



Zia ud Din Sindhu

Date of birth: 29/10/1979 | **Nationality:** Pakistani | **Gender:** Male |

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Address: Department of Parasitology, University of Agriculture, 38000, Faisalabad, Pakistan (Work)

Address: House No. p-27, Street No 1, , Abdullah City, Samundri Road, 38000, Faisalabad, Pakistan (Home)

WORK EXPERIENCE

31/08/2019 – CURRENT Faisalabad, Pakistan

ASSOCIATE PROFESSOR (TENURED) UNIVERSITY OF AGRICULTURE

1. Teaching:

- Designing and delivering lectures, seminars, and practical sessions for undergraduate and postgraduate students.
- Developing course materials, including syllabi, lecture notes, and assessment criteria, to ensure alignment with learning objectives and academic standards.
- Mentoring and supervising students in research projects, theses, and dissertations, fostering critical thinking and academic excellence.

2. Research:

- Leading research projects in parasitology, focusing on parasite diagnosis, drug screening, and drug resistance mechanisms.
- Conducting literature reviews, experimental design, data collection, analysis, and interpretation to contribute to scientific knowledge and publications.
- Collaborating with colleagues, industry partners, and international researchers to explore interdisciplinary approaches and address emerging challenges in the field.

3. Academic Administration:

- Participating in departmental meetings, committees, and academic councils to contribute to policy development, curriculum planning, and quality assurance processes.
- Assisting in the recruitment, supervision, and evaluation of academic staff and research assistants, promoting a supportive and collaborative work environment.
- Managing administrative tasks related to course coordination, student advice, and assessment moderation to ensure compliance with institutional regulations and accreditation standards.

4. Community Engagement and Outreach:

- Providing advisory services and technical assistance to agricultural stakeholders, including farmers, veterinarians, and governmental agencies, on parasitic diseases and control strategies.
- Organizing and participating in workshops, conferences, and outreach programs to disseminate research findings, raise awareness, and promote best practices in parasitology.
- Collaborating with industry partners and professional associations to facilitate knowledge exchange, technology transfer, and capacity building initiatives.

5. Professional Development:

- Engaging in continuous learning and professional development activities, such as attending conferences, workshops, and training sessions, to stay abreast of advancements in parasitology and education.
- Seeking opportunities for scholarly activities, including publishing research articles, book chapters, and presenting at national and international conferences, to enhance visibility and credibility within the academic community.

18/02/2011 – 30/08/2019 Faisalabad, Pakistan

ASSISTANT PROFESSOR (TENURE TRACK SYSTEM) UNIVERSITY OF AGRICULTURE

08/02/2010 – 18/02/2011 Faisalabad, Pakistan

ASSISTANT PROFESSOR UNIVERSITY OF AGRICULTURE

1. Teaching:

-Delivering lectures, tutorials, and practical sessions for undergraduate and graduate students.

25/10/2003 – 07/02/2010 Faisalabad, Pakistan

LECTURER UNIVERSITY OF AGRICULTURE

30/12/2002 – 24/10/2003 Faisalabad, Pakistan

TEACHER OF PER LECTURE BASIS UNIVERSITY OF AGRICULTURE

1. Delivering lectures, tutorials, and practical sessions to undergraduate students.
2. Fostering an interactive learning environment conducive to student engagement and participation.
3. Engaging in continuous professional development to enhance teaching effectiveness and subject matter expertise.

11/10/2006 – 13/03/2007 Brisbane, Australia

VISITING ACADEMIC UNIVERSITY OF QUEENSLAND

10/10/2016 – 07/12/2016 Konya, Türkiye

VISITING ACADEMIC SELCUK UNIVERSITY

● **EDUCATION AND TRAINING**

2010 Faisalabad, Pakistan

DOCTOR OF PHILOSOPHY University of Agriculture

2004 Faisalabad, Pakistan

MSC (HONS) University of Agriculture

2002 Faisalabad, Pakistan

DOCTOR OF VETERINARY MEDICINE University of Agriculture

● **PUBLICATIONS**

2024

[Development of egg yolk-based polyclonal antibodies and immunoprophylactic potential of antigen-antibody complex against infectious bursal disease](#)

Sajid S, S Rehman, M Mohsin & ZUD Sindhu, 2024. Veterinary and Animal Science 23:100326

2023

[In vitro acaricidal and repellent effects of Amomum subulatum essential oil against Hyalomma ticks](#)

Khan AMA, RZ Abbas, ZuD Sindhu & MS Mahmood. Punjab Univ J Zool, 38(2):211-219

2023

Parasite control practices used by horse owners in Punjab, Pakistan

M Niaz, ZUD Sindhu, F Munir et al., Int J Agric Biosci 12: 257-261

[Curcumin co-encapsulation potentiates anti-arthritic efficacy of meloxicam biodegradable nanoparticles in adjuvant-induced arthritis animal model](#)

Aslam B, A Hussain, MN Faisal, ZuD Sindhu et al., Biomedicines, 11:2662

2023

[Model Nematodes as a practical innovation to promote high throughput screening of natural products for anthelmintics discovery in South Asia: current challenges, proposed practical & conceptual solutions](#)

Kamal M, S Mukherjee, B Joshi, ZuD Sindhu et al., Mol Biochem Parasitol, 256:111594

2023

Phytochemical analysis and gastroprotective effect of *Stellaria media* (L.) Vill. methanolic extract on piroxicam-induced gastric ulcer in Wistar rats

Aleem A, B Aslam, MB Alim, A Hussain, MN Faisal, Z-u-D Sindhu. Pak J Pharm Sci, 36:1425-34.

2023

Rationale to Develop mRNA-based Vaccines for *Trypanosoma brucei* (a review)

Munir F, ZuD Sindhu, M Tayyeb et al., Cont Vet J, 3:26-35

2023

Prevalence of haemoparasites and hematological parameters in pigeons of district Faisalabad, Pakistan

Nadeem M, MK Khan, MAS Mughal et al., Agrobiological Rec 12:76-82.

