

VOLUME 56, CONTENTS

REVIEW ARTICLES

MORAN G, FOLCH H: Recurrent airway obstruction in horses – an allergic inflammation	1
AGUDELO CF, SCHEER P, TOMENENDALOVA J: How to approach the QT interval in dogs – the state of the art	14
MOTA-ROJAS D, OROZCO-GREGORIO H, VILLANUEVA-GARCIA D, BONILLA-JAIME H, SUAREZ-BONILLA X, HERNANDEZ-GONZALEZ R, ROLDAN-SANTIAGO P, TRUJILLO-ORTEGA ME: Foetal and neonatal energy metabolism in pigs and humans	215
TRHLIN M, RAJCHARD J: Chemical communication in the honeybee (<i>Apis mellifera</i> L.)	265
KEMPISTY B, BUKOWSKA D, PIOTROWSKA H, ZAWIERUCHA P, SNIADEK P, WALCZAK R, DZIUBAN J, ANTOSIK P, JASKOWSKI J, BRUSSOW KP, NOWICKI M, ZABEL M: Selected molecular and microfluidic aspects of mammalian oocyte maturation-perspectives	367
GOLYSKI M, KRUMRYCH W, LUTNICKI K: The role of beta-endorphin in horses	423
SPERLOVA A, ZENDULKOVA D: Bluetongue	430
POHANKA M, CHLIBEK R, KUČA K, BANDOUCHOVA H, PIKULA J: Diagnosis of tularemia using biochemical, immunochemical and molecular methods	453
BELMAR-LIBERATO R, GONZALEZ-CANGA A, TAMAME-MARTIN P, ESCRIBANO-SALAZAR M: Amoxicillin and amoxicillin-clavulanic acid resistance in veterinary medicine – the situation in Europe	473
URIBE C, FOLCH H, ENRIQUEZ R, MORAN G: Innate and adaptive immunity in teleost fish	486
RYMASZEWSKA A: PCR for detection of tick-borne <i>Anaplasma phagocytophilum</i> pathogens	529
SEVCIKOVA M, MODRA H, SLANINOVA A, SVOBODOVA Z: Metals as a cause of oxidative stress in fish	537
OLECHNOWICZ J, JASKOWSKI J.M: Behaviour of lame cows	581
KREDATUSOVA G, HAJURKA J, SZAKALLOVA I, VALENCAKOVA A, VOJTEK B: Physiological events during parturition and possibilities for improving puppy survival	589
CETINKAYA MA, YARDIMCI B, YARDIMCI C: Hypertrophic osteopathy in a dog associated with intra-thoracic lesions	595

ORIGINAL PAPERS

HABRUN B, RACIC I, KOMPES G, SPICIC S, BENIC M, MIHALJEVIC Z, CVETNIC Z: The antimicrobial susceptibility and virulence factors of <i>Bacillus anthracis</i> strains isolated in Croatia	22
GABINAITIENE A, SIUGZDAITE J, ZILINSKAS H, SIUGZDA R, PETKEVICIUS S: <i>Mycoplasma bovis</i> and bacterial pathogens in the bovine respiratory tract	28
KUZINSKI J, ZITNAN R, VIERGUTZ T, LEGATH J, SCHWEIGEL M: Altered Na ⁺ /K ⁺ -ATPase expression plays a role in rumen epithelium adaptation in sheep fed hay <i>ad libitum</i> or a mixed hay/concentrate diet .	35
SANTOS CM, ABIDU-FIGUEIREDO M, TEIXEIRA MJ, NASCIMENTO AA, SALES A: Light microscopic and immunohistochemical study of the trachea of the broad-snouted caiman (<i>Caiman latirostris</i>)	48
VECERA R, ZACHAROVA A, OROLIN J, SKOTTOVA N, ANZENBACHER P: The effect of silymarin on expression of selected ABC transporters in the rat	59

