

CONTENTS

Pest and Pest Control

- TAHIR, H.M., BANO, M., NOOR, T., IRFAN, M., NAWAZ, S., KHAN, S.Y. AND MUKHTAR, M.K. Effect of thiodan on survival, behaviour and predatory performance of a spider, *Plexippus paykulli* (Savigny et Audouin, 1827) 593
 MAHMOOD, R., ASAD, S., RAJA, S., MOSHIN, A.U., WAGCHOURE, E.S., SARWAR, G., ISLAM, N. AND AHMAD, W. Control of *Varroa destructor* (Acari: Varroidae) in *Apis mellifera* (Hymenoptera: Apidae) by using plant oils and extract 609
 RAZAQ, M., ABBAS, G., FAROOQ, M., ASLAM, M. AND ATHAR, H.R. Effect of insecticidal application on aphid population, photosynthetic parameters and yield components of late sown varieties of canola, *Brassica napus* L. 661
 AHMED, A.M., ABDEL-MEGEED, A.A.M. AND ALQAHTANI, H.M. A novel mosquitocidal bacterium as a biocontrol agent in Saudi Arabia: II- A promising larvicide against *Culex pipiens* mosquito 773
 NADEEM, S., HAMED, M., ASGHAR, M.J., ABBAS, G. AND SAEED, N.A. Screening of mungbean (*Vigna radiata* (L.) Wilczek) genotypes against sucking insect pests under natural field conditions (S.C.) 863

Wildlife

- FAZAL, S., MANZOOR, F., KHAN, B.N., SHEHZADI, A. AND PERVEZ, M. Comparative behavioral study of male nile hippopotamus (*Hippopotamus amphibius*) after pairing at Lahore Zoo 601
 WANG, Y., WANG, Y., TAO, S., CHEN, X., KONG, Y., SHAH, A., YE, C. AND PANG, M. Using infra-red camera trapping technology to monitor mammals along Karakorum Highway in Khunjerab National Park, Pakistan 725
 YANG, K., LUO, X. AND LIU, W. Differentiation and phylogenetic relationship of different geographic populations of Tibetan chicken, *Gallus gallus domesticus* 833

Genetics / Molecular Biology / Bioinformatics

- CHEN, J., LIU, Z., WANG, Z., YANG, S. AND LI, K. Distribution characteristics of alleles of classical SLA-I and II genes and bioinformatic analysis of novel alleles in Guizhou miniature pigs 617
 SHI, H., FU, Q., QIAO, J., ZHANG, H., WANG, P., SHI, M., CHEN, C. AND REN, Y. Stable expression of T7 RNA polymerase mediated by lentivirus in MDBK cells 643
 SAMI, A.J., AHMAD, N. AND SHAKOORI, A.R. Computational analysis of an acidic lipase of *Tribolium castaneum* 805
 MUNIR, J., IQBAL, Z., SALEEM, M., SHAKOORI, F.R., MAHMOOD, Z., SHAKOORI, A.R., AND NASIR-UD-DIN. The 3D modeling and characterization of wild type and mutated *Plasmodium falciparum* cytochrome B: A computational approach 841

Infectious Diseases

- GUAN, X., LI, Y., LIU, J., CHAI, H., WANG, Y. AND HUA, Y. Evaluation of specific pathogen-free ducks infected with the highly pathogenic avian influenza virus H5N1 subtype derived from wild birds 625

Environmental Pollution

- BIBI, Z., KHAN, Z.I., AHMAD, K., ASHRAF, M., HUSSAIN, A. AND AKRAM, N.A. Vegetables as a potential source of metals and metalloids for human nutrition: A case study of *Momordica charantia* grown in soil irrigated with domestic sewage water in Sargodha, Pakistan 633

Parasitology

- IQBAL, Z. AND HAROON, F. Parasitic infections of some freshwater ornamental fishes imported in Pakistan 651
 ABDEL-BAKI, A.A.S. AND AL-QURAISHY, S. First record of *Chilodonella* spp. (Ciliophora: Chilodonellidae) in cultured

