

CONTENTS

Microbiology

- YUJIAO, H., HUICHUN, X., GONGHUA, L., TONGZUO, Z., JIANPING, S AND YURONG, D. Characterization of bacterial microbial diversity in wild yak and domestic yak in Qiangtang region of Tibet 1001
 GOWDA, G.B., PATIL, N.B., SAHU, M., PRABHUKARTHIKEYAN, S.R., RAGHU, S., PANDI, G.P., ADAK, T., SWAIN, C.K., POKHARE, S., MOHAPATRA, S.D. AND RATH, P.C. Differential gut bacteria in phosphine resistant and susceptible population of *Tribolium castaneum* (Herbst) and their biochemical and molecular characterization 1331

Cell and Molecular Biology

- ABDULLAH, M., ZAHOOR, S., ALI, A. AND BABAR, M.E. Association of single nucleotide polymorphism in the upstream region of tumor necrosis factor alpha gene with asthma 1011
 HUANG, L., MAI, L., ZHONG, K. AND CHEN, S. Bioinformatics analysis, cloning and expression of *Spirometra erinaceieuropaei* fatty acid-binding protein 1027
 DONG-JIE, Z., XIN-MIAO, H., WEN-TAO, W. AND DI, L. Whole-genome sequencing reveals the genetic relationships and selection signatures of the min pig 1187
 SAMI, A.J., BILAL, S. AND ZAHRA, S.A. Variations in the bubaline growth hormone gene in the coding and non-coding regions 1223
 MUMTAZ, S., JAVED, K., DAWOOD, M., IMRAN, M., ALI, A. AND RAMZAN, N. β casein polymorphism in indigenous and exotic cattle breeds of Pakistan (S.C.) 1451
 HE, J. AND YANG, R. Effects of propofol and vitexin on apoptosis in rat liver ischemia reperfusion injury (S.C.) 1463

Marine Biology

- ASTUTI, O., SARA, L., MUZUNI AND SAFILU Analysis of spatial and temporal composition and sex ratio of decapod crustaceans catch from southeast Sulawesi waters of Indonesia ... 1017

Anatomy

- ZOU, Y., REN, S., XU, M., LIANG, N., ZHANG, X., HAN, C. AND NAN, X. Skull morphology of four species of zokors (Rodentia, Myospalacinae) 1037
 DOĞAN, G.K., KARAKURT, E., KURU, M. AND NUHOĞLU, H. Anatomical and pathological evaluation of congenital anomalies in calves: 6 cases 1345

Livestock Production

- XUE, Y., YAN, J., ZHAO, H., ZHENG, H. AND MA, C. Can domestic animal husbandry develop independently? an empirical study of China's beef cattle industry 1053
 SHAH, S.H.A., SHEIKH, I.S., SAMAD, A., TAJ, M.K., TARIQ, M.M., RAFEEQ, M., FAZAL, S., KAKAR, N., AFZAL, S. AND ASADULLAH. Effectiveness of oxytetracycline and tylosin phosphate on growth of broiler chicken 1313

Biotechnology

- LI, L., ZHANG, J., ZHANG, R., ZHANG, N., WEI, Z., LIU, G., PASHA, R.H., KHAN, M.A. AND REHMAN, S. Study on the extracting technology for antioxidant oligopeptides from donkey meat by two-step enzymatic hydrolysis 1063

Continued on last page of this issue

[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 hostTM*].

