

# CURRICULUM VITAE



FULL NAME **BACHAL BHUTTO**  
FATHER'S NAME KHUDA BAKHSH  
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DATE OF BIRTH 20-12-1967  
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PLACE OF BIRTH LARKANA  
DOMICILE DISTRICT LARKANA (URBAN)  
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OFFICIAL ADDRESS DEPTT: OF VETERINARY PARASITOLOGY,  
FACULTY OF ANIMAL HUSBANDRY & VETERINARY  
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## ACADEMIC QUALIFICATIONS:

**PhD** Sindh Agriculture University Tandojam Pakistan (2014)  
Veterinary Parasitology **Thesis title:**  
Epidemiological study on fascioliasis in buffaloes









**MSc (Hons)** Sindh Agriculture University Tandojam Pakistan (2000)  
Veterinary Parasitology **Thesis title:** Study on the prevalence of gastro intestinal  
helminthes in buffalo calves

**DVM** Sindh Agriculture University Tandojam,  
(Doctor of Veterinary Medicine) Pakistan.1993. 1<sup>st</sup> Division

**FSc** Board of Intermediate and Secondary Education Sukkur, Sindh, Pakistan.  
1986. Second Division.

**Matriculation** Board of Intermediate and Secondary Education Sukkur, Sindh, Pakistan. 1983.  
Second Division.

## EXPERIENCE:

- |   |                         |   |
|---|-------------------------|---|
|  Veterinary Officer  | (19-06-94 to 02-07-95)  | Directorate of Animal Husbandry Sindh, Pakistan.<br>Duties: Veterinary Extension Services.  |
| <br> Research Officer | (03-07-95 to 04-08-96)  | Central Veterinary diagnostic Laboratory sub-centre Larkana Sindh, Pakistan.<br>Duties: Animal diseases Diagnosis.  |
|  Veterinary Officer  | (05-08-96 to 01-11-96)  | Directorate of Animal Husbandry Sindh, Pakistan.<br>Duties: Veterinary Extension Services.  |
|  Lecturer  | (02-11-96 to 12-2-2007) | Sindh Agriculture University Tandojam, Pakistan<br>Duties: Teaching undergraduate students for the degree of Doctor of Veterinary Medicine (D.V.M).   |
|  Assistant Professor   | (12-2-2007–5-11-2015)   | Sindh Agriculture University Tandojam, Pakistan<br>Duties: Teaching/ Research<br>Teaching undergraduate students for the degree of Doctor of Veterinary Medicine (D.V.M) and post-graduate student for degree of M.Sc(Hons) and M.Phil in Parasitology.       |
|  Associate Professor   | (6-11-2015–15-2-2017)   | Sindh Agriculture University Tandojam, Pakistan<br>Duties: Teaching/ Research<br>Teaching undergraduate students for the degree of Doctor of Veterinary Medicine (D.V.M) and Post-graduate student for degree of PhD, M.Sc (Hons) and M.Phil in Parasitology. |
|  Professor   | (16-02-2017– Todate)    | Sindh Agriculture University Tandojam, Pakistan<br>Duties: Teaching/ Research<br>Teaching undergraduate students for the degree of Doctor of Veterinary Medicine  |

(D.V.M) and Post-graduate student for degree of PhD, M.Sc (Hons) and M.Phil in Parasitology.

### Others

- ✚ Visiting Faculty (March to June, 2015) Shaheed Benazir Bhutto University of Veterinary and Animal Sciences, Sakrand, Sindh, Pakistan.

### COMPUTER SKILLS

- MS Windows 98/ME/2000/XP/VISTA/WIN7/WIN8/WIN10
- DOS 6.22
- MSTATC (Data Analysis Program)
- Graphpad (Biological Data Analysis Program)
- Ms Office 2000/XP/2003/2007/2010/360
- Instat (Biological data Analysis Program)
- Software and Hardware Installation

### LOCAL / INTERNATIONAL TRAINING (S)

S. No.	INSTITUTION / SPONSOR	Country	FROM	TO	FIELD
1	SAU/ARP-II/FAO/WB	Pakistan	8-3-1997	22-3-1997	Current Techniques in Vety. Surgery & Radiography
2	SAU/Univ. of Minnesota/IAP	Pakistan	23-6-1997	26-6-1997	Design & Analysis of Agricultural Field Experiments Through SPSS PC Package.
3	Deptt: of English , SAU, Tandojam, Pakistan	Pakistan	26-3-1998	20-4-1998	Professional Development for Teachers in Teaching methods/Skills.
4	Deptt: of Surgery and Obstetrics SAU, Tandojam, Pakistan / UNDP USA	Pakistan	04-10-1999	16-10-1999	Orthopaedic Surgery in Small Animals.
5	Deptt: of English , SAU, Tandojam, Pakistan	Pakistan	1-11-1999	08-12-1999	Teaching of Receptive and Productive Skills (Written and Spoken English)
6	Water Corporation, USA/ AIDL Pakistan	Pakistan	6-8-2002	6-8-2002	Chromatography technique on

