of international camel conference. He has successfully organized a special session on "Advances in Camel Science" at 7<sup>th</sup> International Veterinary Congress held on September 04-06, 2017 at Paris, France. Special session on camels with a theme "Camel Research: Challenges and Opportunities" will be organized by him in 11<sup>th</sup> International Veterinary Congress at Berlin, Germany scheduled on 2-3 July 2018.

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