

**BIO-DATA
OF
PROF. DR. MUHAMMAD AKHTAR**

1. NAME: DR. MUHAMMAD AKHTAR
2. FATHER'S NAME: MUHAMMAD NAZIR (Late)
3. PLACE & DATE OF BIRTH: GUJRANWALA (PAKISTAN)
APRIL 02, 1955
4. NATIONALITY &
NATIONAL I.D. CARD NO: PAKISTANI
35202-2768904-5
5. MARITAL STATUS: MARRIED (3 CHILDREN)
6. PRESENT POSITION: PROFESSOR & CHAIRMAN
DEPARTMENT OF ZOOLOGY,
UNIVERSITY OF THE PUNJAB,
LAHORE, PAKISTAN
7. QUALIFICATIONS: M.Sc.(PUNJAB),
Ph.D. (PUNJAB)
8. FIELD OF SPECIALIZATION: PALAEONTOLOGY, ZOOGEOGRAPHY,
MAMMALIAN AND ENVIRONMENTAL
BIOLOGY
9. FIELD OF RESEARCH
ACTIVITIES: VERTEBRATE PALAEONTOLOGY/
MAMMALOLOGY/ECOLOGY/WILDLIFE
10. ADDRESS FOR
COMMUNICATION: DEPARTMENT OF ZOOLOGY,
UNIVERSITY OF THE PUNJAB,
QUAID-E-AZAM CAMPUS,
LAHORE 54590, PAKISTAN
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11. RESIDENCE: WARDEN, BOYS HOSTEL NO.7,
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LAHORE 54590, PAKISTAN

12. ACADEMIC QUALIFICATIONS

<i>Sr. No.</i>	<i>Institutions attended</i>	<i>Degrees Obtd.</i>	<i>Div.</i>	<i>Subjects studied</i>
1.	Govt. High School, Gujranwala (1968-1972)	Matriculation	I	General Science
2.	Govt. Islamia Degree College, Gujranwala (1972-1974)	Intermediate (Science) (F.Sc.)	II	Biology, Chemistry, Physics
3.	Govt. Degree College, Gujranwala (1975-1977)	Bachelor of Science (B.Sc.)	II	Zoology, Botany, Chemistry
4.	University of the Punjab (1979-1982)	Master of Science (M.Sc.)	I	Zoology
5.	University of the Punjab (1994)	Doctor of Philosophy (Ph.D.)	I	Palaeontology

13. RESEARCH EXPERIENCE

A. Research Projects Sponsored by Pakistan Science Foundation

<i>Name of the Projects</i>	<i>Institution</i>	<i>Duration</i>	<i>My Association</i>
1. Studies on vertebrate fossils of Pakistan [P-PU/Bio (102)]	Deptt. of Zoology University of the Punjab, Lahore, Pakistan.	3 years (Nov. 11, 82 to Nov.11, 85)	Research Officer
2. Studies on the Siwalik Artiodactyla (Suoidea, Anthracotherioidea and Cervoidea) [P-PU/Bio (141)]	Deptt. of Zoology University of the Punjab, Lahore, Pakistan	3 years (Feb.1, 86 - Dec.13, 87) (Dec.14, 87- Feb.1, 89)	Research Officer (Honorary)

B. Research Projects Sponsored by University of the Punjab

<i>Name of the Projects</i>	<i>Institution</i>	<i>Duration</i>	<i>My Association</i>
1. Fossil Bovids of Pakistan	Deptt. of Zoology, University of the Punjab, Lahore, Pakistan	3 years (Jun.30, 94- Jun.30, 97)	Principal Investigator
2. Studies on the Siwalik Artiodactyla (Tragulids and Bovids).	Deptt. of Zoology, University of the Punjab, Lahore,	2 years (Jun.30, 97- Jun.30, 99)	Principal Investigator

3.	Studies on the Siwalik Ruminants	Deptt. of Zoology, University of the Punjab, Lahore	One year (Sept.18, 99- Sept.17, 2000)	Principal Investigator
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14. TEACHING AND RESEARCH EXPERIENCE

Research officer: Department of Zoology, University of the Punjab, from 11.11.1982 to 13.12.1987 under the projects of Pakistan Science Foundation Nos P-PU/Bio (102) and (141).

Lecturer: Department of Zoology, University of the Punjab, Lahore, from December 14, 1987 to September 23, 1989.