PAVLATA L, CHOMAT M, PECHOVA A, MISUROVA L, DVORAK R: Impact of long-term supplementation of zinc and selenium on their content in blood and hair in goats	63
PAVLATA L, MISUROVA L, PECHOVA A, DVORAK R: The effect of inorganic and organically bound forms of selenium on glutathione peroxidase activity in the blood of goats	75
PLUYM L, VAN NUFFEL A, DEWULF J, COOLS A, VANGROENWEGHE F, VAN HOOREBEKE S, MAES D: Prevalence and risk factors of claw lesions and lameness in pregnant sows in two types of group housing	101
HEO SH, NA CS, KIM NS: Evaluation of equine cortical bone transplantation in a canine fracture model	110
SIROKA Z, KROCILOVA B, PIKULA J, BANDOUCHOVA H, PECKOVA L, VITULA F: Blood coagulation parameters in fallow deer (<i>Dama dama</i>)	119
ALAM MR, LEE HB, KIM MS, KIM NS: Surgical model of osteoarthritis secondary to medial patellar luxation in dogs	123
AYDIN A: The arteries originating from the aortic arch and the branches of these arteries in red squirrels (<i>Sciurus vulgaris</i>)	131
ALEXA P, KONSTANTINOVA L, SRAMKOVA-ZAJACOVA Z: Faecal shedding of verotoxigenic <i>Escherichia coli</i> in cattle in the Czech Republic	149
WARZYCH E, CIESLAK A, PAWLAK P, RENSKA N, PERS-KAMCZYC E, LECHNIAK D: Maternal nutrition affects the composition of follicular fluid and transcript content in gilt oocytes	156
COUTO MCM, QUINELATO S, CORDEIRO FC, SAMPAIO IBM, RODRIGUES MLA: Migratory dynamics of cyathostomin larvae in a Bermuda grass pasture in South America	168
GIORGI M, MENGOZZI G: Malicious animal intoxications: poisoned baits	173
ONDRUSKA L, RAFAY J, OKAB AB, AYOUB MA, AL-HAIDARY AA, SAMARA EM, PARKANYI V, CHRASTINOVA L, JURCIK R, MASSANYI P, LUKAC N, SUPUKA P: Influence of elevated ambient temperature upon some physiological measurements of New Zealand White rabbits	180
SELISKAR A, NEMEC SVETE A, KOZELJ M: Haemodynamic and renal effects of resuscitation of dogs from haemorrhagic shock with hypertonic saline or Lactated Ringer's solution combined with whole blood	187
ERDOGAN S: Distribution of the arterial supply to the lower urinary tract in the domestic tom-cat (<i>Felis catus</i>)	202
SLAVICA A, DEZDEK D, KONJEVIC D, CVETNIC Z, SINDICIC M, STANIN D, HABUS J, TURK N: Prevalence of leptospiral antibodies in the red fox (<i>Vulpes vulpes</i>) population of Croatia	209
HRUSKA K, SLANA I, KRALIK P, PAVLIK I: <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in powdered infant milk: F57 competitive real time PCR	226
MUNOZ A, TRIGO P, RIBER C, MALONDA V, CASTEJON F: A study of serum insulin-like growth factor type 1 (IGF-1) concentrations in resting untrained Andalusian horses: influence of age and gender	231
DOSTAL J, HRDLICOVA A, HORAK P: Progressive rod-cone degeneration (PRCD) in selected dog breeds and variability in its phenotypic expression	243
BUKOWSKA D, KEMPISTY B, SIKORA J, JACKOWSKA M, WOZNA M, ANTOSIK P, PIOTROWSKA H, BUDNA J, JASKOWSKI JM: The effect of swim-up purification and incubation of cells on sperm viability in dogs of different ages	248
HSIEH MK, SHYU CL, LIAO JW, FRANJE CA, HUANG Y J, CHANG SK, SHIH PY, CHOU CC: Correlation analysis of heat stability of veterinary antibiotics by structural degradation, changes in antimicrobial activity and genotoxicity	274