Fish Biology & Fisheries

- HUSSAIN, S.M., GOHAR, H., ASRAR, M., SHAHZAD, M.M., RASUL, A., HUSSAIN, M., ARSALAN, M.Z.H., AHMAD, N. AND SHARIF, A. Effects of polyphenols supplemented canola meal based diet on proximate composition, minerals absorption and hematology of *Cyprinus carpio* fingerlings..... 1071
AHMAD, N., HUSSAIN, S.M., RASUL, A., SHAHZAD, M.M., JAVID, A., AZMAT, H., ARSALAN, M.Z.H., TABASSUM, S. AND AHMAD, B. Effect of nano-Se particles supplemented sunflower meal based diets on mineral absorption and carcass composition of *Cirrhinus mrigala* fingerlings 1103
MAI, H.V., NGUYEN, T.D., THI, N.T.T. AND NGUYEN, H.P. Effects of dietary fermented soybean meals on tissue lipid level, bile acid concentration, lipase activity and lipid digestibility in pompano fish (*Trachinotus blochii*) 1177
MOHSIN, M., LUYAO, Z., TING, Z., HENGBIN, Y. AND CHONG, Q. Population dynamics of *Ammodytes personatus* (Girard, 1856) in Shandong, China: does this resource needs management? 1269
KHATUN, D., HOSSAIN, Y., HOSSAIN, F., MAWA, Z., RAHMAN, A., HASAN, R., ISLAM, A., RAHMAN, A., HASSAN, H. AND SIKHA, S.N. Population parameters of a freshwater clupeid, *Corica soborna* (Hamilton, 1822) from the Ganges River, North-Western Bangladesh..... 1279
DZIFA, M.G., AYISI, C.L. AND ALHASSAN, E.H. Substitution of fish meal with shea nut meal in diets of Nile tilapia fry on growth, feed utilization, tissue histology and economic analysis..... 1385
NASEEM, F., ABDULLAH, S. AND AZIZ, S. Effect of phytase supplemented diet on whole body proximate composition of *Labeo rohita* fingerlings (S.C.) 1479
FENG, J., LI, Y., SONG, P., ZHANG, R., LI, H. AND LIN, L. Length-weight relationship of six fish species from the central and southern south China sea (S.C.)..... 1487

Animal Diseases

- AWAN, F., NAWAZ, S., ALI, M.M., IQBAL, A., AKHTAR, R., FIRYAL, S., SADIA, H., JAVID, A., RASHID, M., TASEER, M.S.A. AND ZENG, Z. Canine populations in vicinity are propagating canine transmissible venereal tumour in Pakistan – a pilot study..... 1081

- MAZARI, M.Q., KALHORO, D.H., BALOCH, H., KALHORO, M.S., ABRO, S.H., BURIRO, R., KAKA, A., PARVEEN, F., MANGI, M.H., LOCHI, G.M., SOOMRO, A.A. SOOMRO, A.G., ABBASI, A.G. AND DEPAR, S.H. Prevalence and risk factors of bovine tuberculosis in cattle and dairy farm workers in Mirpurkhas and Badin districts of Sindh, Pakistan 1115
HAFEEZ, M.A., SATTAR, A., ASLAM, F., IMRAN, M., ASHRAF, K., ZIA, R. AND MEHDI, M.M. Effects of ibuprofen and clopidol alone and in combination on experimentally induced coccidiosis in broiler chickens 1369

Animal Products

- KULEKÇİ, M., EYDURAN, E., ALTIN, A.Y. AND TARIQ, M.A. Usefulness of MARS and bagging MARS algorithms in prediction of honey production in beekeeping enterprises from Elazig province of Turkey 1087

Herbal Medicine

- OZIOKO, J.N., AYOGU, O.V., EZEMA, B.O., URAMAH, D.C. AND OMEJE, K.O. Effect of *Chrysophyllum albidum* ethanol leaf extract on haematological and platelet indices of apparently healthy wistar rat 1095
JIANG, N., LIU, T., LIU, J. AND TANG, G. Effect of inhalation of low-dose budesonide powder combined with pulmonary rehabilitation in the treatment of bronchial asthma (S.C.) 1443

Toxicology

- MIAO, F., SHAN, C., YANG, W., WANG, H., GENG, S. AND NING, D. Protective effect of walnut oil on alcoholic liver disease in mice 1123
JABBAR, A., TARIQ, M., GULZAR, A., MUKHTAR, T. AND ZAINAB, T. Lethal and sub lethal effects of plant extracts and green silver nanoparticles against *Culex pipiens* 1259
SHOAIB, N. AND ALI, A.M. Genotoxic effect of pesticides on *Perna viridis* 1323
AMIN, M., YOUSUF, M. AND AHMAD, N. Effects of pesticides on total protein content of different organs of *Oreochromis niloticus* (Linnaeus, 1758) (S.C.) 1435
SIDDIQUE, Q., ABDULLAH, S., NAZ, H., ABBAS, K., SHAFIQUE, L. AND LIU, Q. Sub-lethal effects of chlorpyrifos on glutathione s-transferase activity and total protein contents of fish, *Labeo rohita* (S.C.) 1467