Teaching subjects and conducting practicals to M.Sc. classes

	<i>Subjects</i>	<i>Practicals</i>
1.	Genetics	Genetics
2.	Cell Biology	Biochemistry
3.	Developmental Biology	Developmental Biology

Assistant Professor: Department of Zoology, University of the Punjab, Lahore, from September 24, 1989 to 8.1.1998.

Teaching subjects and conducting practical and research to M.Sc. classes

	<i>Subjects</i>	<i>Practicals</i>
1.	Invertebrate Palaeontology	Invertebrate Palaeontology
2.	Vertebrate Palaeontology	Vertebrate Palaeontology
3.	Environmental Biology	Environmental Biology
4.	Mammalogy	Mammalogy

Associate Professor: Department of Zoology, University of the Punjab, Lahore from January 9, 1998 to 20.04.2003.

Teaching subjects and conducting practical and research to Ph.D. classes.

	<i>Subjects</i>	<i>Practicals</i>
1.	Palaeontology	Palaeontology
2.	Elements of Stratigraphy and Structural Geology	Elements of Stratigraphy and Structural Geology.
3.	Mammalogy	Mammalogy
4.	Zoogeography	Zoogeography
5.	Vertebrate Palaeontology	Vertebrate Palaeontology
6.	Invertebrate Palaeontology	Invertebrate Palaeontology

Teaching subjects and conducting practical and research to M.S./M.Phil classes.

<i>Subjects</i>	<i>Practicals</i>
1. Principles of Palaeontology	Palaeontology
2. Zoogeography	Zoogeography
3. Mammalogy	Mammalogy

Teaching subjects and conducting practical and research to M.Sc. classes

<i>Subjects</i>	<i>Practicals</i>
1. Zoogeography	Zoogeography
2. Principles of Palaeontology	Palaeontology
3. Mammalogy	Mammalogy.

Teaching subjects and conducting practical to B.S. classes.

<i>Subjects</i>	<i>Practicals</i>
1. Zoogeography &	Zoogeography & Palaeontology
2. Principles of Palaeontology	Palaeontology

Professor

Department of Zoology, University of the Punjab, Lahore,
from 21.04.2003 to-date.

Teaching subjects and conducting practical and research to Ph.D. classes.

<i>Subjects</i>	<i>Practicals</i>
1. Palaeontology	Palaeontology
2. Elements of Stratigraphy and Structural Geology	Elements of Stratigraphy and Structural Geology.
3. Mammalogy	Mammalogy
4. Zoogeography	Zoogeography
5. Vertebrate Palaeontology	Vertebrate Palaeontology
6. Invertebrate Palaeontology	Invertebrate Palaeontology

Teaching subjects and conducting practical and research to M.S./M.Phil classes.

<i>Subjects</i>	<i>Practicals</i>
1. Palaeontology	Palaeontology
2. Zoogeography	Zoogeography
3. Mammalogy	Mammalogy

Teaching subjects and conducting practical and research to M.Sc. classes

	<i>Subjects</i>	<i>Practicals</i>
1.	Zoogeography	Zoogeography
2.	Principles of Palaeontology	Palaeontology
3.	Mammalogy	Mammalogy

Teaching subjects and conducting practical to B.S. classes.

	<i>Subjects</i>	<i>Practicals</i>
1.	Zoogeography	Zoogeography
2.	Principles of Palaeontology	Palaeontology
3.	Mammalogy	Mammalogy

Part-Time Teaching: Biology to M.S.Ed. (1989-1992 & 1999, 2001), I.E.R.,
University of the Punjab, Lahore, Pakistan.