GUR FM, TIMURKAAN S, TIMURKAAN N: The effects of prepubertal epididymal ligation upon androgen receptor distribution in the rat caput epididymis	286
BILKOVA A, KINOVA SEPOVA H, BUKOVSKY M, BEZAKOVA L: Antibacterial potential of lactobacilli isolated from a lamb	319
KOLESAROVA M, SPISAKOVA V, MATULOVA M, CRHANOVA M, SISAK F, RYCHLIK I: Characterisation of basal expression of selected cytokines in the liver, spleen, and respiratory, reproductive and intestinal tract of hens	325
MORAVKOVA M, LAMKA J, KRIZ P, PAVLIK I: The presence of <i>Mycobacterium avium</i> subsp. <i>avium</i> in common pheasants (<i>Phasianus colchicus</i>) living in captivity and in other birds, vertebrates, non-vertebrates and the environment	333
TLAK GAJGER I, KOZARIC Z, BERTA D, NEJEDLI S, PETRINEC Z: Effect of the herbal preparation Nozevit on the mid-gut structure of honeybees (<i>Apis mellifera</i>) infected with <i>Nosema</i> sp. spores	344
TRIVEDI K, CUPAKOVA S, KARPISKOVA R: Virulence factors and antibiotic resistance in enterococci isolated from food-stuffs	352
TOFANT A, OSTOVIC M, WOLF S, EKERT KABALIN A, PAVICIC Z, MIKULIC M: Association between over-chlorinated drinking water and suckling, nursery and fattening pig death losses	358
RAHMAN MS, FARUK MO, HER M, KIM JY, KANG SI, JUNG SC: Prevalence of brucellosis in ruminants in Bangladesh	379
ATIL E, ERTAS HB, OZBEY G: Isolation and molecular characterization of <i>Listeria</i> spp. from animals, food and environmental samples	386
RAHIMI M: Seroprevalence of avian metapneumovirus infection in broiler and broiler breeder chickens in Iran	395
ARI HH, SOYGUDER Z, CINAROGLU S, SEFERGIL S: A macroanatomic study on the facial vein and its branches in the Van cat	400
AYDIN A: The spinal nerves that constitute the brachial plexus in the red squirrel (<i>Sciurus vulgaris</i>)	405
BRUDNICKI W: Morphometric analysis of the brain base arteries in fallow deer (<i>Dama dama</i>)	462
AYDIN A, OZKAN ZE, YILMAZ S, ILGUN R: The arteries originating from the aortic arch and the patterns of their branches in ground squirrels (<i>Spermophilus citellus</i>)	469
MOHAMED T, ENDOH D, OIKAWA S: DNA damage of blood lymphocytes and neutrophils in cattle with lymphosarcoma	504
DEC M, WERNICKI A, PUCHALSKI A, URBAN-CHMIEL R: Conglutinin is not specific to cattle	510
DJURDJEVIC-MILOSEVIC DM, SOLAJA MM, TOPALIC-TRIVUNOVIC LJN, STIJEPIC MJ, GLUSAC JR: The survival of <i>Escherichia coli</i> upon exposure to irradiation with non-coherent polychromatic polarized light	520
MALENOVSKA H, REICHELOVA M: Elimination of mycoplasma contamination of virus stocks	547
CZUJKOWSKA A, ARCISZEWSKI MB: Expression of corticotropin releasing factor (CRF) in the enteric nervous system of the jejunum of sheep	551
REZAEI F, TAVASSOLI M, MAHMOUDIAN A: Prevalence of <i>Linguatula serrata</i> infection among dogs (definitive host) and domestic ruminants (intermediate host) in the North West of Iran	561
MAO XH, CHEN XZ, ZHANG WW, WANG JY, LIU LF, ZHOU Q, ZHU KJ, CHENG H: TLR agonists activate HPV11 E7-pulsed DCs to promote a specific T cell response in a murine model	602
CIZEK P, KREJCIROVA L, KOCIANOVA I, TICHY F: Light and scanning electron microscopy of the developing lingual papillae in the green iguana, <i>Iguana iguana</i>	612

CASE REPORTS

DOMOSLAWSKA A, JURCZAK A, JANOWSKI T: A one-foetus pregnancy monitored by ultrasonography and progesterone blood levels in a German Shepherd bitch	55
SOOD NK, SINGLA LD, SINGH RS, UPPAL SK: Association of <i>Trypanosoma theileri</i> with peritonitis in a pregnant cross-bred cow	82
AGUDELO CF, SCHANILEC P, KYBICOVA K, KOHOUT P: Cardiac manifestations of borreliosis in a dog	85
ZAFRA R, BAUTISTA MJ, PEREZ J, GINEL PJ, LUCENA R: Hepatopancreatic ganglioneuroma in a young dog	93
HAYATI F, LAKZIAN A, SHARIATI E, BAKHTIARI J, SAYYAH N, MASOODIFARD M, VAKILI T: Surgical removal of a ventricular foreign body from a common myna (<i>Acridotheres tristis</i>)	97
PAWAIYA RVS, SHARMA AK, SWARUP D, SOMVANSHI R: Pathology of mycotic gastritis in a wild Indian freshwater/marsh crocodile (Mugger; <i>Crocodylus palustris</i>)	135
NOVOTNY R, VITASEK R, BARTOSKOVA A: Ovarian dysgerminoma with retroperitoneal metastases in a bitch	140
AGUDELO CF, FICTUM P, SKORIC M, KAZBUNDOVA K, SVOBODA M, SCHEER P: Unusual massive fatty infiltration of the heart in a British cat	145
MOHAMED T, AL-SOBAYIL F, KURWASAWA T, NAKADE T, FLOECK M: Computed tomographic findings in a calf with actinomycosis	255
SKORIC M, FICTUM P, SLANA I, KRIZ P, PAVLIK I: A case of systemic mycosis in a Hovawart dog due to <i>Candida albicans</i>	260
BLAHUTKOVA M, FICTUM P, SKORIC M, BEZDEKOVA B, JAHN P, KRIZ P, MRLIK V, SLANA I, KAEVSKA M, PAVLIK I: <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> infection in two sibling Fjord horses diagnosed using quantitative real time PCR	294
LEE K, FURUOKA H, SASAKI N, ISHII M, INOKUMA H, YAMADA K: Congenital porencephaly with cerebellar hypoplasia in a Holstein calf	302
KRIZ P, KRALIK P, SLANY M, SLANA I, SVOBODOVA J, PARMOVA I, BARNET V, JUREK V, PAVLIK I: <i>Mycobacterium pinnipedii</i> in a captive Southern sea lion (<i>Otaria flavescens</i>)	307
MORAVKOVA M, SLANY M, TRCKA I, HAVELKOVA M, SVOBODOVA J, SKORIC M, HEINIGEOVA B, PAVLIK I: Human-to-human and human-to-dog <i>Mycobacterium tuberculosis</i> transmission studied by IS6110 RFLP analysis	314
PIETRA M, ROMAGNOLI N, VALENTINI S, SPINELLA G, SPADARI A: Endoscopic assisted electro-cauterization to treat an acquired pharyngeal ostium stenosis in a horse	362
DUFKOVA L, KULICH P, PRODELALOVA J: Molecular characterization of a porcine sapovirus strain isolated from a piglet with diarrhoea	409
TAMBURRO R, PIETRA M, MILITERNO G, DIANA A, SPADARI A, VALENTINI S: Left cranial lung torsion in a Bernese Mountain dog	416
KANG MH, PARK HM: Erythema multiforme minor in a dog following inappropriate intranasal <i>Bordetella bronchiseptica</i> vaccination	568
YILMAZ O, CELIK HA, YAZICI E, UCAR M: Twin mummified fetuses in a Holstein Friesian cow	573
ADAMIAK Z, POMIANOWSKI A, KWIATKOWSKA M, MAJCHROWSKI A, MATYJASIK H, HOLAK P: Laparoscopy-assisted ventriculo-peritoneal shunt implantation in a dog	577
KWIATKOWSKA M, POMIANOWSKI A, ADAMIAK Z, OTROCKA-DOMAGALA I, WIDAWSKI T, PAZDZIOR K: Atypical sphenoid bone osteomyelitis in a maltanese dog caused by cryptococcosis	619

