

CONTENTS

Molecular Biology / Genetics

- DUAN, J., WEI, G., XU, D., LIU, K., FANG, D. AND XU, P. Δ^6 fatty acid desaturase gene in estuarine tapetail anchovy (*Coilia nasus*): structure characterization and mRNA expression under different dietary and fasting conditions 915
 BAI, J.Y., JIA, X.P., YANG, Y.B., PANG, Y.Z. AND QI, Y.X. Polymorphism analysis of *LH β* gene in sheep 931
 AL-ARIFA, N. AND JAHAN, J. Association of glutathione-S-transferase P1 (*GSTP1*) and group-specific component (*GC*) polymorphism with the risk of asthma in Pakistani population 937
 FIAZ, M., RANI, F., SAQLAIN, M., MAHMOOD, A., SHAIQ, P.A., NAQVI, S.M.S., QAIZI, R.A. AND RAJA, G.K. Identification of population specific risk phenotypes contributing towards development of metabolic syndrome 949
 HAMIDA, SAJID, T., BIBI, A., TARIQ, N., SAJJAD, N., UMER, K., ALI, M. AND IQBAL, R. Incidence of protanopia and deuteranopia, defects of colour vision in Quetta, Pakistan 1045
 SHAHID, S.U., SHABANA, COOPER, J.A., REHMAN, A. AND HUMPHRIES, S.E. Association of *ACE* and *NOS3* gene polymorphism with blood pressure in a case control study of coronary artery disease in Punjab, Pakistan 1125

Physiology

- KHAN, I., QURESHI, M.S., AKHTAR, S., ALI, I. AND GHUFRAULLAH. Fertility improvement in cross-bred dairy cows through supplementation of vitamin E as antioxidant 923
 KARAKUŞ, K., MERT, N., MERT, H., YÖRÜK, I., AYGÜN, T. and Tariq, M.M. Relationship between vitamin composition and spermatological characteristics in semen of different ram breeds of Turkey 969

- MAHMOUD, A.E.M. AND EL-BORDENY, N.E.S. The nutritive value of sugar beet pulp-substituted corn for Barki lambs 995
 BIBI, C., KHAN, A., SHAH, N., RAZIQ, S., MUHAMMAD AND YOUSAFZAI, A.M. Size dependent variation in cholesterol and fatty acids profile of different tissues of carnivore freshwater catfish, *Wallago attu* 1017
 AFZAL, M., AMANAT, A., SHAH, S.Z.H. AND HUSSAIN, S.M. Effect of acidification in a phytase sprayed sunflower meal based diet on growth and dietary nutrient digestibility performances of *Labeo rohita* juveniles 1165
 IQBAL, A., KAKAR, A., REHMAN, M., IRAM, S., GUL, S. AND PANEZAI, M.A. Analysis of immune response in goats *Capra hircus lehri* against different doses of cement cone extract antigen taken from ticks (Ixodidae) emulsified with different adjuvants 1179
 AZAM, A.R., KHAN, N. AND IQBAL, K.J. Impact of azomite supplemented diets on the growth, body composition and endogenous enzymes in genetically male tilapia (*S.C.*) 1205

Wildlife, Biodiversity

- KAYAHAN, A. AND TABUR, M.A. Diet composition of little owl (*Athene noctua* Scopoli, 1769) in Turkey 943
 SIDDIQUE, M. AND KHAN, A.A. Spatio-temporal decline of Himalayan griffon (*Gyps himalayensis* Hume, 1869) in Azad Jammu and Kashmir, Pakistan 961

Continued on page 1217

[Covered by ISI Web of Knowledge, Abstracted and indexed in *Biological Abstracts*, *Chemical Abstracts*, *Zoological Records*, *Information Retrieval Limited*, London, *Service Central De Documentation De L'ORSTOM*, Paris and *National Inquiry Services Centre*, South Africa, Contents accessible via *EBSCO host*™].