15. MEMBER OF ADMINISTRATIVE BODIES

1. Chairman, Department of Zoology, University of the Punjab, Lahore, from 17.08.2004 to-date.
2. Warden, Boys Hostel No. 7, University of the Punjab, Lahore, from 29.12.2004 to-date.
3. Member, Purchase Committee, from 1990 to 1995 and 2001 to 2004, Department of Zoology, University of the Punjab, Lahore.
4. Member, Admission Committee, from 1987 to 2004, Department of Zoology, University of the Punjab, Lahore.
5. Member, Board of Studies in Zoology, University of the Punjab, Lahore, from 1998 to 2004.
6. Member, Faculty of Science, University of the Punjab, Lahore, from 1999 to 2003.
7. Member, Punjab University Monitoring Team for B.A./B.Sc. Examination 2001.
8. Member, Affiliation Committee, University of the Punjab Lahore, from 2005 to 2007.
9. Chairman, Honeybee & Fish Farm Research Projects, University of the Punjab, Lahore from 2005 to 2007.
10. Convener, Board of Studies in Zoology, University of the Punjab, Lahore from 17.08.2004 to – date.
11. Member, Board of Studies in Zoology, Bahauddin Zakariya University, Multan from 21.09.2005 to – date.
12. Member, Board of Faculty of Life Sciences, from 2006 to-date.
13. Member, Ad-Hoc Committee for the appointment of Wardens and superintendents of Punjab University Hostels from 2007 to March 2009.
14. Member, Board of Studies in Zoology, Govt. College University, Faisalabad from 2007 to – date.
15. Member, Appellate Committee, University of the Punjab, Lahore from 31.10.2007 to-date.
16. Member, Plagiarism Standing Committee at University of Veterinary and Animal Sciences, Lahore from 2008 to-date.

17. Member, Committee to implement Admission policy – 2008 at University of the Punjab, Lahore.
18. Member, Board of faculty of Pharmacy, University of the Punjab, Lahore from January 2009 to-date.
19. Member, Inspection committee for the checking of furniture purchased for University Hostels, University of the Punjab, Lahore from February 2009 to March 2009.
20. Chairman, Hall Council, University of the Punjab, Lahore from March 16, 2009 September 22, 2010.
21. Member, Review Committee, University of the Punjab, Lahore from May 07, 2009 to-date.
22. Member, Board of Studies in Bioinformatics, Govt. College University, Faisalabad from August 2009 to-date.
23. Registrar, University of the Punjab, Lahore from September 22, 2010 till to-date.
24. Founder Fellow, Pakistan Wildlife Foundation since 2011 till to-date.

16. ADMINISTRATIVE EXPERIENCE

Museum Incharge

Natural History Museum from 1995 to 2004, Department of Zoology, University of the Punjab, Lahore.

Incharge of Technical and Non-Technical Staff, Department of Zoology, University of the Punjab, Lahore, from 1998 to 2003.

17. SPORTS

Winner, Inter-Departmental Championships Session 1994-95, Badminton (Single).

18. TRAINING COURSES

	<i>Place</i>	<i>Type of Training</i>	<i>Years Attended</i>		<i>Certificate/ Diploma obtained</i>
			<i>From</i>	<i>To</i>	
1.	Govt. Degree College, Gujranwala	The National Cadet Corps (N.C.C.)	1975	1977	Certificate
2.	National Academy of Higher Education University Grants Commission, Islamabad, Pakistan	9th Pre-Service University Teachers Training Course	15.10.89	3.1.90	Certificate
3.	Deptt. of Zoology University of the Punjab, Lahore	54th PARC Regional Bee-Keeping Training Course	15.8.95	17.8.95	Certificate

19. LANGUAGES

<i>Languages</i>		<i>Read</i>				<i>Write</i>				<i>Speak</i>			
		<i>Exc.</i>	<i>Good</i>	<i>Fair</i>	<i>Poor</i>	<i>Exc.</i>	<i>Good</i>	<i>Fair</i>	<i>Poor</i>	<i>Exc.</i>	<i>Good</i>	<i>Fair</i>	<i>Poor</i>
1	English	√				√				√			
2	Urdu	√					√				√		
3	Punjabi		√				√			√			
4	Arabic			√					√				√

20. MEMBERSHIP/FELLOWSHIP OF LEARNED SOCIETIES

1. Fellow

- i) Zoological Society of Pakistan (1987 to 2007)
- ii) Pakistan Fisheries Society, Pakistan (1999 to to-date)

2. Life Fellow

- i) Zoological Society of Pakistan (2007).

3. Member

Editorial Committee, Punjab University Journal of Zoology, University of the Punjab, Lahore, Pakistan (1987 to to-date).