Nile Tilapia (<i>Oreochromis niloticus</i>) in the Central Region of Saudi Arabia	657
BAUOMY, A.B., DKHIL, M.A., DIAB, M.S.M., AMER, O.S.O., ZRIEQ, R.M. AND AL-QURAISHY, S. Response of spleen and jejunum of mice infected with <i>Schistosoma mansoni</i> to mulberry treatment	753
DKHIL, M.A., MONEIM, A.E.A. AND AL-QURAISHY, S. Berberine protects against <i>Schistosoma mansoni</i> -induced oxidative damage in renal and testicular tissues of mice	763
MURSLAIN, M., JAVED, N., KHAN, S.A., KHAN, H.U., ABBAS, H. AND KAMRAN, M. Combined efficacy of <i>Moringa oleifera</i> leaves and a fungus, <i>Trichoderma harzianum</i> against <i>Meloidogyne javanica</i> on eggplant	827
KEPENEKCI, İ., TOKTAY, H. AND EVLICE, E. Plant parasitic and virus vector nematodes associated with vineyards in the Central Anatolia Region of Turkey (S.C.)	866
AZHAR, M., IJAZ, M. AND ALI, M.M. Prevalence and chemotherapy of theileriosis in clinical affected equines of Lahore District, Pakistan - A review of 300 cases (S.C.)	870
ALI, A., IJAZ, M., DURRANI, A.Z., ALI, M.M., MEHMOOD, K. AND SABIR, A.J. Prevalence and chemotherapy of anaplasmosis in clinically affected small ruminants in the River Ravi Region, Lahore (S.C.)	876
<hr/> Fisheries / Aquaculture <hr/>	
HEKIMOGLU, M.A., SÜZER, C., KOP, A., SAKA, Ş. AND FIRAT, K. Comparison of ontogenetic development and digestive enzymes in ornamental goldfish (<i>Carassius auratus auratus</i> L.) larvae fed with decapsulated cysts and nauplii of <i>Artemia</i>	669
MAHBOOB, S. Replacing fish meal with a blend of alternative plant proteins and its effect on the growth performance of <i>Catla catla</i> and <i>Hypophthalmichthys molitrix</i>	747
MAHBOOB, S. AND AL-GHANIM, K.A. Effect of poultry droppings on the primary productivity and growth performance of major carps in polyculture system	799
<hr/> Entomology <hr/>	
KAMRAN, M., ALATAWI, F.J. AND BASHIR, M.H. First record of genus <i>Ledermeulleriopsis</i> Willmann (Acari: Stigmeidae), with a new species from Pakistan	677
MART, A., TOLAN, R., CAF, F. AND KOYUN, M. A faunistic study on aquatic Coleoptera (Helophoridae: Hydrophilidae) species in Elazığ Province, Turkey	681
ÖZDIKMEN, H., CIHAN, N. AND KAYA, G. A survey of Turkish <i>Stenocorus</i> Geoffroy, 1762 (Coleoptera: Cerambycidae) with a new species <i>Stenocorus</i> (s.str.) <i>guveni</i>	697
AHMED, Z., MEREGALLI, M. AND RAZA, H. A new record of the weevil <i>Pycnodactylopsis tomentosa</i> (Fåhraeus, 1842) (Coleoptera: Curculionidae) from Sindh, Pakistan (Note)	888
<hr/> Microbiology <hr/>	
KHAN, I., AWAIS, M., SHAH, M., SHAH, T.A., AHMED, S., JUNAID, M. AND AHMED, S. Bacteriological analysis of Siran River system for fecal contamination and metallo-β-lactamase <i>blaNDM-1</i> gene	707
<hr/> Toxicology / Teratology <hr/>	
ASMATULLAH, ARA, C., ANDLEEB, S., ZAFAR, A. AND TAHIR, M. Rifampicin induced embryotoxicity in <i>Mus musculus</i> ...	717
<hr/> Biotechnology <hr/>	
NADEEM, S., NIAZ, B., RAJOKA, M.I., AL-GHANIM, K.A., MUZAMMIL, H.M., MAHBOOB, S., NADEEM, A., YOUSAF, S. AND SHAKOORI, A.R. Optimizing different vitamins for L-glutamic acid production by <i>Brevibacterium</i> strain NIAB SS59	733
AKHTAR, N., JAVED, M.M., ZAHOOR, S., BABAR, M.E. AND HAQ, I.U. Rapid isolation/selection of best yeast culture and its metabolic control for the biotransformation of benzaldehyde to 1-hydroxy-1-phenyl-2-propanone	783
KHAN, A. AND NAQVI, A.N. A comparative study of wool quality of sheep breeds in Gilgit-Baltistan, Pakistan (S.C.)	873
<hr/> Cell Biology <hr/>	
SALEEM, U., AHMAD, B., AHMAD, M.,	

- HUSSAIN, K., BUKHARI, N.I. AND ANJUM, A.A. Determination of cytotoxicity of latex and methanol extract of *Euphorbia helioscopia* leaves on vero cell line with MTT assay 741

Physiology / Biochemistry

- HUANG, S., LI, L., WU, J., LI, C.M., BAI, J.Y., SUN, Y. AND WANG, G.L. Metabolomic studies of urinary metabolic profiling in Sichuan golden monkey, *Rhinopithecus roxellana* 789
- BANO, A., AYUB, Z. AND SIDDIQUI, G. Fatty acid composition of three species of *Siphonaria* (Gastropoda: Pulmonata) in Pakistan 813
- RAHMAN, M. R., RAHMAN, M.M., WAN KHADIJAH, W.E. AND ABDULLAH, R.B. Comparison of superovulatory effect of equine chorionic gonadotrophin and follicle stimulating hormone on embryo production in crossbred (Boer × Katjang) goats 819
- ALI, N.S., ALI, S.S. AND SHAKOORI, A.R. Biochemical response of malathion-resistant and -susceptible adults of *Rhyzopertha dominica* to the sublethal doses of deltamethrin 853
- KHAN, H., RIND, M.M., MEHMOOD, M.U., SHAHZAD, Q., GOHAR, A., ALAM, M., ALI, Q. AND KUMBAR, H.K. Biometric assessment of the testis in Pakistani adult male goats (*Capra hircus*) (S.C.) 880
- IJAZ, A., TARIQ, M.M., GULMAKAI, NAJAMUNNISA, RUKHSANA, AQALMINA, AMEEN, S., RAFEEQ, M., JAN, S., AND AHMAD, Z. The study of anemia in relation to the socio-demographic factors in pregnant females of Quetta, Balochistan (S.C.) 885