MENAA, M., MAAZI, M.C., TELAILIA, S., SAHEB, M., BOUTABIA, L., CHAFROUR, A. AND HOUHAMDI, M.	
Richness and habitat relationships of forest birds in the Zeen Oak Woodland (Forest of Boumezrane, Souk-Ahras), Northeastern Algeria	1059
LI, X., ZHANG, X., XU, X., LV, S., ZHAO, Y., CHEN, D., HOU, C., CHEN, B. AND YANG, G.	
Bird diversity in the buffer zone of the largest coastal nature reserve of China and conservation implications	1193
ALI, W., JAVID, A., HUSSAIN, S.M., AZMAT, H. AND JABEEN, G.	
The amphibians and reptiles collected from different habitat types in district Kasur, Punjab, Pakistan (S.C.).....	1201
FAIZ, A.H. AND ABASS, F.	
Mammalian diversity of Tolipir National Park, Azad Jammu and Kashmir, Pakistan (S.C.).....	1209
NAZIR, K., MUSHTAQ, M., NAEEM, M.	
AND NASIR, M.F. A note on diversity of termites in Taxila, Rawalpindi, Pakistan (S.C.)	1213

Livestock Products

EYDURAN, E., KESKIN, I., ERTURK, Y.E., DAG, B., TATLIYER, A., TIRINK, C., AKSAHAN, R. AND TARIQ, M.M.	
Prediction of fleece weight from wool characteristics of sheep using regression tree method (Chaid Algorithm)	957

Entomology

MEMON, N., PARVEEN, R., AHMAD, I. AND SHAIKH, A.M.	
Description of a new species of oriental genus <i>Halys</i> (Pentatomoidae: Pentominae: Halyini) from Lahore, Punjab, Pakistan	977
KHAN, J., SAIFULLAH AND ZIA, A.	
Biodiversity of dragonflies and their life threatening factors in Tehsil Chamla and Daggar of District Buner, Khyber Pakhtunkhwa, Pakistan	1077

Pest and Pest Control

JUNAID, K., KHAN, S.A., KHAN, I., SHAH, S.R.A. AND KHAN, Z.	
Study on different components of resistance in wheat genotypes to green bug (<i>Schizaphis graminum</i>) (Rondani).....	981
SATTAR, M., MEHMOOD, S.S., KHAN, M.R. AND AHMAD, S.	
Influence of egg	

parasitoid <i>Trichogramma chilonis</i> Ishii on sugarcane stem borer (<i>Chilo infuscatellus</i> Snellen) in Pakistan	989
---	-----

AHMAD, T., HASSAN, M.W., JAMIL, M. AND IQBAL, J.	
Population dynamics of aphids (Hemiptera: Aphididae) on wheat varieties (<i>Triticum aestivum</i> L.) as affected by abiotic conditions in Bahawalpur, Pakistan	1039
MAJEED, M.Z., JAVED, M., KHALIQ, A. AND AFZAL, M.	
Estimation of losses in some advanced sorghum genotypes incurred by red flour beetle, <i>Tribolium castaneum</i> L. (Herbst.) (Tenebrionidae: Coleoptera)	1133

Animal Diseases

AHMAD, S. AND TASAWAR, Z.	
Seroprevalence of toxoplasmosis in small ruminants from Cholistan desert and agricultural areas of Rahim Yar Khan and Rajan Pur (Punjab) Pakistan	1003
YARIM, G.F. YAGCI, B.B., ERTEKIN, A. AND KAZAK, F.	
Decreased serum adenosine deaminase activity correlated with clinical score and serum proteins in calves with cryptosporidiosis	1033