21. PARTICIPATION IN EDUCATIONAL RESEARCH SEMINARS AND CONFERENCES

1. Second International Pakistan Congress of Zoology, held at University of Agriculture, Tandojam, in December, 1984.
2. Fifth International Pakistan Congress of Zoology, held at University of Karachi, Karachi in June 1986.
3. Sixth International Pakistan Congress of Zoology, held at University of the Punjab, Lahore, in December, 1985.
4. Eighth International Pakistan Congress of Zoology, held at University of Peshawar, Peshawar, in April, 1988.
5. Ninth International Pakistan Congress of Zoology, held at NARC, Islamabad, in May 21-22, 1989.
6. Tenth International Pakistan Congress of Zoology, held at Khanspur Ayubia, in May, 1990.
7. Fourteenth International Pakistan Congress of Zoology, held at University of Karachi, Karachi, in April, 1994.
8. Two paper presented in Sixteenth International Pakistan Congress of Zoology, held at Quaid-e-Azam University, Islamabad, in April 13-15, 1996.
9. First South Asian Geological Congress, held at Islamabad, Pakistan, in February, 1992.

10. Delivered a lecture in U.G.C. Islamabad "Teachers Training Course" on Sunday, December, 1989.
11. Delivered a lecture in the Department of Zoology, on Monday, December 11, 1995 "Taxonomy and Distribution of the Siwalik *Pachyportax* and *Selenoportax* (Mammalia, Artiodactyla, Bovidae)".
12. Seventeenth Pakistan Congress of Zoology, held at University of Karachi, Karachi, in April 5-7, 1997.
13. Eighteenth Pakistan Congress of Zoology, held at University of the Punjab, Lahore, April 1998.
14. Nineteenth Pakistan Congress of Zoology, held in N.A.R.C., Islamabad, April 19-21, 1999.
15. Attended a lecture in the Institute of Chemistry, University of the Punjab, on Tuesday, January 18, 2000 "The role of Science, Engineering and Technology for Socio-Economic development in Pakistan in the next Millennium", by Prof. M.S.I. Dhani (Scientific Advisor to the President), Pakistan Academy of Sciences, Islamabad.
16. Attended a lecture in the Department of Botany, University of the Punjab, Lahore, on Tuesday, Feb. 1st, 2000 "Use of fish invertebrates and bacterial bioassays for environmental pollution, evolution and toxicity testing", by Dr. Anser Qureshi (Canada).
17. Attended 5th Annual Conference of SAZARC at Sun Fort Hotel, Liberty, Lahore from December 1-7, 2004.
18. Attended a seminar to Higher Education Link: End of Link Dissemination Seminar. Lahore College for Women University, Lahore, on February 25, 2005.
19. Delivered a lecture on "Fossils as indicator of postclimate" in the Department of Zoology, Govt. College, Township, Lahore in 2005.
20. Organized 26th Pakistan Congress of Zoology (International) in the Department of Zoology, University of the Punjab, Lahore from April 4-6, 2006.
21. Attended as chair in an academic session of 26th Pakistan Congress of Zoology (International) in the Department of Zoology, University of the Punjab, Lahore from April 4-6, 2006.
22. Attended a seminar on "Solving problems of freshwater fish farming in Pakistan" conducted by Higher Education Link Commission British Council at the University of Veterinary and Animal Sciences, Lahore, from November 27-28, 2006.
23. Delivered a lecture on "Evolution of Man" in the Department of Zoology, Govt. Science College, Wahdat Road, Lahore in 2006.
24. Attended 1st International Conference on Assessing Quality in Higher Education held at Institute of Quality and Technology Management, University of the Punjab, Lahore on December 11, 2006.
25. Attended a workshop on "Pre-historic Culture of Pakistan" at Department of Archaeology, University of the Punjab, Lahore on June 14, 2006.
26. Attended as Chair in a session in the workshop "Pre-historic Culture of Pakistan" at Department of Archaeology, University of the Punjab, Lahore on June 14, 2006.
27. Attended a workshop organized by Institute of Biochemistry and Biotechnology and Bioengineering Switzerland on "Biochemical Engineering and Fermenter Applications" at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore on August 19, 2006.