						Gradiant Breeze HPLC System
7	Deptt: of Statistics , SAU, Tandojam, Pakistan	Pakistan	14-10-2002	1-11-2002	Linear Modeling Using “Staistix” Analytical Software	
8.	CTC, Pakistan Atomic Energy Council (PAEC) / HEC Islamabad	Pakistan	7-4-2003	6-10-2003	10 <sup>th</sup> Postgraduate Computer Orientation Course (PGCOC10)	
9.	National Core Group Life Sciences-HEC/Center for Advanced Studies in Vaccinology and Biotechnology (CASVAB) University of Balochistan, Quetta	Pakistan	27-5-2008	30-5-2008	Techniques in Molecular Biology, Bioinformatic and Vaccine Production	
10	Pakistan-US Science and Technology Cooperation funded under USAID and HEC Pakistan. University of Rhode Island USA.	USA	30-10-2011	16-12-2011	Tick and Tick born diseases molecular biology	
11	National Centre of Excellence in Analytical Chemistry of Sindh, Jamshoro, Pakistan.	Pakistan	18-2-2013	20-2-2013	Application of Chromatographic Techniques in Residue Analysis	
12	Resource Person in 2 day Training organized by Department of Vet. Prasitology, SAU Tandojam and Central Veterinary Diagnostic Laboratory Tandojam	Pakistan	16-6-2014	17—6- 2014	Molecular Detection of Parasites and Pathogens	
13	Joint collaboration between the Sindh Agriculture University Tando Jam and Institute of Physiology under project (PTDLR_GZ 3633026121) financed by the German Federal Ministry of Education and Research.	Germany	1-10-2015	30-10-2015	Techniques on Myocardial Cell Culture	

## MEMBER:

- ✚ Academic Council of Sindh Agriculture University Tandojam.
- ✚ Board of Studies, Department of Vety Parasitology Sindh Agriculture University Tandojam.
- ✚ Faculty Board of Studies, Faculty of Animal Husbandry and Veterinary Sciences, SAU Tandojam
- ✚ Pakistan Veterinary Medical Association.
- ✚ Pakistan Veterinary Medical Council
- ✚ Zoological Society of Pakistan.
- ✚ Sindh Agriculture University Teachers Association.
- ✚ Sindh Agriculture University Teachers Welfare Trust.
- ✚ Departmental Self-Assessment Committee for Quality Enhancement
- ✚ Management Committee of Central Library SAU Tandojam
- ✚ Allotment Committee for SAU residential Colony
- ✚ Management Committee for Bukhari Model School
- ✚ University prospectus committee
- ✚ International/National conference committee

## PROJECTS:

➤ **Co-Principal Investiator,**

**Project Title:** Helminthiasis in Buffalo Calves

Funded by Sindh Agriculture University Tandojam, Pakistan (1998).

➤ **Co-Principal Investiator,**

**Project Title:** Building Molecular biology capacity for preventing tick-transmitted disease in Pakistan.

Sponsored by Pak-USAID Science and Technology Cooperation Program

## RESEARCH SUPERVISOR:

### M.Sc.

1. Haji Khan Kaloi, (2014) Title: “Survey of ecto-parasitic infestation and associated conditions in livestock at Tando Allahyar animal market.”

## M.Phil

1. Fazliraziq (2015). Title: “Molecular Survey of Piroplasms in Tick-infested and Tick-free Buffaloes in Landhi Cattle Colony Karachi.”
2. Shah Fahad (2016). Title: “Study on Prevalence and Control Practices of Gastro Intestinal Helminthes in Camel at Distract Tharparkar.”
3. Zia ur Rehman (2016). Title: “Study on Molecular Diagnose and Hematological values of Camels Naturally infected with Trypanosomiasis at Distract Tharparkar.”
4. Farah Bhutto (2016). Title: “Molecular detection of *Anaplasma marginale* in carrier buffaloes.”
5. Fazlullah (2016). Title: “Study on Prevalence and Control Practices of Gastro Intestinal Helminthes of Small Ruminants in District Tharparkar.”

## RESEARCH CO-SUPERVISOR

## PhD

Two Students

## M.Sc.

1. Majid Ali Soomro, (2009). Title: ‘PCR detection of anaplasma infection using membrane surface protein (mps) in naturally infected cattle and buffalo.’
2. Zulfiquar Ali Detho, (2011). Title: “Effect of neem seed extracts on ticks”.

## M.Phil

1. Abdul Haseeb (2013).Title: “Histomorphological studies on lymphoid organs of Aseel chicken.”
2. Muhammad Ehsan (2014). Title: “Prevalence and genotyping characterization of Bovine *Echinococcus granulosus* isolates by using Cytochrome Oxidase Sub-Unit 1 (CO1) Gene.”
3. Iqbal Ahmed Memon (2014). Title: “Molecular Genotyping of Kappa-Casein gene in Red Sindhi cattle and kundhi buffalo.”
4. Azizullah Ranjhani (2014). Title: “Effect of various extraction methods and storage conditions on DNA quality of primary sex organs of kundhi buffalo.”
5. Noreen Mehmood Qaimkhani (2014). Title: “Biological control of mosquito larvae using edible fish.”
6. Sana Noor Panhwer (2014). Title: “Comparative study on conventional and molecular detection of Plasmodium in humans and poultry birds.”