- SADDAR, A.N., SOOMRO, A.N., QURESHI, S.T., HASSANEY, S.S. AND MAHAR, M.A. Cytotoxic potential of fertility booster medicinal plants as evident through brine shrimp toxicity assay (*S.C.*) 1497

Wildlife, Animal Diversity

- WANG, S., ZHAO, Y., XU, Z., CHEN, J., YANG, G., WANG, S. AND JIANG, K. Home range characteristics of the released female milu (Père David's Deer, *Elaphurus davidianus*) population during different periods and effects of water submersion in Dongting Lake, China 1133
- ARA, A., ALI, U., FURQAN, M., ALI, Z., SHAHZAD, M.M., AHMED, K.B., MINHAS, R.A., AHMED, W., HUSSAIN, Z. AND ULLAH, M.A. Diversity, distribution and threats to freshwater turtles in Mirpur, Azad Jammu and Kashmir, Pakistan 1229
- MUKHLISI, M., SAYEKTININGSIH, T. AND YASSIR, I. Bird communities in the Karst Forests of Teluk Sumbang, East Kalimantan, Indonesia 1239
- HAMEED, S., AHMAD, S., DIN, J. AND NAWAZ, M.A. Human perceptions about the Himalayan brown bear and other carnivores in Chitral district in the Hindu Kush Range, Pakistan 1249

Cancer Biology

- ZEHRA, D., MEMON, Z., USMAN, S., JABEEN, A., ISMAIL, K. AND SIDDIQUI, R.A. Low dose of azithromycin enhances the anticancer efficacy of sorafenib in HepG2 cell line 1143
- AMANI, N., SHARIATI, M., AHMADI, R., MOKHTARI, M. AND KHATAMSAZ, S. Testosterone enanthate induces cell death in human colon (HCT) and gastric (AGS) cancer cells 1153
- FU, J. Correlation of expression of SATB2 and CK20 in mucinous ovarian tumors with their pathological classification and prognosis 1171

Entomology

- MEHMOOD, A., NAEEM, M. AND MOHSIN, A. Seasonal occurrence and abundance of mosquitoes in Pothwar plateau 1163

Physiology

- GHONEEM, W.M.A., EL-TANANY, R.R. AND MAHMOUD, A.E.M. Effect of natural zeolite as a rumen buffer on growth performance and nitrogen utilization of Barki lambs 1199

- YIN, H., YANG, D., LIU, J.J., DING, J.W. AND CUI, D.D. Effect of β -casomorphin-7 on dyslipidemia and oxidative stress in aged mice 1339
- AHMAD, H.A., ASLAM, M., GUL, S., MEHMOOD, T. AND MUNAWAR, M.A. *In vivo* anti inflammation studies of novel 1, 2, 5 oxadiazole sulfonamide hybrids 1355
- TARIQ, M., RABBANI, I., YOUSAF, M.S., KHAN, I.U., ZANEB, H., IQBAL, S., KHAN, A.Z., SHAKIRULLAH, KHAN, M.S., REHMAN, A. AND KHAN, M.A. Response of cryopreserved Nili Ravi buffalo bull semen to gallic acid inclusion in semen extender 1363
- ALQHTANI, A.H., ALHARTHI, A.S., SIDDIQI, N.J., ZARGAR, S. AND ABUDABOS, A.M. Effect of dietary natural growth promoters on the liver function enzymes of chicken challenged with *Clostridium perfringens* 1379
- LIU, H. AND XU, R. Assessment of three dimensional color power doppler technique for detecting fetal renal vascular perfusion in pregnant women with gestational hypertension (*S.C.*) 1431
- ATIYAH, A.G., AL-FALAHI, N.H.R. AND ZARRAQ, G.A. Synthesis and characterization of porous β -calcium pyrophosphate bone scaffold derived from avian eggshell (*S.C.*) 1439
- SAFDAR, M., ZEB, A., KHALID, S., BASHIR, S., MEHBOOB, R. AND IMRAN, M. Effect of fortified wheat flour on anemia status of adolescent hostel girls (*S.C.*) 1471
- RAZA, A., SHARIF, M., AHMAD, F., KAMBOH, A.A., SAEED, M., ASHRAF, M. AND HAYDER, A.U. Effect of vitamin D and phytase on growth, blood mineral level and slaughter parameters of broilers (*S.C.*) 1493