28. Attended a workshop on “International Symposium on Nanotechnology of Enzymes” at School of Biological Sciences, University of the Punjab, Lahore on June 14, 2006.
29. Participated as Organizer of 27th Pakistan Congress of Zoology (International) at Bahauddin Zakariya University Multan, on February 27 to March 1, 2007.
30. Attended as Chair in an academic session of 27th Pakistan Congress of Zoology (International) at Bahauddin Zakariya University Multan, on February 27 to March 1, 2007.
31. Actively participated and made an oral presentation in the 27th Pakistan Congress of Zoology (International) at Bahauddin Zakariya University Multan, on February 27 to March 1, 2007.
32. Attended International conference on “Gandhara at the cross roads of civilizations art and architecture” at Department of Archeology, University of the Punjab, Lahore on April 10-12, 2007.
33. Delivered a lecture on “Different stages of evolution of man” at Zoology Department, Govt. College University, Lahore in April 2007.
34. Attended International Conference on Education for Wildlife sustainability held in January 30 to 31, 2008 in University of Veterinary and Animal Sciences, Lahore, Pakistan.
35. Attended International symposium on Glycoproteins in Health and Diseases at School of Biological Sciences, University of the Punjab, Lahore on May 27-29, 2008.
36. Attended “A mini workshop on CEMB Vision 2015” at National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore on August 16, 2008.
37. Organized Honeybee Farming and Management Training Workshop from March 2-6, 2009, in the Department of Zoology, University of the Punjab, Lahore.
38. Actively participated and made an oral presentation in the 30th Pakistan Congress of Zoology (International) at Agriculture University, Faisalabad, from March 2-4, 2010.
39. Organized Honeybee Farming and Management Training Workshop from February 22-26, 2010, in the Department of Zoology, University of the Punjab, Lahore.
40. Organized a seminar on “1st Wildlife Talks Series” on May 04, 2011, in the Department of Zoology, University of the Punjab, Lahore.

22. THESES WRITTEN BY ME

<i>Sr. No.</i>	<i>Title</i>	<i>Year</i>	<i>Degree</i>	<i>Supervisor</i>
1	The dental morphology in <i>Dorcatherium minus</i> .	1982	M.Sc.	Dr. Muhammad Sarwar, Department of Zoology, University of the Punjab, Lahore, Pakistan.
2	Taxonomy and distribution of the Siwalik Bovids.	1994	Ph.D.	Dr. Abu Bakr (late), Department of Zoology, University of the Punjab, Lahore, Pakistan.

23. Ph.D. THESES WRITTEN UNDER MY SUPERVISION

1. Zafar Hameed Bhatti, "Taxonomy, Evolutionary History and Biogeography of the Siwalik Giraffids" (2004).
2. Abdul Ghaffar, "Studies on equids, cervids and carnivora of the Siwaliks" (2005).
3. Zulfiqar Ali, "Ecology, Distribution and Conservation of migratory birds at Uchalli Wetlands Complex, Punjab, Pakistan (2005).
4. Umar Farooq, "Studies of evolutionary trends in dentition of the Siwalik tragulids" (2006).
5. Muhammad Akbar Khan, "Taxonomic studies on fossil remains of Ruminants from Tertiary hills of Hasnot, Pakistan" (2007).
6. Abdul Majid Khan, "Taxonomy and distribution of Rhinoceroses from the Siwalik Hills of Pakistan" (2010).

24. Ph.D. THESES BEING WRITTEN UNDER MY SUPERVISION

1. Mr. Khizar Samiullah, course work completed and comprehensive exam cleared (session 2005). **Thesis has been submitted for evaluation.**
2. Ms. Tasneem Ikram, course work completed and comprehensive exam cleared (session 2005). **Thesis has been submitted for evaluation.**
3. Mr. Mehboob Iqbal, course work completed and comprehensive exam cleared (session 2006). **Thesis has been submitted for evaluation.**
4. Ms. Ghazala Roohi, research work under progress (session 2006).
5. Mr. Waseem Ahmad Khan, research work under progress (session 2006).

25. M.S. THESES WRITTEN UNDER MY SUPERVISION

1. Ms. Nosheen Malik, Lower dentitions of *Chilotherium intermedium* from the Nagri, type locality, Pakistan (session 2006).
2. Ms. Maryam Afghani, *Aceratherium perimens* from the Tertiary Hills of the Dhokpathan formation, Pakistan (session 2006).
3. Ms. Afshan Syed Abbas, *Alicornops sp.* from the Kamli formations of the Siwaliks, Pakistan (session 2006).
4. Ms. Ambreen Zaidi, Studies of Miocene *Deinotherium* and *Listriodon* from the Siwalik Rocks of Pakistan (session 2007-09).
5. Ms. Sadaf Aslam, A study of fossil *Stegodon* remains from the Jari Kas, Azad Jammu and Kashmir, Pakistan (session 2008-10).
6. Ms. Sundas Sultana, A study on extinct species of *Elephas* from the Sar Dhok, Pakistan (session 2008-10).
7. Ms. Ayesha Iqbal, *Elephas planifrons* from Upper Siwaliks of Kundal (Chashma) district Mianwali, Pakistan (session 2009-A-11).