2023

Anti-pyretic, analgesic, and anti-inflammatory activities of Meloxicam and curcumin co-encapsulated PLGA nanoparticles in acute experimental models

Aslam B, A Hussain, MU Bari et al., Metabolites, 13:935

2023

Polyphenols-rich polyherbal mixture attenuates hepatorenal impairment, dyslipidaemia, oxidative stress and inflammation in alloxan-induced diabetic rats

2023

Crimean-Congo hemorrhagic fever: Immunopathogenesis and recent advances in the development of vaccines

Munir F, A Shakoar, ZuD Sindhu, MT Aleem. Microb Pathog, 177:106054

2022

Resistance to cypermethrin is widespread in Cattle Ticks (*Rhipicephalus microplus*) in the Province of Punjab, Pakistan: In vitro diagnosis of acaricide resistance

Sindhu ZuD, MU Naseer, A Raza et al., Pathogens, 11:1293

2022

Development of an immune complex vaccine against infectious bursal disease virus and its potential response in poultry birds

Sajid S, SU Rehman, M Mohsin, ZuD Sindhu. Iran J Med Microbiol, 16:528-36

2022

A new insight in immunomodulatory impact of botanicals in treating avian coccidiosis

Rizwan HM, MK Khan, MAS Mughal et al., J Parasit Dis

2022

IgY: a key isotype and promising antibody for the immunoprophylaxis therapy of Infectious Bursal disease virus infections

Sajid S, SU Rehman, M Mohsin, ZuD Sindhu. Microbiol Biotechnol Lett, 50:430–5

2022

Molecular epidemiology of *Cryptosporidium parvum* and *Giardia lamblia* in different water bodies, soil, and vegetables in Pakistan

Abbas Z, MK Khan, RZ Abbas, ZuD Sindhu et al., Health Secur

2022

A review of antimicrobial peptides: Its function, mode of action and therapeutic potential

Nayab S, MA Aslam, S Rahman, ZuD Sindhu et al., Int J Pep Res Ther, 28:46

2022

Effect of subclinical coxiellosis (Q fever) on selected hematological and serum biochemical variables of naturally infected camels

Hussain S, M Saqib, K Ashfaq and ZuD Sindhu. Pakistan J Zool.

2022

Efficacy of Allicin against multi-drug resistant *Escherichia coli* recovered from potable water

Nayab S, Sajjad ur Rahman, S Sajid, MI Abbas, **ZuD Sindhu**, M Idrees, MU Tariq, R Kanwar, I Farzand. Pure Appl Biol, 11:505-13

2021

Anticoccidial and biochemical effects of *Artemisia Brevifolia* extract in broiler chickens

Hussain K, RZ Abbas, A Abbas, MA Rehman, MA Raza, T Rehman, R Hussain, MSV Mahmood, M Imran, MAV Zaman, **ZuD Sindhu**, MK Khan, S Ali. Braz J Poult Sci, 23: 1-6

2021

First molecular evidence of *Coxiella burnetii* in ticks collected from dromedary camels in Punjab, Pakistan

Hussain S, M Saqib, K Ashfaq, **ZuD Sindhu**. Pak Vet J.

2021

Helminth protection against type-1 diabetes: an insight into immunomodulatory effect of helminth-induced infection

Mughal MAS, MK Khan, Z Abbas, RZ Abbas, HR Bajwa, AK Chatha, M Imran, **ZuD Sindhu**, A Abbas, A Zafar, M Nadeem. Mol Biol Rep

2021

Molecular Characterization and Demographic Study on Infectious Bursal Disease Virus in Faisalabad District

Sajid S, S Rahman, MM Gilani, ZuD Sindhu, MB Ali, A Hedfi, M Almalki, S Mahmood. Plos One, 16(8): e0254605

2021

Gut microbial dysbiosis and its association with esophageal cancer

Ishaq HM, IS Mohammad, KS Muhammad, H Li, RZ Abbas, **ZuD Sindhu**, S Ullah, Y Fan, A Sadiq, MA Raza, R Hussain, HM Arshad, I Khan, MU Waqas, A Ul-Rahman, R Yasin, A Rehman, RW Akhtar, J Xu. J Appl Biomed, 19(1): 1-13

2021

Synthesis, characterization and acaricidal activity of green-mediated ZnO nanoparticles against Hyalomma ticks

Zaheer T, M Imran, K Pal, MS Sajid, RZ Abbas, AI Aqib, MA Hanif, SR Khan, MK Khan, **ZuD Sindhu**, Su Rahman. J Mol Struct, 1227: 129652

2020

Anthelmintic effects and toxicity analysis of herbal dewormer against the infection of Haemonchus contortus and Fasciola hepatica in goat

Abbas RZ, MA Zaman, ZuD Sindhu, M Sharif, A Rafique, Z Saeed, TU Rehman, F Siddique, T Zaheer, MK Khan, MS Akram, AJ Chattha, U Fatima, T Munir, M Ahmad. Pak Vet J, 40(4): 455-460

2021

Probiotics as therapeutic, antioxidant and immunomodulatory agents against poultry coccidiosis

Mohsin M, RZ Abbas, G Yin, **ZuD Sindhu**, A Abbas, Z Huang, MT Aleem, Z Saeed, MZ Afzal, A Ejaz, M Shoaib. World's Poultry Science Journal

2020

Systematic Review of Ticks and Tick-Borne Pathogens of Small Ruminants in Pakistan

Ghafar A, T Abbas, A Rehman, **ZuD Sandhu**, A Cabezas-Cruz, A Jabbar. Pathogens 9:937

2020

Sero-prevalence of hydatidosis in camel population in different ecological zones of Balochistan Province, Pakistan

Hasni MS, MK Khan, M Imran, RZ Abbas, **ZuD Sindhu**, M Nadeem, M Arshad, R Hussain, MA Zaman, TU Rehman, A Zafar, Z Abbas. Intl J Agric Biol 24(2):366–370

2020

Repellent and acaricidal activity of essential oils and their components against Rhipicephalus ticks in cattle

Salman M, RZ Abbas, M Israr, A Abbas, K Mehmood, MK Khan, ZuD Sindhu, R Hussain, MK Saleemi, S Shah. Vet Parasitol 283: 109178

2020

Documentation of naturally occurring nematophagous fungi in faeces/soil in hilly areas of Pakistan and investigation of the effect of season on their frequency distribution

2020

Immunological response of selected indigenous goat breeds of Pakistan towards artificial infection with Haemonchus contortus

Imran M, MS Sajid, RZ Abbas, M Saqib, MN Khan, **ZuD Sindhu**, MK Khan. Pak J Agric Sci, 56(3): 879-886

2019

Comparative efficacy of domestic garlic (Allium sativum) and neem (Azadirachta indica) against Haemonchus contortus in small ruminant