AUTHOR INDEX

- ABIDU-FIGUEIREDO M ... 48
ADAMIAK Z ... 577, 619
AGUDELO CF ... 14, 85, 145
ALAM MR ... 123
ALEXA P ... 149
AL-HAIDARY AA ... 180
AL-SOBAYIL F ... 255
ANTOSIK P ... 248, 367
ANZENBACHER P ... 59
ARCISZEWSKI MB ... 551
ARI HH ... 400
ATIL E ... 386
AYDIN A ... 131, 405, 469
AYOUB MA ... 180

BAKHTIARI J ... 97
BANDOUCHOVA H ... 119, 453
BARNET V ... 307
BARTOSKOVA A ... 140
BAUTISTA MJ ... 93
BELMAR-LIBERATO R ... 473
BENIC M ... 22
BERTA D ... 344
BEZAKOVA L ... 319
BEZDEKOVA B ... 294
BILKOVA A ... 319
BLAHUTKOVA M ... 294
BONILLA-JAIME H ... 215
BRUDNICKI W ... 462
BRUSSOW KP ... 367
BUDNA J ... 248
BUKOVSKY M ... 319
BUKOWSKA D ... 248, 368

CASTEJON F ... 231
CELIK HA ... 573
CETINKAYA MA ... 595
CHANG SK ... 274
CHEN XZ ... 602
CHENG H ... 602
CHLIBEK R ... 453
CHOMAT M ... 63
CHOU CC ... 274
CHRASTINOVA L ... 180
CIESLAK A ... 156
CINAROGLU S ... 400
CIZEK P ... 612
COOLS A ... 101

CORDEIRO FC ... 168
COUTO MCM ... 168
CRHANOVA M ... 325
CUPAKOVA S ... 352
CVETNIC Z ... 22, 209
CZUJKOWSKA A ... 551

DEC M ... 510
DEWULF J ... 101
DEZDEK D ... 209
DIANA A ... 416
DJURDJEVIC-MILOSEVIC DM ... 520
DOMOSLAWSKA A ... 55
DOSTAL J ... 243
DUFKOVA L ... 409
DVORAK R ... 63, 75
DZIUBAN J ... 367

EKERT KABALIN A ... 358
ENDOH D ... 504
ENRIQUEZ R ... 486
ERDOGAN S ... 202
ERTAS HB ... 386
ESCRIBANO-SALAZAR M ... 473

FARUK MO ... 379
FICTUM P ... 145, 260, 294
FLOECK M ... 255
FOLCH H ... 1, 486
FRANJE CA ... 274
FURUOKA H ... 302

GABINAITIENE A ... 28
GINEL PJ ... 93
GIORGI M ... 173
GLUSAC JR ... 520
GOLYSKI M ... 423
GONZALEZ-CANGA A ... 473
GUR FM ... 286