26. M.Sc. (Hons.) THESES WRITTEN UNDER MY SUPERVISION

1. Syed Abdul Majid, 2006. Taxonomic classifications of the Siwalik *Hipparion*, pp.1-96.

27. M.Sc. THESES WRITTEN UNDER MY SUPERVISION

1. Muhammad Amin, 1995. Upper and lower dentition of *Pachyportax* (Lydekker) Pilgrim, pp.1-77.
2. Naveed Akhtar, 1995. Dental Morphology of *Dorcatherium majus* Lydekker, pp.1-64.
3. Syeda Rubbab Naqvi, 1996. Dental Morphology of *Pachyportax latidens* (Lydekker) Pilgrim, pp.1-64.
4. Asia Naseem, 1996. A comparative study of some dentitions of *Selenoportax vexillarius* Pilgrim and *Selenoportax lydekkeri* Pilgrim, pp.1-72.
5. Shahid Iqbal, 1997. A collection of the genus *Dorcabune* from Hasnot, district Jhelum, Punjab, Pakistan, pp.
6. Rizwana Kalsum, 1997. *Dorcatherium minus* a small species of the genus *Dorcatherium* from the Siwaliks of the Punjab, Pakistan, pp.1-58.
7. Raheela Kausar, 1998. A collection of *Pachyportax latidens* (Lydekker) Pilgrim from Hasnot, Jhelum district, the Punjab Province, Pakistan, pp.1-72.
8. Muhammad Maqsood Anwar, 1998. A study of *Tragocerus punjabicus* Pilgrim from Dhok Pathan, Chakwal district, the Punjab Province, Pakistan, pp.1-67.
9. Sarwat Shoukat, 1999. On the dentition of *Gazella lydekkeri* Pilgrim from the Siwaliks, the Punjab Province, Pakistan, pp.1-78.
10. Sadaf Nazar, 1999. Description of some fossil remains of *Selenoportax* and *Dorcatherium* from the Siwaliks, the Punjab Province, Pakistan, pp.1-60.
11. Asma Abbas, 1999. A study of *Tragocerus browni* Pilgrim, from the Siwaliks, the Punjab Province, Pakistan, pp.1-72.
12. Ghulam Murtaza, 2001. Studies on fossil remains of the Siwalik Cervids, pp.1-79.
13. Hina Mustafa, 2001. A collection of *Tragocerus browni* Pilgrim from Dhok Pathan, Pakistan, pp.1-85.
14. Hira Asad, 2001. Description of some cheek-teeth of three-toed horses, pp.1-96.
15. Shehla Ijaz, 2001. *Pachyportax latidens* – an extinct bovid from the Siwaliks of Pakistan, pp.1-65.
16. Tauqeer Munawar Rana, 2001. Study on dentition of *Selenoportax* and *Antelope*, pp.1-75.
17. Umm-e-Amara, 2001. Dental morphology in *Hipparion antelopinum* (Falconer and Cautley), pp.1-88.
18. Riffat Naz Fatima, 2002. Dental morphology of the lower Siwalik Giraffids. Pp. 1-64.
19. Zubedah Khanum, 2002. On the fossil remains of *Gazella lydekkeri* Pilgrim from Siwalik Hills of Pakistan.
20. Erum Gull, 2003. Distribution and phylogenetic studies of the Siwalik Giraffids. Pp. 1-63.
21. Huma Khan, 2003. Systematic of the Neogene Siwalik proboscidea based on dental morphology. Pp. 1-66.
22. Nazia Nawaz, 2003. Ruminants of the Miocene and Pliocene of the Punjab Province, Pakistan. Pp. 1-62.
23. Asma Maqbool, 2004. New fossil tragulids from the Pliocene of Pakistan. Pp. 1-54.
24. Armghana Hanif, 2004. Description of teeth referable to the Middle Siwalik ruminant genus *Selenoportax pilgrim*. Pp. 1-77.
25. Uzma Rafi, 2004. Molar teeth of *Pachyportax latidens* (Lydekker) from Tertiary rocks of Hasnot and Dhok Pathan, Punjab, Pakistan. Pp. 1-69.
26. Saima Irshad, 2005. Pleistocene ungulates from the Tatrot zone, Punjab, Pakistan.