7. Mahvish Aslam (2015). Title: "Prevalence of Paramphistomiasis in Sheep: A Molecular Approach Towards Identification."
8. Qudratullah Kalwar (2015). Title: "Evaluation of estrus behavior and fertility rate following estrus synchronization in kundhi buffaloes."
9. Saud Farooque Qaimkhani (2016). Title: "Testing larvicidal effect Papaya (*Cassia sophera* L.) seed extract on Anopheles mosquito."
10. Imam Bakhsh (2016). Title: "Study on occurrence of Babesiosis in buffaloes at cattle colony Hyderabad: A molecular diagnostic approach."
11. Raz Ali Soomro (2016). Title: "Efficacy testing of onion bulb extract as repellent against *Musca domestica*."
12. Raza Ali Mangi (2016). Title: "Histomorphological Studies on Major Lymphoid Organs of Japanese Quail (*Coturnix coturix japonica*)."

## PUBLICATIONS:

### DISSERTATIONS

1. **Bhutto, B.** (2000). Study on the prevalence of gastro-intestinal helminthes in buffalo calves. M.Sc. Thesis, Sindh Agriculture University Tando Jam, Pakistan
2. **Bhutto B.** (2014). Epidemiological study on fascioliasis in buffaloes. PhD Thesis, Sindh Agriculture University Tando Jam, Pakistan

### PRACTICAL MANUALS/BOOKS

1. **Veterinary Entomology, Practical Manual (2013)**  
*Bachal Bhutto, Abdullah Arijo, Javaid Ali Gadahi and Nasreen Akhter, SAU Tandojam*
2. **Veterinary Helminthology, Practical Manual (2012)**  
*Javaid Ali Gadahi, Bachal Bhutto and Abdullah Arijo*

## RESEARCH PAPERS

S. No.	Title	Year	Status
1	<b>Bhutto B.</b> , Phullan.M.S, Rind.R, Soomro.A.H (2002). Prevalence of gastro-intestinal helminthes in buffalo calves. Online Journal of Biological Sciences. Faisalabad Pakistan. 2 (1): 43-45.	2002	National
2	Dewani P., R. Rind and <b>B.Bhutto</b> (2002). Bacteriological Studies on Mastitis in ewes and goats. Journal of Animal and Veterinary Advances. 1(2): 98-100	2002	National
3	Soomro A. H., M.A.Arain, M.Khaskheli and <b>B. Bhutto</b> (2002). Isolation of Escherichia coli from Raw Milk and Milk Product in relation to public health sold under market conditions at Tandojam, Pakistan. Pak. J. of Nutr. 1(3):151-152.	2002	HEC Recognized (Available in 2005 List)
4	Soomro AH, M.A.Arain, M.Khaskheli and <b>B. Bhutto</b> (2003). Comparative study on physico-Chemical composition of industrial Yoghurt and indigenous Dahi. Online Journal of Biological Sciences. Faisalabad Pakistan. 3 (1): 86-90.	2003	National
5	Soomro A.H., M. A. Arain, M. Khaskheli, <b>B. Bhutto</b> and A.Q. Memon (2003). Isolation o Staphylococcus aureus from Milk Products sold at sweet meat shops of Hyderabad. Online Journal of Biological Sciences. Faisalabad Pakistan. 3 (1): 91-94.	2003	National
6	Talib Hussain Chandio, Aijaz Hussain Soomro, <b>Muhammad Bachal Bhutto</b> , Parkash Dewani and Ghiasuddin Shah (2007). Occurrence of Listeria monocytogenes in bovine milk in Hyderabad, Pakistan. Annals of Microbiology, 57(3): 341-344	2007	International (Thomson Reuters Listed IF: 1.232)
7	Javaid S.B, J.A. Gadahi, M. Khaskheli, <b>M.B. Bhutto</b> , S. Kumbher and A.H. Pahanwar, 2009. Physical and chemical quality of market milk sold at Tandojam, Pakistan. Pak. Vet. J., 29 (1) : 27-31.	2009	HEC Recognized (Thomson Reuters Listed with IF: 0.822)
8	<b>Bhutto B.</b> , J.A.Gadahi, G. Shah, P. Dewani and A.G. Arijo, 2010. Field investigation on the prevalence of trypanosomiasis in camels in relation to sex, age, breed and herd size. Pak. Vet. J., 30 (3) : 175-177.	2010	HEC Recognized (Thomson Reuters Listed with IF: 0.822)
9	Javaid Ali Gadahi, <b>Bachal Bhutto</b> , Abdullah Arijo and Nasreen Akhter, 2010. Human Louse Infestation: A Case Report., International Journal of Agro Veterinary and Medical Sciences, 4 (3): 63-66.	2010	International (USA)