HABRUN B ... 22
HABUS J ... 209
HAJURKA J ... 589
HAVELKOVA M ... 314
HAYATI F ... 97
HEINIGEOVA B ... 314
HEO SH ... 110
HER M ... 379

HERNANDEZ-GONZALEZ R ... 215

HOLAK P ... 577

HORAK P ... 243

HRDLICOVA A ... 243

HRUSKA K ... 226

HSIEH MK ... 274

HUANG YJ ... 274

ILGUN R ... 469

INOKUMA H ... 302

ISHII M ... 302

JACKOWSKA M ... 248

JAHN P ... 294

JANOWSKI T ... 55

JASKOWSKI JM ... 248, 367, 581

JUNG SC ... 379

JURCIK R ... 180

JURCZAK A ... 55

JUREK V ... 307

KAEVSKA M ... 294

KANG MH ... 568

KANG SI ... 379

KARPISKOVA R ... 352

KAZBUNDOVA K ... 145

KEMPISTY B ... 248, 367

KIM JY ... 379

KIM NS ... 110, 123

KINOVA SEPOVA H ... 319

KOCIANOVA I ... 612

KOHOUT P ... 85

KOLESAROVA M ... 325

KOMPES G ... 22

KONJEVIC D ... 209

KONSTANTINOVA L ... 149

KOZARIC Z ... 344

KOZELJ M ... 187

KRALIK P ... 226, 307

KREDATUSOVA G ... 589

KREJCIROVA L ... 612

KRIZ P ... 260, 294, 307, 333

KROCILOVA B ... 119

KRUMRYCH W ... 423

KUCA K ... 453

KULICH P ... 409

KURWASAWA T ... 255

KUZINSKI J ... 35

KWIATKOWSKA M ... 577, 619

KYBICOVA K ... 85

LAKZIAN A ... 97

LAMKA J ... 333

LEE HB ... 123

LEE K ... 302

LEGATH J ... 35

LECHNIAK D ... 156

LIAO JW ... 274

LIU LF ... 602

LUCENA R ... 93

LUKAC N ... 180

LUTNICKI K ... 423

MAES D ... 101

MAHMOUDIAN A ... 561

MAJCHROWSKI A ... 577

MALENOVSKA H ... 547

MALONDA V ... 231

MAO XH ... 602

MASOODIFARD M ... 97

MASSANYI P ... 180

MATULOVA M ... 325

MATYJASIK H ... 577

MENGOZZI G ... 173

MIHALJEVIC Z ... 22

MIKULIC M ... 358

MILITERNO G ... 416

MISUROVA L ... 63, 75

MODRA H ... 537

MOHAMED T ... 255, 504

MORAN G ... 1, 486

MORAVKOVA M ... 314, 333

MOTA-ROJAS D ... 215

MRLIK V ... 294

MUNOZ A ... 231

NA CS ... 110

NAKADE T ... 255

NASCIMENTO AA ... 48

NEJEDLI S ... 344

NEMEC SVETE A ... 187

NOVOTNY R ... 140

NOWICKI M ... 367

OTAKAWA S ... 504

OKAB AB ... 180

OLECHNOWICZ J ... 581

ONDRUSKA L ... 180

OROLIN J ... 59

OROZCO-GREGORIO H ... 215

OSTOVIC M ... 358

OTROCKA-DOMAGALA I ... 619

OZBEY G ... 386

OZKAN ZE ... 469

- PARK HM ... 568
PARKANYI V ... 180
PARMOVA I ... 307
PAVICIC Z ... 358
PAVLATA L ... 63, 75
PAVLIK I ... 226, 260, 294, 307, 314, 333
PAWAIYA RVS ... 135
PAWLAK P ... 156
PAZDZIOR K ... 619
PECKOVA L ... 119
PECHOVA A ... 63, 75
PEREZ J ... 93
PERS-KAMCZYC E ... 156
PETKEVICIUS S ... 28
PETRINEC Z ... 344
PIETRA M ... 362, 416
PIKULA J ... 119, 453
PIOTROWSKA H ... 248, 367
PLUYM L ... 101
POHANKA M ... 453
POMIANOWSKI A ... 577, 619
PRODELALOVA J ... 409
PUCHALSKI A ... 510

QUINELATO S ... 168

RACIC I ... 22
RAFAY J ... 180
RAHIMI M ... 395
RAHMAN MS ... 379
RAJCHARD J ... 265
REICHELOVA M ... 547
RENSKA N ... 156
REZAEI F ... 561
RIBER C ... 231
RODRIGUES MLA ... 168
ROLDAN-SANTIAGO P ... 215
ROMAGNOLI N ... 362
RYCHLIK I ... 325
RYMASZEWSKA A ... 529