27. Sumaira Iqbal, 2005. On the dental characters of three toed-horses from the Tertiary Hills of Pakistan.
28. Sadaf Aslam, 2005. A study of ruminants from the Siwalik Hills of Pakistan.
29. Shameela Riaz, 2006. Bovids of late Miocene from Hasnot, the Middle Siwaliks, Pakistan.
30. Sidrah Riaz, 2006. Cervids of Hasnot from the Middle Siwaliks, Pakistan.
31. Saira Bano, 2006. Tragulids of late Miocene from Hasnot, Pakistan.
32. Amna Nazir, 2007. *Rhinoceros sivalensis* from the Upper Siwaliks of Tatrot.
33. Amber Chhayan, 2007. *Aceratherium perimense* from the Middle Siwaliks of the Dhok Pathan.
34. Aisha Akhtar, 2007. *Rhinoceros browni* from the Chinji Formation of the Lower Siwaliks
35. Aysha Abdul Majeed, 2007. Rhinoceroses from the Chinji and Dhok Pathan Formations of the Siwaliks.
36. Shumaila Azam, 2008, Studies on new fossil remains of *Rhinoceros* from the type locality Dhokpathan, Punjab, Pakistan.
37. Aisha Khalil, 2009, Studies of dental material of Pliocene horses from the Middle Siwalik rocks, Pakistan.
38. Sania Naeem, 2010. Lower dentition of the Pleistocene elephants from the Siwalik Hills.

28. B.S. THESES WRITTEN UNDER MY SUPERVISION

1. Muhammad Ali, (2004-08). *Chilotherium intermedium* from Nagri Formation, the Middle Siwaliks, Pakistan.
2. Amara Sadaqat, (2004-08). A study of *Chilotherium intermedium* from the Dhok Pathan and Chinji Formations of the Siwalik Hills, Punjab, Pakistan.
3. Atiqa Habib, (2004-08). Dental morphological studies of *Brachypotherium fatehjangense* from lower Siwalik hills, Punjab, Pakistan.
4. Tahira Batool, (2005-09). Dental Morphological studies of Lower Pliocene antelope (*Pachyportax*) from the Siwalik Hills.
5. Mehvish Aslam, (2006-10). Dental morphological studies of *Deinotherim* from early late Miocene of Lava, Pakistan.

29. TECHNICAL REPORTS OF RESEARCH PROJECTS

1. Bakr, A. and Akhtar, M., 1983. "Studies on vertebrate fossils of Pakistan (Mammalia, Carnivora)". First Annual Technical Report of P.S.F. Research Project, No. P-PU/Bio (102), pp.1-58, Pl.I-XXIV.
2. Bakr, A. and Akhtar, M., 1984. "Studies on vertebrate fossils of Pakistan (Mammalia, Equidae)". Second Annual Technical Report of P.S.F. Research Project, No. P-PU/Bio (102), pp.1-35, Pl.I-XXIV.
3. Bakr, A. and Akhtar, M., 1985. "Studies on vertebrate fossils of Pakistan (Mammalia, Carnivora, Equidae, Bovidae)". Final Technical Report of P.S.F. Research Project, No. P-PU/Bio (102), pp.1-154, Pl.I-LXXVIII.
4. Bakr, A. and Akhtar, M., 1986. "Studies on the Siwalik Artiodactyla (Mammalia, Suoidea)". First Annual Technical Report of P.S.F. Project, No. P-PU/Bio (141), pp.1-50, Pl.I-XXIII.

5. Bakr, A. and Akhtar, M., 1987. "Studies on the Siwalik Artiodactyla (Mammalia, Suoidea, Anthracotherioidea)". Second Annual Technical Report of P.S.F. Project, No. P-PU/Bio (141), pp.1-35, Pl.I-XIII.
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30. AWARDS/DISTINCTIONS

1. Awarded “**Quaid-e-Azam Gold Medal**” by Tehreek-e-Istahkam-e-Pakistan Council in 2010.

31. MONOGRAPH PUBLISHED

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List of Publications
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