- 10 Aijaz Hussain Soomro, Muhammad Khaskheli, **Muhammad Bachal Bhutto**, Ghiasuddin Shah, Azizullah Memon, Parkash Dewani, 2010. Prevalence and antimicrobial resistance of Salmonella serovars isolated from poultry meat in Hyderabad, Pakistan. *Turk. J. Vet. Anim. Sci.* 34(5): 455-460 2010 International (Thomson Reuters Listed with IF: 0.352)
- 11 Javaid Ali Gadahi, **Bachal Bhutto**, Nasir Ali Gilgity, Nasreen Akhter and Abdullah Arijjo, 2011. Contamination of Larvae of gastrointestinal nematodes on animal grazing pasture in and around Tandojam, Pakistan. *International Journal of Agro Veterinary and Medical Sciences.* 5 (4): 389-394. 2011 International (USA)
- 12 Abdul Sattar Surhio, **Bachal Bhutto**, Javaid Ali Gadahi, Nasreen Akhter and Abdullah Arijjo, 2011. Studies on the Prevalence of hydatid cyst in Caprine and Ovine Slaughtered at Slaughter Houses of Larkana, Pakistan. *Research Opinions in Animal and Veterinary Sciences*, 1 (1): 40-43. 2011 International (India)
- 13 Gadahi J.A., B. Bhutto, A.G. Arijjo and Nasreen Akhter, 2011. Human Hydatidosis in Hyderabad, Sindh, Pakistan. *Advance Tropical Medicine and Public Health International*, 1 (3): 90-94. 2011 International (USA)
- 14 **Bhutto, B.**, A. Arijjo, M.S. Phullan and R. Rind, 2012. Prevalence of fascioliasis in buffaloes under different agro-climatic areas of Sindh Province of Pakistan. *Int. J. Agric. Biol.*, 14: 241–245. 2012 HEC Recognized (Thomson Reuters Listed with IF: 0.758)
- 15 Javaid Ali Gadahi, **Bachal Bhutto**, Nasreen Akhter, Abdullah G Arijjo, Zubair A. Laghari and Mujeeb ur Rehman Memon , 2012. Population Diversity of Mosquito Fauna in and around Tandojam-Pakistan. *International Journal for Agro Veterinary and Medical Sciences.*6: 290-294. 2012 International (USA)
- 16 Attaur Rahman, Mujeeb ur Rehman, Javaid Ali Gadahi, Mansoor Tarique Samo, **Bachal Bhutto**, Qamar Ullah and Mohammad Khaskeli, 2012. Studies on the Evaluation of Moisture and Ash Content in Kamori, Pateri and Tapri Goat Meat. *International Journal for Agro Veterinary and Medical Sciences.*6 (1):62-68 2012 International (USA)
- 17 **Bachal Bhutto**, Javaid Ali Gadahi, Aneela Khuhro , Hafiza Mehvish Rajput, Farah Bhutto, Momina Ashfaq Rajput and Aisha Rehman Talpur, 2012. A Survey on Haemo-Protozoan Parasites in Buffaloes of Landhi Dairy Colony, Karachi-Pakistan. *International Journal for Agro Veterinary and Medical Sciences.*6 (2): 73-76 2012 International (USA)
- 18 Javaid Ali Gadahi, **Bachal Bhutto**, Jam Kashif, Muhammad Shoaib, Muhammad Ehsan, Shahar Bano Javaid and Muhammad Salman, 2013. Tick Infestation in camels in Thar desert of Sindh-Pakistan. *International Journal of Livestock Research.* 3: 114-118. 2013 International India