Azra A, M Kaleemullah, B Khattak, N Asma, AuR Safi, J Qaiser, M Afzal, U Tahir, **ZuD Sindhu**, Y Farhan. Appl Ecol Environ Res, 17(5): 10389-10397

2019

Evaluation of anti-oxidant and anti-ulcerogenic activity of Cannabis sativa extract against aspirin-induced gastric ulcer in rabbits

Naeem S, B Aslam, **ZuD Sindhu**, M Mohsin, A Hussain, R Siddique, F Ahmed. Int J Biosci, 15(4): 462-70

2019

Potential of botanical driven essential oils against Haemonchus contortus in small ruminants

Fayaz MR, RZ Abbas, A Abbas, MK Khan, MA Raza, M Israr, JA Khan, MS Mahmood, MK Saleemi, T Rehman, MA Zaman, **ZuD Sindhu**. Boletin Latinoamericano y del Caribe de Plantas Medicinales y Aromaticas, 18(6): 533-543

2019

Anticoccidial effects of Trachyspermum ammi (Ajwain) in broiler chickens

Abbas A, RZ Abbas, MK Khan, MA Raza, MS Mahmood, MK Saleemi, T Hussain, JA Khan, **ZuD Sindhu**. Pak Vet J, 39(2): 301-304

2019

Prevalence, Haematological Alterations and Chemotherapy of Bovine Anaplasmosis in Sahiwal and Crossbred Cattle of District Faisalabad, Punjab, Pakistan

Shaukat A, K Medmood, I Shaukat, TU Rehman, MA Naeem, A Mehfooz, MI Saleem, **ZuD Sindhu**, SA Rajput, M Hassan, S Umar, MA Jamil, RZ Abbas, AS Qureshi. Pakistan J Zool, 51(6): 2023-2032

2019

Right choice and proportion can make blend of edible oils a good growth promoter and a potential source for designer meat production in chicken

Ashraf M, A Haq, F Ahmad, **ZuD Sindhu**, AR Asif, U Farooq, MF Khalid, M Auon and M Sharif. Pak J Agri Sci, 56(4): 969-975

2019

Seroprevalence of Fasciola hepatica in small ruminants of District Chakwal, Punjab, Pakistan

Zafar A, MK Khan, **ZuD Sindhu**, RZ Abbas, S Masood, Z Abbas, MS Mahmood, MK Saleemi, JA Khan, R Hussain, MU Naseer, Z Iqbal and H Javed. Pak Vet J, 39(1): 96-100

2019

Human cryptosporidiosis: an insight into epidemiology, modern diagnostic tools and recent drug discoveries

Zafar A, MK Khan, Z Abbas, RZ Abbas, **ZuD Sindhu**, Z Iqbal, MS Hasni, H Javed, M Nadeem, JuR Bajwa, MAS Mughak and F Yasin. Adv Life Sci, 6(2): 60-70

2018

Acaricidal and insecticidal effects of essential oils against ectoparasites of veterinary importance

Abbas A, RZ Abbas, S Masood, Z Iqbal, MK Khan, MK Saleemi, MA Raza, MS Mahmood, JA Khan, **ZuD Sindhu**. Boletin Latinoamericano y del Caribe de Plantas Medicinales y Aromaticas, 17(5): 441 - 452

2018

Biological control of Haemonchus contortus by fungal antagonists in small ruminants

Khattak B, AuR Safi, ZuD Sindhu, M Attaullah, Q Jamal, TA Khan, M Hussain, SI Anjum, M Israr, IA Khan. Appl Ecol Environ Res, 16(5):5825-5835

2018

Hematological and serum biochemical effects of aflatoxin B1 intoxication in broilers experimentally infected with fowl adenovirus-4 (FAdV-4)

Naseem MN, MK Saleemi, RZ Abbas, A Khan, A Khatoon, ST Gul, M Imran, **ZuD Sindhu**, A Sultan. Pak Vet J, 38(2): 209-213

2017

In vivo anticoccidial effects of Beta vulgaris (sugar beet) in broiler chickens

Abbas A, Z Iqbal, RZ Abbas, MK Khan, JA Khan, **ZuD Sindhu**, MS Mahmood, MK Saleemi. Microb Pathog, 111:139-144

2017

Hyperlipidemia and associated risk factors: synthetic drugs or medicinal plants? An important question

Naseer MU, ZU Abadeen, R Hafeez, RZ Abbas, B Aslam, Z Iqbal, M Imran, MK Khan, **ZuD Sindhu**. J Toxicol Pharmaceut Sci, 1: 101-114

2017

An Overview of the Plants with Acaricidal and Anthelmintic Properties

Zaman MA, Z Iqbal, **ZuD Sindhu**, RZ Abbas, MF Qamar. Int J Agric Biol, 19:957-968

2017

Effect of supplementing olive, blackseed and flaxseed oils on growth performance and serum biochemistry of broiler and economics of its production

Ashraf M, AU Haq, F Ahmad, **ZuD Sindhu**. Int J Agric Biol, 19: 951-956

2017

A study of ticks and tick-borne livestock pathogens in Pakistan

Karim S, K Budachetri, N Mukherjee, J Williams, A Kausar, MJ Hassan, S Adamson, SE Dowd, D Apanskevich, A Arijio, **ZuD Sindhu**, MA Kakar, RMD Khan, S Ullah, MS Sajid, A Ali, Z Iqbal. PLOS Neglect Trop Dis, 11: e0005681

2017

Prevalence and associated risk factors of haemoparasites, and their effects on hematological profile in domesticated chickens in District Layyah, Punjab, Pakistan

Naqvi MA, MK Khan, Z Iqbal, HM Rizwan, MN Khan, SZ Naqvi, A Zafar, **ZuD Sandhu**, RZ Abbas, A Abbas. Prev Vet Med, 143: 49-53

2017

Prevalence of ectoparasitic fauna and efficacy of two commercial acaricides against Argus persicusin Layer Poultry

Sindhu ZuD, Z Shafiq, MU Naseer, MN Khan, MK Saleemi, B Aslam, RZ Abbas, MK Khan. Mat Sci Pharm, 1: 39-40

2016

Determination of florfenicol residues in broiler meat and liver samples using RP-HPLC with UV-visible detection

Nasim A, B Aslam, I Javed, A Ali, F Muhammad, A Raza, **ZuD Sindhu**. J Sci Food Agric, 96(4):1284-1288

2015

Tick-borne diseases of bovines in Pakistan: major scope for future research and improved control

