

C O N T E N T S

Entomology / Pest and Pest Control

SIDDIQUI, H., AHMED, Z. AND KHATRI, I.
Distributional notes and new records for
the dung beetles (Coleoptera:
Scarabaeidae: Scarabaeinae) of Pakistan295

SHERAWAT, S.M. AND BUTT, A. Role of
hunting spiders in suppression of wheat
aphid309

SHAH, S.I.A. The cotton stainer (*Dysdercus
koenigii*): An emerging serious threat for
cotton crop in Pakistan329

HONEY, S.F., SARWAR, Z.M., BASHIR,
H.M., ALI, S., KAMRAN, M. AND
AFZAL, M. Two new species of
Acotyledon Oudemans, 1903 (Acari:
Acaridae) infesting stored chickpea, *Cicer
arietinum*, from Pakistan479

QASIM, M., NAEEM, M. AND BODLAH, I.
Mosquito (Diptera: Culicidae) of Murree
hills, Punjab, Pakistan523

ALI, M., SAEED, S., SAJJAD, A. AND
BASHIR, M.A. Exploring the best native
pollinators for pumpkin (*Cucurbita pepo*)
production in Punjab, Pakistan531

KHAN, S.Y., TAHIR, H.M., AHSAN, M.M.,
MALIK, H.T. AND BUTT, A. Estimation
of adult density of *Aedes albopictus*
(Diptera: Culicidae) in some hilly areas of
Pakistan (S.C.)567

RAZAQ, M., HANEEF, Q.H., ATHAR, H.R.,
NASIR, M. AND AFZAL, M. Interactive
effect of nitrogen and insecticide on
jassid, *Amrasca devastans* (Dist.)
population and photosynthetic capacity of
okra *Abelmoschus esculentus* (L.) Moench
(S.C.)577

Physiology

IQBAL, M.F., LUO, Y.-H., HASHIM, M.M.
AND ZHU, W.-Y. Evaluation of genistein
mediated growth, metabolic and anti-
inflammatory responses in broilers317

SU, Z., TENG, Z., GUANG-JUN, C., RUI, Y.,
NAEEM, M., RAJPUT, N. AND XIANG-
ZHEN, S. The metabolism of volatile fatty
acids by portal-drained viscera and liver of
goats fed diets with different forage to
concentrate ratio391

RAHMAN, A., SAIMA, PASHA, T.N.,
YOUNUS, M., ABBAS, Y. AND DITTA,
Y.A. Effect of multi-enzymes
supplementation on growth performance
of broiler417

AL-QURAI SHY, S., METWALY, M.S.,
DKHIL, M.A., GEWIK, M.M., HASSAN,
A.M.S. AND ZRIEQ, R. Palm pollen as
growth and metabolic enhancer during the
course of murine intestinal eimeriosis423

AL-QURAI SHY, S., SHERIF, N.E.,
METWALY, M.S. AND DKHIL, M.A.
Berberine-induced amelioration of the
pathological changes in nutrient's
homeostasis during murine intestinal
Eimeria papillata infection437

ZHU, W.-L., ZHANG, L., GAO, W.-R., YU,
T.-T. AND WANG, Z.-K. Effects of
temperature and diet on energy budget and
hormone concentrations in South China
field mouse, *Apodemus draco*, from
Hengduan Mountain Region485

CHAND, N., NAZ, S., SHAH, Z., KHAN, S.,
SHAH, A.A. AND KHAN, R.U. Growth
performance and immune status of
broilers fed graded levels of *Albizia
lebbek* seeds (S.C.)574

Fish Biology & Fisheries

MERT, M. AND BULUT, S. Some biological
properties of carp (*Cyprinus carpio* L.,
1758) introduced into Damsa Dam Lake,
Cappadocia Region, Turkey337

KHAN, N., ASHRAF, M., MUGHAL, M.S.,
QURESHI, N.A., KHAN, M.N.,
RASOOL, F., REHMAN, M.H., NASIR,
M., ALI, W. AND IQBAL, K.J. Survival
and growth potential of genetically male
tilapia (GMT) fry in flow through system
under different dietary protein
concentrations377

PUNHAL, L., LAGHARI, M.Y., NAREJO,
N.T., ZHANG, X., XU, P., SUN, X. AND
ZHANG, Y. QTL for short-duration
vigorous swimming movements in
common carp (*Cyprinus carpio* L.) based
on LDH activity383

BAŞUSTA, A., ÖZER, E.I., GIRGIN, H.,
SERDAR, O. AND BAŞUSTA, N.