- 19 Khatri P., D. Das, I. Kaka, M.U. Samo and **B. Bhutto**, 2013. Influence of Environmental Temperature on Postpartum Reproductive Potential of Kundhi Buffaloes. *J. Vet. Adv.*, 3: 139-145. 2013 International Iran (Thomson Reuters Listed)
- 20 Khatri P., S. A. Tunio, I. Kaka, M.U. Samo, **B. Bhutto** and M.R. Memon, 2013. Effect of Exogenous PGF<sub>2</sub> $\alpha$  and Oxytocin on Postpartum Anestrus and Uterine Involution in Kundhi Buffaloes. *J. Anim. Prod. Adv.*, 3: 158-163. 2013 International (Iran)
- 21 Memon A. H, J. A. Gadahi, **B. Bhutto**, A. G. Arijio, N. Akhter and M. R. Memon, 2013. Prevalence of gastrointestinal parasites in *Felis catus*. *Veterinaria*. 1 (1): 21-23. 2013 National
- 22 Javaid Ali Gadahi, **Bachal Bhutto**, Shahar Bano Javaid, Jam Kashif, Tran Duc Hoan, 2014. Diagnostic Approach towards Camel Trypanosomiasis. *International Journal of Livestock Research* . 4(1): 41-45. 2014 International (India)
- 23 Soomro M.H., S. P. Soomro, **M.B. Bhutto**, Z Akbar, M Yaqoob and A. G. Arijio, 2014. Prevalence of ticks in buffaloes in the upper Sindh Pakistan. *Buffalo Bulletin*. 33 (3): 323-327. 2014 International (Thomson Reuters Listed With IF: 0.067)
- 24 Ranjhani A. P. Khatri P. **B. Bhutto**, A. A. Memon, I Shahnaz, M. Sheeraz and I. Rao, 2014. Effect of storage condition on DNA quality of primary sex organs. *J. of Anim. Sci. Advances*. 4 (10): 1059-1067. 2014 International Iran
- 25 Pershotam Khatri and **Bachal Bhutto**, 2014. Expression of androgen receptors at mRNA level in bovine placentomes during 50-150 days of pregnancy. *Pak. J. of Agri. Sci.*, 51 (2): 293-297. 2014 HEC Recognized (Thomson Reuters Listed with IF: 0.597)
- 26 Bhutto A. L., **B. Bhutto**, I. P. Bhatti and A. A. Khooharo (2015) A Perspective on Household Dairy Farming in Thatta District of Sindh Province, Pakistan. *Pak. J. of Agri. Engi and Vet. Sci*. 31: 136-147. 2015 HEC Recognized
- 27 Azizullah Ranjhani, Pershotam Khatri, **Bachal Bhutto**, Akeel Ahmed Memon and Sheeraz Mustafa (2015). Effect of Proteinase k and elution buffer on DNA quality of primary sex organs of kundhi buffalo. Pakistan. *Pak. J. of Agri. Agri. Engi and Vet. Sci*. 31: 148-158. 2015 HEC Recognized
- 28 Qudratullah Kalwar, Akeel Ahmed Memon, **Muhammad Bachal Bhutto**, Hamzo Khan Kunbhar, Amjad Hussain Mirani, Muhammad Anwar and Shakeel Ahmed Wagan (2015) Estrus response and fertility rate in Kundhi buffaloes following estrus 2015 International (Bangladesh)

synchronization in breeding season. J. of Adv. Vet. And Anim. Res., 2 : 362-365.

- 29 Panhwar S. N, A. G. Arijo, **M. B. Bhutto** and R. S. Buriro 2015 International (Nigeria)  
(2015) Conventional and Molecular Detection of Plasmodium Spp. In Humans. Weber Medicine & Clinical Case Reports (ISSN:2449-1624), 1(3) : Article ID wmccr\_140, 259-266.
- 30 Samiullah Memom, Abdullah G. Arijo and **M. Bachal Bhutto** 2015 International (USA)  
(2015). Immune Response of Salivary Gland Vaccine Against Hyalomma anatolicum Ticks in Rabbits. Journal of International Academic Research for Multidisciplinary. 3:194-204.
- 31 Ahmad Sultan Jatoi, Nasreen Akhter, **Bachal Bhutto**, Amjad Hussain Mirani, Izhar Hyder Qazi, Ghulam Mujtaba Mari, Erum Bughio and Rahmat Ullah Sanjrani (2015). Productive potential of imported and local flocks of Japanese quails (*Coturnix coturnix japonica*) during pre-peak period. Cells, Animal and Therapeutics. 1(2):8-12
- 32 Khan A., **B. Bhutto**, M. Shoaib, S. Fahad, A. Ahmad, I. B. Khetran, A. R. Nizamani, A. Zeb, M. Rahman and S. Khan (2016). Prevalence of gastro intestinal cestodes in backyard chickens in district Tando Allahyar, Sindh. J. Anim. Health Prod. 4: 26-30.
- 33 Qudratullah Kalwar, Akeel Ahmed Memon, Hamzo Khan Kunbhar, **Muhammad Bachal Bhutto**, Amjad Hussain Mirani, S. M. H. Andrabi, Asmatullah Kaka and Ali Raza Nizamani (2016). Evaluation of estrus behavior and fertility rate following estrus synchronization in Kundhi buffaloes. Merit Res. J. of Agricultural Sci. and Soil Sci., 4(1): 001-006.
- 34 Ahmed Z., M. Malhi, S. A. Soomro, J. A. Gandahi, A. Arijo, **B. Bhutto** and T. A. Qureshi (2016). Dietary selenium yeast supplementation improved some villi morphological characteristics in duodenum and jejunum of young goats. The J. of Anim. And Plant Sciences, 26 (2): 382-387 (ISSN: 1018-7081)
- 35 M. I. Memon, N. Memon, A. B. Kachiwal, M. R. Memon1 and **B. Bhutto** (2016). Prevalence of theileriosis and its impact on haematological values in naturally infected buffaloes at Hyderabad. Pak. J. Agri., Agril. Engg., Vet. Sci., 32 (1): 85-94.
- 36 Nasreen Akhter, K. B. Mirbahar, **Bachal Bhutto**, Ahmed Sultan and Amjad H. Mirani (2016). Efficacy of valbazen (Albendazole) against gastrointestinal nematodes in goats. Pakistan. Pak. J. of Agri. Agri. Engi and Vet. Sci., 32 (2): 277-283