Jabbar A, T Abbas, **ZuD Sandhu**, HA Saddiqi, MF Qamar, RB Gasser. Parasites & Vectors, 8: 283

2015

Histopathological evaluation of Glycyrrhiza glabra on aspirin induced gastric ulcer in mice

Awan T, B Aslam, I Javed, T Khaliq, A Ali, **ZuD Sindhu**. Pak J Agri Sci, 52(2): 563-568

2014

In vitro ovicidal and wormicidal activity of six medicinal plants against Haemonchus contortus

Sindhu ZUD, Z Iqbal, M Asim, A Ahmad, RZ Abbas, B Aslam. Int J Agric Biol, 16(6): 1199-1203

2014

Combination of Nicotiana tabacum and Azadirachta indica: A novel substitute to control levamisole and ivermectin resistant Haemonchus contortus in ovine

Hamad KK, Z Iqbal, ZUD Sindhu, RZ Abbas, A Khan, G Muhammad, B Epperson. Pakistan Vet J, 34(1): 24-29

2014

Integrated strategies for the control and prevention of dengue vectors with particular reference to Aedes aegypti

Abbas A, RZ Abbas, JA Khan, Z Iqbal, MMH Bhatti, **ZuD Sindhu**, MA Zia. Pakistan Vet J, 34: 1-10

2013

Role of natural antioxidants for the control of coccidiosis in poultry

Masood S, RZ Abbas, Z Iqbal, MK Mansoor, **ZUD Sindhu**, MA Zia, JA Khan. Pakistan Vet J, 33(4): 401-407

2013

Lipid lowering effects of some plant seeds, bark and honey in hyperlipidaemic albino mice

Aslam B, M Sattar, I Javed, T Khaliq, A Ali, **ZuD Sindhu**, M Sarfraz. World J Pharmaceut Res, 2: 2974-2984

2013

Antidiabetic efficacy of Mimosa pudica (lajwanti) root in albino rabbits

Bashir R, B Aslam, I Javed, F Muhammad, **ZuD Sindhu**, M Sarfraz and A Fayyaz. Int J Agric Biol, 15: 782-786

2013

Gastroprotective effect of Berberis vulgaris (Zereshk) seeds against gastric ulcer induced by aspirin in male adult albino mice

Aslam B, W Majeed, I Javed, F Muhammad, T Khaliq, JA Khan, A Ali and **ZuD Sindhu**. Indo American J Pharmaceut Res, 3: 4518-4527

2013

In vitro and in vivo anthelmintic activity of Ferula costata (kor.) against gastrointestinal nematodes of sheep

Kakar SA, Tareen RB, **Sandhu ZuD**, Kakar MA, Kakar SuR, Iqbal Z and Jabeen H. Pakistan J Bot, 45(SI): 263-268

2013

Antinematocidal activity of *Nicotiana tabacum* L. leaf extracts to control benzimidazole-resistant *Haemonchus contortus* in sheep

Hamad KK, Z Iqbal, **ZuD Sindhu** and G Muhammad. Pakistan Vet J, 33(1): 85-90

2013

An account of botanical anthelmintics and methods used for their evaluation

Lateef M, Z Iqbal, MS Sajid, RZ Abbas, **ZuD Sindhu**, M Akhtar, MN Khan, MM Awais, A Iqbal, QU Ain. Rev Vet Anim Sci, 1: 7–14

2012

Options for integrated strategies for the control of avian coccidiosis

Abbas RZ, Z Iqbal, A Khan, **ZuD Sindhu**, JA Khan, MN Khan, A Raza. Int J Agric Biol, 14(6): 1014-1020

2012

Evaluation of anthelmintic activity of different fractions of *Azadirachta indica* A. Juss seed extract

Iqbal Z, W Babar, ZuD Sindhu, RZ Abbas, MS Sajid. Pakistan Vet J, 32: 579-583

2012

Inventory of ethno-veterinary practices used for the control of parasitic infections in District Jhang, Pakistan

Sindhu ZuD, S Ullah, RZ Abbas, Z Iqbal, M Hameed. Int J Agric Biol, 14(6): 922-928

2012

Syringe test (modified larval immersion test): A new bioassay for testing acaricidal activity of plant extracts against *Rhipicephalus microplus*

Sindhu ZuD, NN Jonsson, Z Iqbal. Vet Parasitol, 189: 362-367

2011

Atypical (RIO) protein kinases from *Haemonchus contortus* - Promise as new targets for nematocidal drugs

Campbell BE, PR Boag, A Hofmann, C Cantacessi, CK Wang, P Taylor, M Hu, **ZuD Sindhu**, A Loukas, PW Sternberg, RB Gasser. Biotechnol Adv, 29: 338-350

2011

Determination of condensed tannin contents from different plants of kherimurat rangeland (Attock, Pakistan)

Iqbal Z, MS Sajid, RZ Abbas, **ZuD Sindhu**. J Agric Soc Sci, 7: 114–116

2010

Documentation of Ethnoveterinary practices used for treatment of different ailments in a selected hilly area of Pakistan

ZuD Sindhu, Z Iqbal, MN Khan, NN Jonsson, M Siddique. Int J Agric Biol, 12: 353–358

2009

Anthelmintic activity of *Ziziphus nummularia* (bark) and *Acacia nilotica* (fruit) against *Trichostrongylid* nematodes of sheep

Bachaya HA, Z Iqbal, MN Khan, **ZuD Sindhu**, A Jabbar. J Ethnopharmacol, 123: 325-329

2008

Identification of Cross-Resistance and multiple resistance in *Eimeria tenella* field isolates to commonly used anticoccidials in Pakistan

Abbas RZ, Z Iqbal, **ZuD Sindhu**, MN Khan, M Arshad. J Appl Poult Res, 17: 361-368

2008

Efficacy of crude neem seed kernel extracts against natural infestation of *Sarcoptes scabiei* var. *ovis*

Tabassam SM, Z Iqbal, A Jabbar, **ZuD Sindhu**, AI Chattha. J Ethnopharmacol, 115: 284–287

2008

Sensitivity of *Eimeria tenella* field isolates against Maduramicin

Abbas RZ, Z Iqbal, **ZuD Sindhu**, MN Khan, M Arshad, MK Saleemi. Proceedings of The 15th Congress of FAVA, Bangkok-Thailand, October 27-30, 2008

2007

Prevalence of sheep mange in District Dera Ghazi Khan (Pakistan) and associated hematological/biochemical disturbances