SALES A ... 48
SAMARA EM ... 180
SAMPAIO IBM ... 168
SANTOS CM ... 48
SASAKI N ... 302
SAYYAH N ... 97
SCHANILEC P ... 85
SCHEER P ... 14, 145
SCHWEIGEL M ... 35
SEFERGIL S ... 400

SELISKAR A ... 187
SEVCIKOVA M ... 537
SHARIATI E ... 97
SHARMA AK ... 135
SHIH PY ... 274
SHYU CL ... 274
SIKORA J ... 248
SINDICIC M ... 209
SINGH RS ... 82
SINGLA LD ... 82
SIROKA Z ... 119
SISAK F ... 325
SIUGZDA R ... 28
SIUGZDAITE J ... 28
SKORIC M ... 145, 260, 294, 314
SKOTTOVA N ... 59
SLANA I ... 226, 260, 294, 307
SLANINOVA A ... 537
SLANY M ... 307, 314
SLAVICA A ... 209
SNIADEK P ... 367
SOLAJA MM ... 520
SOMVANSI R ... 135
SOOD NK ... 82
SOYGUDER Z ... 400
SPADARI A ... 362, 416
SPERLOVA A ... 430
SPICIC S ... 22
SPINELLA G ... 362
SPISAKOVA V ... 325
SRAMKOVA-ZAJACOVA Z ... 149
STANIN D ... 209
STIJEPIC MJ ... 520
SUAREZ-BONILLA X ... 215
SUPUKA P ... 180
SVOBODA M ... 145
SVOBODOVA J ... 307, 314
SVOBODOVA Z ... 537
SWARUP D ... 135
SZAKALLOVA I ... 589

TAMAME-MARTIN P ... 473
TAMBURRO R ... 416
TAVASSOLI M ... 561
TEIXEIRA MJ ... 48
TICHY F ... 612
TIMURKAAN N ... 286
TIMURKAAN S ... 286
TLAK GAJGER I ... 344
TOFANT A ... 358
TOMENENDALOVA J ... 14
TOPALIC-TRIVUNOVIC LJN ... 520

TRCKA I ... 314	WERNICKI A ... 510
TRHLIN M ... 265	WIDAWSKI T ... 619
TRIGO P ... 231	WOLF S ... 358
TRIVEDI K ... 352	WOZNA M ... 248
TRUJILLO-ORTEGA ME ... 215	
TURK N ... 209	YAMADA K ... 302
	YARDIMCI B ... 595
UCAR M ... 573	YARDIMCI C ... 595
UPPAL SK ... 82	YAZICI E ... 573
URBAN-CHMIEL R ... 510	YILMAZ O ... 573
URIBE C ... 486	YILMAZ S ... 469
VAKILI T ... 97	ZABEL M ... 367
VALENCÁKOVÁ A ... 589	ZAFRA R ... 93
VALENTINI S ... 362, 416	ZACHAROVÁ A ... 59
VAN HOOREBEKE S ... 101	ZAWIERUCHA P ... 367
VAN NUFFEL A ... 101	ZENDULKOVÁ D ... 430
VANGROENWEGHE F ... 101	ZHANG WW ... 602
VECERA R ... 59	ZHOU Q ... 602
VIERGUTZ T ... 35	ZHU KJ ... 602
VILLANUEVA-GARCÍA D ... 215	ZILINSKAS H ... 28
VITASEK R ... 140	ZITNAN R ... 35
VITULA F ... 119	
VOJTEK B ... 589	
WALCZAK R ... 367	
WANG JY ... 602	
WARZYCH E ... 156	

AUTHOR INSTITUTION INDEX

Austria

University of Veterinary Medicine, Vienna 255

Bangladesh

Bangladesh Agricultural University, Mymensingh 123, 379

Belgium

Dierengezondheidszorg Vlaanderen vzw, Torhout 101

Ghent University, Merelbeke 101

Institute of Agricultural and Fisheries Research, Merelbeke 101

Bosnia and Herzegovina

Higher Medical School, Prijedor,..... 520

University of Banja Luka, Banja Luka 520

Brazil

Federal University of Minas Gerais, Minas Gerais 168

Rural Federal University of Rio de Janeiro, Rio de Janeiro 48, 168

Chile

Austral University of Chile, Valdivia 1, 486

China

Zhejiang University, Hangzhou 602

Croatia

Croatian Veterinary Institute, Zagreb 22, 209, 358

Rovisce Pig-Breeding Farm, Ltd., Rovisce 358

University of Zagreb, Zagreb 209, 344, 358

Czech Republic

Charles University, Hradec Kralove 333

Czech University of Life Sciences, Prague 243

Hospital, Jindrichuv Hradec 314

Institution of Animal Physiology and Genetics, Academy of Sciences of the Czech Republic, Libechov ... 243