37	Sana Noor Panhwer <sup>1</sup> , Abdullah Arij <sup>1</sup> , Bachal Bhutto <sup>1</sup> and Rehana Buriro (2016). Conventional and Molecular Detection of Plasmodium in Domestic Poultry Birds. J. of Agri. Sci. and Tech. A, 6: 283-289	2016	International
38	Muhammad Ehsan, Nasreen Akhter, Bachal Bhutto, Abdullah Arij <sup>1</sup> , Javaid Ali Gadahi (2017). Prevalence and genotypic characterization of bovine Echinococcus granulosus isolates by using cytochrome oxidase 1 (Co1) gene in Hyderabad, Pakistan. Veterinary Parasitology 239 (2017) 80–85	2017	HEC Recognized (Thomson Reuters Listed with IF: 2.356)
39	Imran Tarique Samoo*, Pershotam Khatri, Bachal Bhutto, Mansoor Tariq, Iqra Chandio, Munaza Soomro, Saqib Ali and Sheeba Shams (2017). Effect of Temperature and Storage Time on DNA Quality and Quantity from Normal and Diseased Tissues. J. of Basic & Applied Sci., 13 : 203-206	2017	HEC Recognized
40	Shah Fahad, Mohammad Bachal Bhutto, Abrar Ahmad, Amjad Hussain Mirani, Abdullah Arij <sup>1</sup> , Mohammad Qasim (2017). Prevalence and control practices of gastrointestinal helminthes of camel in district tharparkar, sindh Pakistan. International Journal of Biosciences (IJB ). 11(5):1-10.	2017	International (Online)
41	A. S. Jat <sup>1</sup> , N. Akhter, E. Bughio, A. H. Mirani, B. Bhutto (2018). Prevalence of cestodes in selected small scale commercial poultry farms of Hyderabad Sindh. Pakistan Journal of Agriculture Agricultural Engineering And Veterinary Sciences. 34(1): 87-93.	2018	HEC Recognized
	Imam Bakhsh Khetran, Abdullah G. Arij <sup>1</sup> , Muhammad Bachal Bhutto, Javaid Ali Gadahi, Zubair Ahmed Laghari (2018). Prevalence and molecular detection of Babesia bigemina in water buffalo from south eastern region of Pakistan Veterinaria. 68 (1) : 25-30	2018	International (Online)
42	A. MARRI, A. H. SOOMRO, S. A. SHEIKH, M. B. BHUTTO (2019). Food Safety Practices and Population Perception Regarding Street Food Vendors in Hyderabad, Pakistan. Sindh Univ. Res. J.. (Sci. Ser.) 51 (2): 319-326	2019	HEC Recognized
43	Javaid Gadahi, Housh Solangi, Mansoor Tariq, Bachal Bhutto, Abdullah Arij <sup>1</sup> , Toufique Khoso, Zubair Laghari and Jamila Soomro (2019) Haemonchus contortus crude proteins (HcCPs) produced partial protective immunity against the experimental infection Pakistan Journal of Zoology (accepted)	2019	
44	Mehwish Aslam, Abdullah G. Arij <sup>1</sup> , Muhammad Bachal Bhutto, Rehana Shahnawaz Buriro and Zubair Ahmed Laghari (2019) Morphological and molecular characterization of rumen fluke species from sheep in southeastern Pakistan Pakistan Journal of Zoology (Accepted)	2019	

## ABSTRACTS

(Published in proceedings of various conferences)