Aatish HU, **ZuD Sindhu**, Z Iqbal, A Jabbar, Z Tasawar. Int J Agri Biol, 9: 917-920

2006

Comparative efficacy of five anthelmintics against trichostrongylid nematodes of sheep

Saddiqi HA, A Jabbar, Z Iqbal, W Babar, **ZuD Sandhu**, RZ Abbas. Canadian J Anim Sci, 86: 471-477

2006

Anticoccidial screening of *Azadirachta indica* (neem) in broilers

Abbas RA, Z Iqbal, MS Akhtar, MN Khan, A Jabbar, **ZuD Sandhu**. Pharmacologyonline, 3: 365-371

2006

Documentation of ethnoveterinary practices and evaluation of *Azadirachta indica* for treatment of sheep mange

Tabassam SM, Z Iqbal, A Jabbar, **ZuD Sindhu**, Abbas R.Z. Proceedings 12th AAAP Animal Science Congress, Busan-Korea, September 18-22, 2006

2005

The Interplay of molecular biology and veterinary parasitology: A need of the time

Jabbar A, Z Iqbal, G Muhammad, MN Khan, RZ Abbas, **ZuD Sindhu**, M Lateef. Int J Agri Biol, 7: 845-52

2005

An appraisal of training in veterinary parasitology in teaching institutions of Pakistan: contrasts with global approaches in veterinary education

Jabbar A, Z Iqbal, G Muhammad, **ZuD Sindhu**. Pakistan Vet J, 25: 35-39

2004

Veterinary education in Pakistan: past scenario and future requirements

Iqbal Z, G Muhammad, A Jabbar, **ZuD Sindhu**. Int J Agri Biol, 6:753–7

2003

Herbal dewormers in livestock - A traditional therapy

Z Iqbal, MS Akhtar, **ZuD Sindhu**, MN Khan, A Jabbar. Int J Agri Biol, 5: 199-206

● **EXTENSION ARTICLES**

2003

Bheir bakrion mein aik mohlik marz – Gid

Zafar Iqbal, Abdul Jabbar, **Zia-ud-Din Sindhu**. Zaraii Digest. p. 63-64. (Urdu)

2005

Tufaeli bimarion kay tadaruk kay leye rehanuma asul

Rao Zahid Abbas, Zafar Iqbal Randhawa, **Zia-ud-Din Sindhu**. Zaraii Digest. p. 68. (Urdu)

2010

Adweati podoun ki afadiat aur Chicheron ka tadaruk

Zia ud Din Sindhu. Zaraii Digest. p. 73, Festival Number, 2010. (Urdu)

2013

Congo Fever. Veterinary News & Views

Naseer MU, **ZuD Sindhu**, Z Iqbal.

2014

Congo bukar ka tarekhi pas-e-manzar, ilaj aur ahtiati tdabeer

Naseer MU, **ZuD Sindhu**, RZ Abbas, Zaraii Digest. p. 35-36, (Urdu)

2014

Haemonchosis: a threat to small ruminants

Sindhu ZuD, MU Naseer, RZ Abbas. Veterinary News & Views.

2014

Swine flu. Veterinary News & Views

Zafar T, **ZuD Sindhu**, MU Naseer.

2014

Katroun bachroun ko gosht kay leye farba kerna

Naseer MU, **ZuD Sindhu**. (urdu). Veterinary News & Views,

2014

One health approach against zoonotic diseases.

Naseer MU, **ZuD Sindhu**. Veterinary News & Views.

2014

Targeted selective treatment against anthelmintic resistance.

Naseer MU, **ZuD Sindhu**, M Munawar. Veterinary News & Views.

2014

Deadly ebola virus WHO issues warning.

Naseer MU, **ZuD Sindhu**, T Zafar. Taraqi ka Safar

2015

Bakrion kay nozaida bachon ki daikh bhal.

Naseer MU, **ZuD Sindhu**, M Imran. (Urdu article). Veterinary News & Views.

2015

Scope of 'Halal meat industry' of Pakistan.

Naseer MU, **ZuD Sindhu**, Irshad MS. Technology Times.

2015

Organic livestock farming is road to quality food.

Naseer MU, Irshad MS, **ZuD Sindhu**. Technology Times.

2015

Integrated farming system.

Irshad MS, MU Naseer, **ZuD Sindhu**. Kisan Wing

2015

Medicinal plants; a potential sources of treatment for cardiovascular diseases.

Aslam B, **ZuD Sindhu**, MU Naseer, A Raza, S Hassan. Veterinary News & Views.

2015

Biogas production from livestock manure.

Irshad MS, MU Naseer, **ZuD Sindhu**. Technology Times.

2015

Notorious tiny creature – Dengue virus.

MU Naseer, **ZuD Sindhu**. Technology Times.

2016

Bheron ki mukhtalif naslein aur unki khasosiat

Naseer MU, **ZuD Sindhu**. (Urdu). The Veterinary News and Views.

2016

Protect yourself from deadly Congo Fever on Eid-ul-Azha.

Naseer MU, **ZuD Sindhu**. Agri World.

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2017

Unified efforts of physicians and veterinarians to manage tick-borne diseases

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, G. Muhammad, A. Raza, R.Z. Abbas. One Health International Conference (OHC 2017) held on November 13-15, 2017 at College of Veterinary and Animal Sciences (CVAS), Jhang, Sub Campus, University of Veterinary and Animal Sciences (UVAS) Lahore, pp. 110

2017

Present and future role of Parasitology in One Health paradigm

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, R.Z. Abbas, M.K. Khan. One Health International Conference (OHC 2017) held on November 13-15, 2017 at College of Veterinary and Animal Sciences (CVAS), Jhang, Sub Campus, University of Veterinary and Animal Sciences (UVAS) Lahore, pp. 108

2018

Economic impact of ticks and tick-borne diseases on dairy sector

Zafar T, M.U.Naseer, **ZuD. Sindhu**, Z.U. Abadeen, Khan. Proceedings of the “International Conference on Dairy Animal Health Challenges” held on January 17-18, 2018, organized by Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan, pp. 45

2018

Hard ticks parasitizing global dairy sector economies

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, G. Muhammad, R.Z. Abbas, B. Aslam, M.K. Khan. Proceedings of the “International Conference on Dairy Animal Health Challenges” held on January 17-18, 2018, organized by Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan, pp. 47