Length-weight relationship and condition factor of <i>Hippocampus hippocampus</i> and <i>Hippocampus guttulatus</i> inhabiting eastern black sea	447
AMIR, S.A., SIDDIQUI, P.J.A. AND MASROOR, R. A new sparid fish of genus <i>Sparidentex</i> (Perciformes: Sparidae) from coastal waters of Pakistan (North Western Indian Ocean).....	471
YILDIRIM, Ö., ACAR, Ü., TÜRKER, A., SUNAR, M.C. AND KESBIÇ, O.S. Effects of replacing fish meal with peanut meal (<i>Arachis hypogaea</i>) on growth, feed utilization and body composition of Mozambique tilapia fries (<i>Oreochromis mossambicus</i>)	497
<hr/>	
Palaeontology	
KHAN, M.A., ALI, S., IQBAL, J. AND AKHTAR, M. Some new remains of Hipparionine (Equidae: Mammalia) from Dhok Pathan Upper Miocene, Northern Pakistan	347
KHAN, M.A., IQBAL, J., ALI, S. AND AKHTAR, M. New remains of <i>Tragoportax</i> (Boselaphini: Bovidae: Mammalia) from middle Siwaliks of Dhok Pathan, Northern Pakistan	463
<hr/>	
Cell Biology / Molecular Biology / Bioinformatics	
HASHMI, F.K., CAIL, R., ISLAM, M., SALEEM, Z., AMIN, U., HUSSAIN, K. AND SAEED, H. Adaptation of WM-68 hybridoma cell-line in minimal serum and serum free culture conditions	355
XIONG, H., HE, X., ZHANG, W., LI, C., LI, M., GUAN, W. AND MA, Y. Establishment and characterization of a fibroblast line from duroc	363
QAZI, W.M., IQBAL, Z., KHAN, M.S., REHAN, M., MUNIR, J., SHAKOORI, A.R. AND NASIR-UD-DIN. GEARS: A genetic algorithm based machine learning technique to develop prediction models	409
IRUM, S., QAYYUM, M., DONSKOW-LYSONIEWSKA, K., HAQ, M.Z. AND STEAR, M.J. Genetic variability in β -tubulin-1 in benzimidazole resistant <i>Haemonchus contortus</i> from sheep in north-east Punjab, Pakistan	431
BARAKAT, I.A.H. AND AL-HIMAIDI, A.R. Imbalanced dietary mineral intake induced cellular inflammation in murine liver and Kidney	517
EL-BAKRY, A.M. AND SHIN-ICHI IWASAKI, S.-I. Ultrastructure and histochemical study of the lingual salivary glands of some bird species	553
AHMAD, A., SHAH, A. AND SHAKOORI, A.R. Anti-proliferative effect of arsenic, cadmium and lead on human placental chorion cells	561
SAMI, A.J., ALI, M. AND SHAKOORI, A.R. Growth promoting activity of crude protein extract of ruminant placental peptides (S.C.)	580
<hr/>	
Biodiversity / Wildlife	
DEMIRBAŞ, Y. Studies on the hair characteristics of European hare, <i>Lepus europaeus</i> (Lagomorpha: Leporidae) in Turkey	371
SHAO, M., JIANG, J., GUO, H. AND ZENG, B. Abundance, distribution and diversity variations of wintering water birds in Poyang Lake, Jiangxi Province, China	451
ARSHAD, M., MEHMOOD, N., MUQADAS, H., CHAUDHRY, J., MUSTAFA, I., KHAN, M.R., MALIK, I.U. AND AHMED, H. Avifauna studies in correlation with alteration in climatic patterns and hydrology of Uchalli Lake, Punjab, Pakistan	503
<hr/>	
Animal Diseases / Parasitology	
JAVED, K., IJAZ, M., ALI, M.M., KHAN, I., MEHMOOD, K. AND ALI, S. Prevalence and hematology of tick borne hemoparasitic diseases in equines in and around Lahore	401
YU, Y., LIU, H., ZENG, L., ZHANG, G. AND ZHU, A. A new record of <i>Paratylenchus lepidus</i> (Nematoda: Tylenchulidae) associated with Ramie Root in Yuanjiang, Hunan Province, China (S.C.)	583
FAZAL, S., CHEEMA, K.J., MAQBOOL, A. AND MANZOOR, F. Assessment of biological and physical environmental risk factors of sarcoptic mange in pet dogs (S.C.).....	587
<hr/>	
Marine Biology	
RASHEED, S., MUSTAQUIM, J. AND KHANAM, S. Some external abnormalities found in edible crabs, <i>Portunus pelagicus</i> and <i>P. sanguinolentus</i> , of Pakistan	541

Biochemistry

TAHIRA, I., MAHMOOD, A., SAQLAIN, M.,
HANIF, N.Q. AND RAJA, G.K. Study of
 β -lactoglobulin milk protein variants in
buffalo549

Toxicology

KHAN, Z.I., AHMAD, K., MUKHTAR, M.K.,
SHAHEEN, M., BIBI, Z., NAQVI,
S.A.H., RAZA, N. AND SHER, M.
Evaluation of cadmium profile of blood
plasma in lactating cows: A case study
(S.C.)570