1. Arijō A.G, A.M. Dharejō and **M.B. Bhutto** (2004) *Giardia lamblia* and *Entamoeba histolytica* in drinking water of Hyderabad. 24<sup>th</sup> Pakistan Congress of zoology(International Congress) held on March 30<sup>th</sup> to April 1<sup>st</sup>, 2004, at Allama Iqbal Open University Islamabad, Pakistan. p. 83.
2. Arijō A.G, J. Gadahi and **M.B. Bhutto**(2004) Human Hydatidosis in Hyderabad. 24<sup>th</sup> Pakistan Congress of zoology(International Congress) held on March 30<sup>th</sup> to April 1<sup>st</sup>, 2004, at Allama Iqbal Open University Islamabad, Pakistan. p. 84
3. Arijō A.G, Z.A. Pathan and **M.B. Bhutto**(2004) Studies on screening and Chemical control of intermediate snail host. 24<sup>th</sup> Pakistan Congress of zoology (International Congress) held on March 30<sup>th</sup> to April 1<sup>st</sup>, 2004, at Allama Iqbal Open University Islamabad, Pakistan. p. 84
4. Arijō A.G, A.M. Dharejō and **M.B. Bhutto**(2004) Dual infection in *Biomphalaria* snail. 24<sup>th</sup> Pakistan Congress of zoology (International Congress) held on March 30<sup>th</sup> to April 1<sup>st</sup>, 2004, at Allama Iqbal Open University Islamabad, Pakistan. p. 84
5. Kachiwal A.B, A.G. Arijō and **B. Bhutto** (2004) Trypanosomiasis in Dogs. National Conference on Agricultural and Animal Sciences, held on November 23-25, 2004, at Sindh Agriculture University Tandojam, Pakistan .p. 28
6. Phulan M.S., S.R. Khosa, A.G. Arijō, W.M. Bhatti, **B. Bhutto** and R. Buriro (2004) Orbatid Mites as Vectors of Cestode Parasites of Animal Grazing on Pastures. National Conference on Agricultural and Animal Sciences, held on November 23-25, 2004, at Sindh Agriculture University Tandojam, Pakistan .p. 51
7. Phulan M.S., M.A. Memon, W.M. Bhatti, R. Rind, **B. Bhutto** and R. Buriro (2004) Trypanosoma Infection in Camels at Badin District of Sindh. National Conference on Agricultural and Animal Sciences, held on November 23-25, 2004, at Sindh Agriculture University Tandojam, Pakistan .p.52
8. Perakash Dewani, **Bachal Bhutto**, R. Rind and A.H. Soomro (2004) In Vitro Antibiotic Susceptibility of Bacterial Isolates of Mastitis in Ewes and Goats. National Conference on Agricultural and Animal Sciences, held on November 23-25, 2004, at Sindh Agriculture University Tandojam, Pakistan .p. 57
9. **Bachal Bhutto**, Ghiasuddin rashdi, M. Sharif Phulan, A. G. Arijō and Perakash Dewani (2005) Field survey on camel trypanosomiasis in Sindh. 2<sup>nd</sup> National Conference on Agriculture and Animal Sciences held on 23-25 November, 2005, at Sindh Agriculture University Tandojam, Pakistan. p. 33.
10. Wagan S., N. Akhter, A. G. Arijō and **B. Bhutto** (2015). Tick infestation in camels in Tharparkar, Pakistan. 2<sup>nd</sup> International Conference on Agriculture, Food and Animal Sciences, held on Feb. 25-26, 2015, at Sindh Agriculture University Tandojam, Pakistan, p. 85

11. Kalwar Q., A.A. Memon, **M. B. Bhutto**, H. K. Kunbhar, M. Anwar, S. A. Wagan and A. H. Mirani (2015). Evaluation of Estrus Incidence and Fertility Rate in Kundhi Buffaloes Following Estrus Synchronization in Breeding Season, Pakistan. 2<sup>nd</sup> International Conference on Agriculture, Food and Animal Sciences, held on Feb. 25-26, 2015, at Sindh Agriculture University Tandojam, Pakistan. p. 95
12. Shahid A. B., M. Malhi, S. A. Soomro, M. G. Shah, **B. Bhutto** and M. A. Memon (2015). Effect of Dietary selenium supplementation on rumen growth and papillae development in goats. held on Feb. 25-26, 2015, at Sindh Agriculture University Tandojam, Pakistan. p. 104
13. Sana Noor Panhwar, A.G. Arijo, **M.B. Bhutto** and R.S Buriro (2016). Conventional and molecular detection of plasmodium spp. In human. 36<sup>th</sup> Pakistan Congress of zoology (International) held on Feb.16 to 18, 2016, at University of Sindh Jamshoro, Pakistan. p. 7
14. Imam Bakhsh Khetran, A.G. Arijo, **M.B. Bhutto** and Mujeeb u Rehmanm (2016). Study on occurrence of babesiosis in buffaloes at Hyderabad Cattle colony: A molecular diagnostic approach. 36<sup>th</sup> Pakistan Congress of zoology (International) held on Feb.16 to 18, 2016, at University of Sindh Jamshoro, Pakistan. p. 8
15. Raz Soomro, A. G. Arijo, **M. B. Bhutto** and ZI Rajput (2016). Testing efficacy of onion bulb extract as repellent against *Musca domestica*. 36<sup>th</sup> Pakistan Congress of zoology (International) held on Feb.16 to 18, 2016, at University of Sindh Jamshoro, Pakistan. p. 9
16. Nooren Mehmood, A. G. Arijo, **M. B. Bhutto** and R. S. Buriro (2016). Biological control of mosquito larvae using edible fish. 36<sup>th</sup> Pakistan Congress of zoology (International) held on Feb.16 to 18, 2016, at University of Sindh Jamshoro, Pakistan. p. 16
17. Haji Khan Kaloi, **Bachal Bhutto**, Abdullah Arijo and Aijaz Ali Khooharo (2016). Survey of ectoparasitic infestation and associated condition in livestock at Tando Allahyar Animal market. 36<sup>th</sup> Pakistan Congress of zoology (International) held on Feb.16 to 18, 2016, at University of Sindh Jamshoro, Pakistan. p.1 9

## ARTICLES

1. Arijo A.G. and **M.B. Bhutto** (2002) Brown dog ticks (*Rhipicephalus sanguineus*), Still a burning problem. Agro Veterinary News (AVN), Karachi, Pakistan. 14(8):19
2. Arijo A.G., **M.B. Bhutto** and Dilpat Rai (2008) Can *Fasciola Hepatica* Infect Human. Agro Veterinary News (AVN), Karachi, Pakistan. 20(3): 8 and 13.