2018

Replacement of synthetic acaricides with herbal approach

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, R. Hafeez, R.Z. Abbas, A. Said, K. Tariq. Proceedings of the “International Conference on Dairy Animal Health Challenges” held on January 17-18, 2018, organized by Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan, pp. 79

2018

In vitro and in vivo, evaluation of ethnobotanicals used against parasites in Pakistan

Zaman M.A., R.Z. Abbas, **ZuD. Sindhu**, Z. Iqbal, M.F. Qamar, G. Muhammad, K. Ali. Proceedings of the “International Conference on Dairy Animal Health Challenges” held on January 17-18, 2018, organized by Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan, pp. 80

2018

Food-borne parasites: A hindrance in the safe food supply

Rashid M., **ZuD. Sindhu**, M.U. Naseer, S. Amin, N.U. Ain, S. Aslam. Project dissemination workshop on Nutritional awareness of school going children and review of nutrition and food safety curricula practiced at higher educational institutes of Pakistan held on February 22, 2018 at National Institute of Food Science & Technology, University of Agriculture, Faisalabad, Pakistan, pp. 39-40

2018

Effects of foodborne parasites and strategies for their control

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, T. Zafar, S. Shoaib. Project dissemination workshop on Nutritional awareness of school going children and review of nutrition and food safety curricula practiced at higher educational institutes of Pakistan held on February 22, 2018 at National Institute of Food Science & Technology, University of Agriculture, Faisalabad, Pakistan, pp. 49-50

2018

Consequences of unsafe and insecure food products in developing countries

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, M.I. Anwar, M. Rashid, R.Z. Abbas, B. Aslam. Project dissemination workshop on Nutritional awareness of school going children and review of nutrition and food safety curricula practiced at higher educational institutes of Pakistan held on February 22, 2018 at National Institute of Food Science & Technology, University of Agriculture, Faisalabad, Pakistan, pp. 50-51

2018

Market-oriented food safety through public-private partnership

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, G. Muhammad, M.K. Khan, R.Z. Abbas. Project dissemination workshop on Nutritional awareness of school going children and review of nutrition and food safety curricula practiced at higher educational institutes of Pakistan held on February 22, 2018 at National Institute of Food Science & Technology, University of Agriculture, Faisalabad, Pakistan, pp. 51-52

2019

Haemochotolerent goat breeds: a way towards safe and secure food in Pakistan

Imran M., M.S. Sajid, R.Z. Abbas, **ZuD. Sindhu**, M.K. Khan, A. Qudoos. 1st International Conference on "Agriculture and Biological Sciences" held on 27-30 March, 2019, organized by Faculty of Basic and Applied Sciences, the University of Haripur, Pakistan, pp. 434

2019

Limitations and scope of vaccine development in parasitic diseases

Naseer M.U., **ZuD. Sindhu**. International Parasitology Conference (PARACON) held on November 6, 2019 at the University of Veterinary and Animal Sciences, Lahore, Pakistan. pp: 55

2019

Traditional Materia medica in the age of modern allopathic drugs

Naseer M.U., **ZuD. Sindhu**, T. Zafar, Z. Iqbal, B. Aslam, R.Z. Abbas, M. Imran, M.K. Khan. International Parasitology Conference (PARACON) held on November 6, 2019 at the University of Veterinary and Animal Sciences, Lahore, Pakistan. pp: 56

2019

Successful Behaviour of Rhipicephalus mircoplus to develop acaricide resistance

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, R.Z. Abbas, M. Imran, B. Aslam. International Parasitology Conference (PARACON) held on November 6, 2019 at the University of Veterinary and Animal Sciences, Lahore, Pakistan. pp: 59

2019

Myiasis in humans: an update on its global distribution

Abbas Z., M.K. Khan, R.Z. Abbas, **ZuD. Sindhu**, A. Zafar, A. Virk, H.u.R. Bajwa, M. Nadeem, M.S. Hasni, S.S. Khan. International Parasitology Conference (PARACON) held on November 6, 2019 at the University of Veterinary and Animal Sciences, Lahore, Pakistan. pp: 60

2019

The Impact of Climate Change on livestock and its Mitigation Strategies

Murtaza S., M. Imran, M.S. Sajid, **ZuD. Sindhu**, M.K. Khan, M.U. Naseer, A. Shamim. Proc. 6th International Conference on Sustainable Agriculture in Changing Climate: Strategies and Management held on June 19-21, 2019, Rawalakot, Azad Jammu and Kashmir-Pakistan. pp. 256

2019

Transmission of zoonotic parasites: an update on parasite adaptation in changing climate

Ayub H.S., M. Imran, M.S. Sajid, **ZuD. Sindhu**, M.K. Khan, A. Qadoos, A. Shamim. Proc. 6th International Conference on Sustainable Agriculture in Changing Climate: Strategies and Management held on June 19-21, 2019, Rawalakot, Azad Jammu and Kashmir-Pakistan. pp. 256-57

2019

Organic livestock farming for quality food products

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, M. Imran, B. Aslam. Proc. 6th International Conference on Sustainable Agriculture in Changing Climate: Strategies and Management held on June 19-21, 2019, Rawalakot, Azad Jammu and Kashmir-Pakistan. pp. 268-69

2019

Raising Livestock economy to address the challenge of food security

Naseer M.U., **ZuD. Sindhu**, Z. Iqbal, B. Aslam, M. Imran, M.Z. Abbas, R.Z. Abbas, M.K. Khan, M.H. Ahmed. Proc. 6th International Conference on Sustainable Agriculture in Changing Climate: Strategies and Management held on June 19-21, 2019, Rawalakot, Azad Jammu and Kashmir-Pakistan. pp. 252

2020

Blood parasites of owned dogs: an insight into potential diagnostic methods to identify the threat

Altaf H., M. Imran, M.S. Sajid, R.Z. Abbas, **ZuD Sindhu**, M.K. Khan. 3rd International Conference on Applied Zoology-2020 held online on 7-8 December, 2020. PP. 60

2023

Potential use of Caenorhabditis elegans as a model organism in biomedical research with a focus on neuroscience

Munir F, **ZuD Sindhu**, M Imran, B Aslam, S Nageen, 2023.. 1st International Brain and Biomedicine Conference held on May 18-19, 2023, Government College University Faisalabad, Pakistan. O150

PROJECTS

2009

Construction of mobile dip and demonstration and dissemination of its use for tick control

Sponsored by Endowment fund secretariat, University of Agriculture, Faisalabad (Rs. 1.862 Million); PI: Prof. Dr. Zafar Iqbal; Co-PI: Dr. Zia-ud-Din Sindhu (Completed)