Food & Nutrition

INAM, M., SHAFIQUE, R.H., IRFAN, M., ISMAIL, M., ABBAS, S. AND ROOHI, N.	
Prevalence of multiple foods sensitization in Pakistani population	1009
IMRAN, S., KALSOOM, S., HUSSAIN, Z., ULLAH, O. AND NAGRA, S.A.	
Nutritional and sensory evaluation of the formulated gluten free flour and its effect on the gastrointestinal symptoms of celiac patients	1025
RAHIM, A., ABBAS, G., FERRANDO, S., GALLUS, L., GHAFAR, A., MATEEN, A., REHMAN, M.H. AND WARYANI, B.	
Effects of varying dietary protein level on growth, nutrient utilization and body composition of juvenile Blackfin Sea Bream, <i>Acanthopagrus berda</i> (Forsskal, 1775)	1089

Palaeontology

SIDDIQ, M.K., KHAN, M.A. AND AKHTAR, M.	
<i>Bos</i> (Mammalia: Bovidae) from the Pinjor Formation of Sardhok, Pakistan	1071

Parasitology

- SULEMAN, JEHAN, N., KHAN, M.S. AND KHAN, A. *Tamerlania swabiensis*, new species (Digenea: Eucotylidae Skrjabin, 1924) in house crow, *Corvus splendens* of District Swabi, Khyber Pakhtunkhwa, Pakistan 1083
- BILQEES, F.M., KHALIL, B., KHAN, A., PERVEEN, S. AND HASEEB, M.F. A new subfamily asymmetrinae (Trematoda: Fellodistomidae) with *Asymmetra magnacirrosa* n.gn. n.sp. from the fish, *Sparus berda* (Forsk.) of Karachi Coast 1164

Fish Biology & Freshwater Biology

- HOSSAIN, M.Y., RAHMAN, M.M., BAHKALI, A.H., YAHYA, K., AREFIN, M.S., HOSSAIN, M.I., ELGORBAN, A.M., HOSSEN, M.A., ISLAM, M.M. AND MASOOD, Z. Temporal variations of sex ratio, length-weight relationships and condition factor of *Cabdio morar* (Cyprinidae) in the Jamuna (Brahmaputra River Distributary) River, Northern Bangladesh 1099
- YIGIN, C.C. AND ISMEN, A. Age and growth of spiny dogfish *Squalus acanthias* (Squalidae: Chondrichthyes) in the North Aegean Sea 1185
- ŞEREFLİŞAN, H. AND GÖKÇE, M.A. Growth performance of the freshwater mussel, *Unio terminalis delicata* (Lea, 1863) (Mollusca: Bivalvia: Unionidae) in the Gölbasi Lake, Turkey 1109

Biochemistry, Nanotechnology, Biotechnology

- ALI, S. AND AYESHA TAJ, A. Direct production of an extracellular tyrosinase from *Rhizopus oryzae* NRRL-1510 by solid substrate fermentation 1051
- AHMED, S. AND SAMRA, Z.Q. Engineering transferrin and epirubicin onto magnetic nanoparticles for targeting drug delivery through transferrin receptors 1117
- RAFIQ, S., HUMA, N., PASHA, I. AND SHAHID, M. Compositional profiling and proteolytic activities in cow and buffalo milk cheddar cheese 1141
- ATTA, A., ILYAS, A., HASHIM, Z. AND ZARINA, S. Structure function relationship of lactate dehydrogenase/ ϵ -crystallin from lenses of indian spiny-tailed lizard (*Uromastyx hardwickii*) 1147

Microbiology

- XUE, Y., CHEN, J., HUA, Y., ZHANG, W., LIU, S. AND LIU, D. Antimicrobial resistance and resistance gene determinants in clinical *Escherichia coli* from a captive population of Amur Tiger in China 1155

Toxicology

- SULTANA, T., BUTT, K., SULTANA, S., AL-GHANIM, K.A., MUBASHRA, R., BASHIR, N., AHMED, Z., ASHRAF, A. AND MAHBOOB, S. Histopathological changes in liver, gills and intestine of *Labeo rohita* inhabiting industrial waste contaminated water of River Ravi 1171
- Obituary Note 1216