## CONFERENCES/WORKSHOPS ATTENDED:

- Workshop on “Dairy/Beef Production” at Hotel city gate Hyderabad Pakistan (March 1998) US Feed Grains Council.

- 20<sup>th</sup> Pakistan Congress of Zoology (International), University of Sindh, Jamshoro, Pakistan (March 2000).
- 21<sup>st</sup> Pakistan Congress of Zoology (International), University of Agriculture Faisalabad, Pakistan (March 15-17, 2001).
- National Workshop on Disease Surveillance, Reporting and Emergency Preparedness Systems. (April 23-27, 2001) At Hotel Dreamland, Islamabad, Pakistan. PARC, PAEC, IAEA/FAO joint division, Islamabad.
- 22<sup>nd</sup> Pakistan Congress of Zoology (International), University of Azad Kashmir, Muzaffarabad, Pakistan (April 16-18, 2002).
- National Conference on Agricultural and Animal Sciences, Sindh Agriculture University Tandojam, Pakistan (November 23-25, 2004).
- 25<sup>th</sup> Pakistan Congress of Zoology (International), Sindh Agriculture University Tandojam, Pakistan (March 1-3, 2005).
- 2<sup>nd</sup> National Conference on Agricultural and Animal Sciences, Sindh Agriculture University Tandojam, Pakistan (November 23-25, 2005).
- International Conference on Agriculture, Food and Animal Sciences, Sindh Agriculture University Tandojam, Pakistan (May 12-14, 2008).
- 29<sup>th</sup> Pakistan Congress of Zoology (International), University of Sindh, Jamshoro, Pakistan (February 24-26, 2009).
- One day orientation workshop on “Participatory Epidemiology/Participatory Disease Surveillance” jointly organized by International Livestock Research Institute, Nairobi-Kenya and Department of Veterinary Medicine, SAU Tandojam, Pakistan (23-7-2009) at Sindh Agriculture University Tandojam, Pakistan.
- Pak-China Joint Symposium on “ Application of Biotechnology in Plant and Animal Sciences” at Sindh Agriculture University Tandojam, Pakistan (27-28 June, 2012)
- 2<sup>nd</sup> International Conference on Agriculture, Food and Animal Sciences, Sindh Agriculture University Tandojam, Pakistan (Feb. 25-26, 2015).
- 36<sup>th</sup> Pakistan Congress of Zoology (International), University of Sindh, Jamshoro, Pakistan (February 16-18, 2016).
- 3<sup>rd</sup> International Conference on Agriculture, Food and Animal Sciences, Sindh Agriculture University Tandojam, Pakistan (Jan, 10-11, 2017).

## **CERTIFICATES:**

- Certificate of Appreciation for served enthusiastically and performed his liabilities sincerely for organizing 1<sup>st</sup> Annual Meeting of the Sindh Agriculture University Alumni Association, held on 8<sup>th</sup> August 1998, at Sindh Agriculture University Tandojam, Pakistan.
- Certificate in recognition of services for organizing the 10<sup>th</sup> Congress of Soil Science, held from 16<sup>th</sup> – 19<sup>th</sup> March 2004, at Sindh Agriculture University Tandojam, Pakistan.
- Certificate for Appreciation for extraordinary input during 25<sup>th</sup> Pakistan Congress of Zoology (International), held from 1<sup>st</sup> -3<sup>rd</sup> March 2005, at Sindh Agriculture University Tandojam, Pakistan.
- Certificate of Participation and paper presentation at the International Conference on Agriculture, Food and Animal Sciences, held from May 12-14, 2008.
- Certificate for Appreciation for extraordinary input during International Conference on Agriculture, Food and Animal Sciences, held from May 12-14, 2008.
- Certificate for in recognition of services for organizing the 1<sup>st</sup> Orientation Seminar on “Production of Genetically superior Bull of Kundhi Breed of Buffaloes in Sindh Province” At Faculty of Animal Husbandry and Vsterinary Sciences, SAU tandojam, on April 17,2010
- Certificate for Appreciation for exceptional efforts in organizing the Pak-China Joint Symposium on “ Application of Biotectechnology in Plant and Animal Sciences” at Sindh Agriculture University Tandojam, held from June 27-28, 2012.
- Certificate in recognition of services during 8<sup>th</sup> Convocation of SAU Tandojam on 17-01-2015
- Certificate for Appreciation for valuable input during 2<sup>nd</sup> International Conference on Agriculture, Food and Animal Sciences, held on Feb., 25-26, 2015 at Sindh Agriculture University Tandojam, Pakistan.