Development, Evaluation and Promotion of herbal anticoccidial(s) for the control of coccidiosis in poultry

(Rs. 10.127 million) By: Punjab Agriculture research Board. (Team Member)

Integrated control of drug resistant/susceptible worms of goat by targeted selective treatments using FAMACHA

(Rs 1.788 million) sponsored by Endowment fund secretariat, University of Agriculture, Faisalabad (Principal Investigator)

Diagnosis of acaricide resistance in ticks of cattle and management of acaricide resistant ticks by using medicinal plant extracts

(Rs. 2.8 million) sponsored by PAK-US Natural Science Linkage Programme, Pakistan Science Foundation (Principal Investigator)

Construction of mobile dip and demonstration and dissemination of its use for tick control

(Rs. 2.65 million) sponsored by Endowment Fund of Economic Wing, Ministry of National Food Security and Research, Government of Pakistan (Principal Investigator)

Development of eco-friendly plant based acaricides for the effective control of cattle ticks

(Rs 16.674 million) By: Punjab Agriculture research Board. (Team Member)

● LECTURES DELIVERED (INTERNATIONAL)

2018

In vitro evaluation of entomopathogenic fungi for control of hard ticks in Pakistan

International Congress on Agriculture and Animal Sciences held in Alanya, Turkey from 07-09 November, 2018

Ecology of tick-borne diseases in wildlife

Resource Person at Training School Punjab Wildlife Research Centre, Gatwala, Faisalabad

2017

Validation of FAMACHA© system in different sheep breeds of Pakistan

26th International Conference of the World Association for the Advancement of Veterinary Parasitology in Kuala Lumpur, Malaysia from 04-08 September, 2017

2011

Acaricidal activity of some selected Pakistani plants

23rd International Conference of the World Association for the Advancement of Veterinary Parasitology in Buenos Aires, Argentina from 21-25 August, 2011

2006

Documentation of ethnoveterinary practices and evaluation of *Azadirachta indica* for treatment of sheep mange

12th AAAP Animal Science Congress organized by Asian-Australasian Association of Animal Production Societies, in Busan- Korea on September 18-22, 2006

2005

Comparative efficacy of neem (*Azadirachta indica* A. Juss) oil and ivermectin against natural infestation of *Boophilus microplus* (Ixodidae: Ixodidae) in Sahiwal Calves

2nd National Conference on Agriculture and Animal Sciences organized by Sindh Agriculture University, Tandojam on November 23–25, 2005

2005

Preliminary Observation on the Acaricidal Activity of 10% Neem Seed Kernel Extract in Cattle Calves

1st Kashmir International Science Conference organized by University of Azad Jammu & Kashmir in collaboration with HEC and Integrated Geosciences Research Project, University of A.J. & K. at University of Azad Jammu & Kashmir, Muzaffarabad (A.K.) Pakistan on September 20-21, 2005

2005

Cross-sectional Survey on Traumatic Myiasis in Ruminants

1st Kashmir International Science Conference organized by University of Azad Jammu & Kashmir in collaboration with HEC and Integrated Geosciences Research Project, University of A.J. & K. at University of Azad Jammu & Kashmir, Muzaffarabad (A.K.) Pakistan on September 20-21, 2005

● CONFERENCES AND SEMINARS

2017

26th International Conference of the World Association for the Advancement of Veterinary Parasitology

Kuala Lumpur, Malaysia from 04-08 September, 2017

2012

1st Regional Society of Tropical Veterinary Medicine (STVM) Conference

Phuket, Thailand from June 18-21, 2012

2012

4th International Conference on Drug Discovery and Therapy

Dubai Men's College, UAE from February 12-15, 2012

2011

23rd. International Conference of the World Association for the Advancement of Veterinary Parasitology

Buenos Aires, Argentina from 21-25 August, 2011

2006

12th AAAP Animal Science Congress organized by Asian-Australasian Association of Animal Production Societies

Busan- Korea on September 18-22, 2006

2005

1st Kashmir International Science Conference

Organized by University of Azad Jammu & Kashmir in collaboration with HEC and Integrated Geosciences Research Project, University of A.J. & K. at University of Azad Jammu & Kashmir, Muzaarabad (A.K.) on September 20-21, 2005

2023

1st Pakistan Young Physiologists Symposium (PYPS-2023) on "The dynamics of metabolic disorders: Era of alternative & Complementary medicine"

Organized by the Department of Physiology, GC University, Faisalabad, Pakistan on 12-13 January, 2023

2021

Healthy Heart Symposium

Organized by the Faculty of Veterinary, University of Agriculture, Faisalabad on 29 September, 2021

2021

Attended as a member organizing committee 3rd National Symposium on "One Health"

Organized by the Faculty of Veterinary, University of Agriculture, Faisalabad on 08 September, 2021

2019

International Scholarly Publishing from Pakistan: Framework for Fast-paced Progress

Organized by Center for Excellence in Molecular Biology, University of Punjab, Lahore on 11 March, 2019

2018

National seminar on "Respiratory & Immunosuppressive Diseases of Poultry"

Organized by World Veterinary Poultry Association (WVPA-Pakistan Branch on 06 September, 2018

One day workshop on "Communicating Science to Society"

Jointly organised by Pakistan Scientific & Technological Information Centre (PASTIC) and Office of Research Innovation & Commercialization, UAF

2018

One day seminar on "Hepatitis B & C in Pakistan: Diagnosis, Treatment and Prevention"

Organized by Institute of Microbiology, University of Agriculture Faisalabad on February 27, 2018

2018

International conference on "Dairy Animal Health Challenges (DAHC-2018)"

Organized by Faculty of Veterinary Science, University of Agriculture, Faisalabad-Pakistan on 17-18 January, 2018

2017

International conference on “Foods of Animal Origin”

Organized by University of Agriculture, Faisalabad-Pakistan on 30-31 March, 2017

2016

National workshop on “Organic Food and Health: Avenues of Innovation and Entrepreneurship”

Organized by Pakistan Council for Science and Technology on August 29, 2016

2016

One day symposium on “One-Health”

Organized by U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security University of Agriculture, Faisalabad on August 08, 2016

2016

Workshop on “Assessment of Food and Water Quality at UAF Through Microbiological Standards”

Organized by Institute of Microbiology, University of Agriculture Faisalabad on March 24, 2016