Molecular Genetics

- SABA, N. AND IRSHAD, S. Etiology and association of congenital/acquired cataract, with other ocular anomalies in Pakistani population 1209
- GUL, H., SHAH, A.H., HARRIPAUL, R., MIKHAILOV, A., KHAN, E.U., SHAH, W., AHMAD, N., VINCENT, J.B. AND KHAN, M.A. Mutation analysis of a Pakistani oculocutaneous albinism family identifies a novel splice site defect in *OCA2* gene 1215
- ZHANG, L., ZHANG, X. AND YUE, B. The Analysis of genetic diversity of *Periplaneta americana* 1291
- MUSTAFA, S., BUKHARI, F., AFTAB, M.N., ASIF, M., AMJAD, M., IJAZ, M., LATIF, M. AND IQBAL, F. A missense mutation in *COL10A1* gene in a Pakistani consanguineous

family with Schmid type metaphyseal chondrodysplasia (S.C).....	1447
ASLAM, F., LODHI, H., BASHIR, R., SALEEM, F. AND NAZ, S. Prevalence of New Delhi metallo- β -lactamase-1 (<i>blaNDM-1</i>) gene in children from tertiary care hospital of Pakistan (S.C)	1455
SHERZADA, S., KHAN, M.N. AND BABAR, M.E. Genetic structure analysis of freshwater fish <i>Cirrhinus mrigala</i> by mitochondrial <i>COI</i> gene (S.C)	1483

Pest and Pest Control

JAN, M.T., SHAD, S.A., SALEEM, M.A. AND BINYAMEEN, M. Assessment of <i>Earias vittella</i> (Fabricius) egg distribution in cotton crop at Multan, Pakistan: A comprehensive guideline for developing a pest scouting method	1303
YEHIA, R.S., SHAALAN, E.A. AND ALSHEIKH, H.M. Efficacy of two entomopathogenic fungi, <i>Beauveria bassiana</i> and <i>Metarhizium anisopliae</i> , isolated from eastern Saudi Arabia against the house fly, <i>Musca domestica</i>	1405
JUNEJO, R., MEMON, S., SHAR, M.U., MEMON, A.A. AND MEMON, F.N. Effect of various parameters for trapping red palm weevil (<i>Rhynchophorus ferrugineus</i> L) in date palm orchards at Khairpur Mir's Sindh, Pakistan (S.C)	1475

Virology

KHALID, S., REHMAN, M.Z., HAMEED, U., SHAHEEN, S., SHAHID, M.N., JABEEN, K., KHAN, F., HAIDER, M.S. Whiteflies are not responsible for transmission of chickpea chlorotic dwarf virus and mastrebegomo chimeric virus.....	1397
CHEN, X., WANG, H., LI, W., GUO, W. AND QI, Y. Prevalence of bovine herpes virus 1 in yaks (<i>Bos grunniens</i>) from the Qinghai-Tibetan plateau in China: A meta-analysis.....	1413
Eyüboğlu, O. Measures and gap analysis on the impact of non-indigenous species on the black sea ecosystem.....	1419
GUMUSOVA, S.O., YARIM, G.F., TAMER, C., SALT, A. AND INAT, G. Oxidative stress induction by infectious pancreatic necrosis virus in RTG-2 cell line (S.C).....	1459
KONG, F., ZHU, Q., XIAO, F., NGAWA WA, J.M., ZHANG, H. AND SHI, H. Preliminary diet analysis of Chinese soft-shelled turtle (<i>Pelodiscus sinensis</i>) in the middle confines of the yellow river, Shaanxi Province, China (S.C)	1489