Masaryk University, Brno 612

National Institute of Public Health, Prague 85, 314, 352

Palacky University, Olomouc 59

Regional Institute of Public Health, Brno 307, 314

State Veterinary Diagnostic Institute, Prague 307

University of Defence, Hradec Kralove 453

University of South Bohemia, Ceske Budejovice 265

University of Veterinary and Pharmaceutical Sciences, Brno 14, 35, 63, 537, 612

Veterinary Clinic Mikulov, Mikulov 119

Veterinary Research Institute, Brno 149, 226, 260, 294, 307, 314, 325, 333, 409, 547

Egypt

Suez Canal University, Ismailia	180
Zagazig University, Zagazig	504

Germany

Leibniz Institute for Farm Animal Biology, Dummerstorf	35, 367
--	---------

India

Central Institute for Research on Goats, Makhdoom, Farah, Mathura, Uttar Pradesh	135
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	82
Indian Veterinary Research Institute, Izatnagar, Bareilly, Uttar Pradesh	135

Iran

Private Practitioner, Mashhad	97
Razi University, Kermanshah	395
Tehran University, Tehran	97
Urmia University, Urmia	561

Italy

University of Bologna, Bologna	362, 416
University of Catanzaro, Catanzaro	362
University of Pisa, Pisa	173

Japan

Obihiro University of Agriculture and Veterinary Medicine, Obihiro	302
Rakuno Gakuen University, Bunkyo-dai-Midori, Ebetsu, Hokkaido	255, 504

Kyrgyzstan

University of Manas, Bishkek	400
------------------------------------	-----

Lithuania

Lithuanian Health Science University, Kaunas	28
--	----

Mexico

Hospital Infantil de Mexico "Federico Gomez", Mexico	215
Instituto Nacional de Ciencias Medicas y Nutricion Salvador Zubiran, Mexico	215
Universidad del Valle de Mexico-Lomas Verdes, Edo Mex, Mexico	215
Universidad Autonoma Metropolitana, Iztapalapa, Mexico	215
Universidad Nacional Autonoma de Mexico (UNAM), Ciudad Universitaria, Mexico	215

Poland

GE Healthcare, Euromedic Diagnostics, Olsztyn	619
National Veterinary Research Institute, Pulawy	423
Poznan University of Life Sciences, Poznan	156, 248, 367, 581
Poznan University of Medical Sciences, Poznan	248, 367
University of Life Sciences, Lublin	423, 510, 551
University of Szczecin, Szczecin	529
University of Technology and Life Sciences, Bydgoszcz	462
University of Warmia and Mazury, Olsztyn	55, 577, 619
Wroclaw University of Technology, Wroclaw	367

Republic of Korea

Chonbuk National University, Jeonju	110, 123
Konkuk University of Veterinary Medicine, Seoul	568
Ministry of Food, Agriculture, Forestry and Fisheries, Anyang, Gyeonggi-do	379
National University, Jeonju	110

Saudi Arabia

King Saud University, Riyadh	180
Qassim University, Al-Qassim	255

Serbia

Higher Technological School of Professional Studies, Sabac.....	520
---	-----

Slovak Republic

Animal Production Research Centre Nitra, Luzianky	35, 180
Comenius University, Bratislava	319
Slovak Agricultural University, Nitra	180
University of Veterinary Medicine and Pharmacy, Kosice	180, 589

Slovenia

University Medical Centre Ljubljana, Ljubljana	187
University of Ljubljana, Ljubljana	187

Spain

Complutense University, Madrid	473
Equine Clinician, Valencia	231
GYPISA-Talavera Slaughterhouse, Talavera de la Reina, Toledo	473
University of Cordoba, Cordoba	93, 231
Veterinary Unit, Spanish Agency of Medicine and Medical Devices, Madrid	473

Taiwan

National Chung Hsing University, Taichung	274
National Taiwan University, Taipei	274

Turkey

Afyon Kocatepe University, Afyonkarahisar	573
Dicle University, Diyarbakir	202
Firat University, Elazig	131, 386, 405, 469
Hacettepe University, Ankara	595
Ministry of Agriculture and Rural Affairs, Istanbul	286
Ondokuz Mayis University, Samsun	595
Pendik Veterinary Control and Research Institute, Istanbul	386
Republic University, Sivas	469
University of Firat, Elazig	286
University of Yuzuncu Yil, Van	400

LIST OF REVIEWERS

Acknowledgement of the reviewers

There is no possibility of publishing a scientific journal without the invaluable help of reviewers. They assess the novelty of results and interpret them in the correct light, they teach hundreds of people for whom they usually remain unknown for ever. The great help of Neysan Donnelly of the National University of Ireland, Galway, in language revision of nearly all published papers is also acknowledged. The following 105 experts from 25 countries (Argentina, Australia, Belgium, Canada, Czech Republic, Denmark, Egypt, Germany, Hungary, Iran, Ireland, Israel, Italy, Japan, Poland, Slovak Republic, Slovenia, South Africa, Spain, Sweden, Switzerland, The Netherlands, Turkey, UK, USA) accepted our invitation to review manuscripts in 2011 and have contributed enormously to maintaining the standard of the journal. Both authors and editors are very grateful to the following colleagues:

Agarwal R, Denver, USA	Garcia Fernandez MP, Madrid, Spain
Alroy J, Boston, USA	Gerhold RW, Athens, USA
Anger M, Brno, Czech Republic	Geschwind JF, Baltimore, USA
Aranaz A, Madrid, Spain	Gloughlin T, Limerick, Ireland
Avakian A, Shrewsbury, USA	Gonzalez L, Penicuik, UK
Banai M, Beit Dagan, Israel	Grant IR, Belfast, UK
Belak S, Uppsala, Sweden	Graziotti GH, Buenos Aires, Argentina
Beutin L, Berlin, Germany	Hewicker-Trautwein M, Hannover, Germany
Bigham AS, Shahrekord, Iran	Hill M, Prague, Czech Republic
Blackall PJ, Yeerongpilly, Australia	Hruska K, Brno, Czech Republic
Bomba A, Kosice, Slovak Republic	Chang KO, Manhattan, USA
Borger MA, Leipzig, Germany	Janowski T, Olzstyn, Poland
Cappello R, Bletchingley, UK	Jaroszewski JJ, Olsztyn, Poland
Cole LK, Columbvus, USA	Jelinek F, Prague, Czech Republic
Cook JKA, Houghton, UK	Jensen TB, Copenhagen, Denmark
Cousins DV, Melbourne, Australia	Koefer J, Vienna, Austria
De Temmerman L, Tervuren, Belgium	Kolar M, Olomouc, Czech Republic
Dehghani SN, Shiraz, Iran	Kondracki S, Siedlce, Poland
Demnerova K, Prague, Czech Republic	Korneyi Z, Budapest, Hungary
Deprez P, Merelbeke, Belgium	Krajcer Z, Houston, USA
Di Berardino D, Naples, Italy	Kriz P, Brno, Czech Republic
Doherr MG, Bern, Switzerland	Kurtul I, Kars, Turkey
Ekblad E, Lund, Sweden	La Ragione RM, Guildford, UK
Elia AC, Perugia, Italy	Larson AC, Chicago, USA
Fairman RM, Philadelphia, USA	Lefebvre RC, Montreal, Canada
Faldyna M, Brno, Czech Republic	Lundeheim N, Uppsala, Sweden
Falkinham JO, Blacksburg, USA	MacKillop E, Pittsburgh, USA
Fodor L, Budapest, Hungary	Maden M, Gainesville, USA
Fossum TW, College Station, USA	Maes D, Ghent, Belgium
Franek M, Brno, Czech Republic	Marai IFM, Zagazig, Egypt
Fremes S, Toronto, Canada	Marounek M, Prague, Czech Republic
Fulka J, Prague, Czech Republic	McDermott P, Laurel, USA

Melzer F, Jena, Germany
Michel AL, Onderspoort, South Africa
Motlik J, Libechov, Czech Republic
Mullens BA, Riverside, USA
Murphy BG, Pullman, USA
Nagy B, Budapest, Hungary
Neubauer H, Jena, Germany
Nielsen K, Ottawa, Canada
Nipeonice A, Pittsburgh, USA
Ocepek M, Ljubljana, Slovenia
Osek J, Pulawy, Poland
Pavlik I, Brno, Czech Republic
Pokorny B, Velenie, Slovenia
Poppensiek GC, Ithaca, USA
Pothoulakis C, Los Angeles, USA
Qureshi MA, Washington, USA
Rubes J, Brno, Czech Republic
Russell AP, Calgary, Canada
Rychlik I, Brno, Czech Republic
Saif LJ, Wooster, USA
Sargent S, Pittsburgh, USA

Schwarz S, Neustadt-Mariensee, Germany
Skrivanova V, Prague, Czech Republic
Sladek Z, Brno, Czech Republic
Slama P, Brno, Czech Republic
Songer JG, Ames, USA
Soyguder Z, Van, Turkey
Spatz SJ, Athens, USA
Spinella, Catanzaro, Italy
Stott AW, Aberdeen, UK
Tischer K, Berlin, Germany
Toman M, Brno, Czech Republic
Traversa D, Teramo, Italy
Tumova E, Prague, Czech Republic
van Soelingen D, Bilthoven, The Netherlands
Vilcek S, Kosice, Slovak Republic
Wagner B, Ithaca, USA
Wahl RL, Baltimore, USA
Wlasow T, Olsztyn, Poland
Yamada K, Obihiro, Japan
Zinsstag J, Basel, Switzerland