2015

International workshop on “Building Capacity for Intellectual Property Management and Technology Transfer”

Jointly organized by U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security and Office of Research, Innovation & Commercialization University of Agriculture, Faisalabad on November 08-11, 2015

2015

Workshop on “How to Write a Winning Research Proposal for NRPU by HEC”

Organized by Office of research Innovation and Commercialization, University of Agriculture Faisalabad on April 19, 2015

2014

National Seminar on Avian Respiratory Diseases: a Serious Threat to Poultry Industry

Jointly organized by World Veterinary Poultry Association (Pakistan Branch) and Department of Parasitology, University of Agriculture Faisalabad on December 9, 2014

2013

Project Formulation Workshop

Organized by Pakistan Science Foundation at University of Agriculture Faisalabad on December 3-4, 2013

2013

Workshop on “Self-assessment and Quality Improvement in Research Report”

Organized by Quality Enhancement Cell, University of Agriculture, Faisalabad on 22-05-2013

2012

National Equine Breeding Conference 2012

University of Agriculture, Faisalabad on 15 March, 2012

2011

One day seminar on How to write a winning research proposal

May 7, 2011, New senate hall, University of Agriculture Faisalabad, Pakistan, Organized by ORIC and PARB

2011

One day seminar on epidemiology and control of major diseases of poultry in Pakistan

March 26, 2011, Institute of Microbiology, University of Agriculture Faisalabad, Pakistan

2011

One-day symposium on Livestock Production-National and Global Prospective

March 17, 2011. University of Agriculture Faisalabad, Pakistan

2011

Sahiwal Cow Festival

Livestock Farms, University of Agriculture Faisalabad, Pakistan, March 15, 2011

2011

Alumni Association Meet

University of Agriculture Faisalabad, Pakistan, March 16-17, 2011

2011

Golden Jubilee Festival

University of Agriculture Faisalabad, Pakistan, March 13-20, 2011

2011

Workshop on Statistical analysis using SPSS and MINITAB

University of Agriculture Faisalabad, Pakistan, 05-05 October, 2011

2011

International conference on “Sustainable Approaches for Pest and Vector Control Management in Pakistan”

Lahore College for Women University, Lahore, 21-22 February, 2011

2010

National Poultry Conference

Held at University of Agriculture, Faisalabad on 23 March, 2010

2010

Stakeholders Workshop on Developing Modules for Trainers and Trainees of DVM Internship Program

Held on 02 February 2010 in New Senate Hall, University of Agriculture, Faisalabad

2008

National Seminar on Animal Health-Reflections and Future Horizons

Held at University of Agriculture, Faisalabad on March 6, 2008

2005

2nd National Conference on Agriculture and Animal Sciences

Organized by Sindh Agriculture University, Tandojam on November 23–25, 2005

2005

Symposium on “Unani Medicine: Challenges and Future Perspective

Organized by Pakistan Association for Eastern Medicine held on March 27, 2005 at Serena Hotel Faisalabad

2004

International symposium on “Medicinal plants: linkages beyond national boundaries”

National Agriculture Research Council, Islamabad (Pakistan) September 7–9, 2004

2004

Parasitology Conference (Paracon) on Recent Advances in Parasitology

Under the auspices of Pakistan Society of Parasitology, University of Veterinary & Animal Sciences, Lahore on May 29, 2004

2003

2nd National Livestock and Poultry Congress

At Aiwan-e-Iqbal, Lahore (Pakistan) September 26-27, 2003

2003

Served as repertoire in a Seminar on Ethno-veterinary Medicine Potentials and Opportunities

Old Senate Hall, University of Agriculture, Faisalabad (Pakistan) on March 11, 2003

2002

33rd All Pakistan Science Conference

Held at University of Agriculture, Faisalabad (Pakistan) on December 25-28, 2002

● **TRAINING COURSES ATTENDED / ORGANIZED**

2022

Organized a training Workshop (Member organizing committee) on “ELISA Based Diagnostics”

Organized by the Department of Biochemistry, University of Agriculture, Faisalabad 26 May, 2022

2017

Training workshop on “English for Academic Purposes”

Under transforming English language skills program organized by Higher Education Commission of Pakistan on December 12-14, 2017

2017

Training program on “Statistics for Veterinary & Animal Science using R”

Organized by University of Agriculture, Faisalabad on July 20-22, 2017

2017

Community Basic Life Support Orientation Course

Conducted by Punjab Emergency Service at University of Agriculture, Faisalabad May 08-09, 2017

2017

Completed 40 contact hours of a training program on “Prevention and detection of infectious zoonotic diseases in agricultural and public health sectors”

Organized by The University of Tennessee in Aman, Jordan (9-14 April, 2017)

2014

Crash course on “Project Management in Higher Education Institutions”

Organized by Faculty of Veterinary Sciences, University of Agriculture, Faisalabad (March 10, 2014)

2007

Participated in the “STATISTCA/MINITAB Training for Biological Sciences”

University of Agriculture, Faisalabad-Pakistan (August 6-11, 2007)

2006

Screening of Plants for Their Anti-tick Activity

University of Queensland, Brisbane-Australia (11-10-2006 to 13-03-2007)

2005

Information Technology Course on Basic I.T. Training

Organized by Professional Leadership Center, Faisalabad under the auspice of Ministry of Information Technology, Pakistan (19-12-2005 to 03-01-2006)

2004

Research Orientation Program on Research Methodology and Analytical Techniques

Organized by University of Agriculture, Faisalabad (September 21- October 6, 2004)

2004

EU Asia Link Project Short Course on Livestock Ecology, Sustainable Land Use and Livestock Systems

Organized by Department of Veterinary Anatomy, University of Agriculture, Faisalabad (January 12-24, 2004)

2003

EU Asia Link Project Short Course on Principles of Experimental Design and Analysis

Organized by Saline Agriculture Research Centre, University of Agriculture, Faisalabad (December 1-12, 2003)

Public Health Parasitology

Department of Veterinary Parasitology, University of Agriculture, Faisalabad

Insecticides and their application

Department of Veterinary Parasitology, University of Agriculture, Faisalabad, Pakistan

Basic Laboratory Procedures

Department of Veterinary Parasitology, University of Agriculture, Faisalabad, Pakistan

Chemotherapy of Parasitic Diseases

Department of Veterinary Parasitology, University of Agriculture, Faisalabad, Pakistan

Computer Application in Office Management

M.A. Jinnah college, Faisalabad