

BIODATA

PROF. (RETD.) DR. MUHAMMAD SAEED AKHTAR
PROFESSOR OF ZOOLOGY



PERSONAL DETAILS

Nationality

Pakistani

Profession

Teaching and Research

Positions in the Universities

Punjab University

Chairman and Professor (Retd.), Department of Zoology.

University of Education Lahore

Registrar & Professor of Biological Sciences (2005 – May, 2011).

Chairman PhD Committee, (2005 – May, 2011).

Chairman Library Committee (2006 – May, 2011).

Chairman Teacher Incentive Award Committee, (2007 – May, 2011).

Year of Birth

April 17, 1944

Domicile

Jhang

CONTACT INFORMATION: 570 – D Block, Faisal Town, Lahore, Pakistan

Mob. Phone: 0323-7194699

KEY QUALIFICATIONS

Dr. Akhtar has over 42 years teaching and research experience. He has been imparting training to M.Sc. and Ph.D. students in the field of Biodiversity, Zoology/ Entomology and control of termites. **He has produced 9 Ph.D.** and supervised **70 M.phil /M.Sc** theses. Under Biodiversity he has described termite diversity of Pakistan, Bangladesh, Iran and a few new species of Malaysia and Indonesia. As a result he is author of 6 new genera and 49 new species of termites. He has published one book, two monograph, contributed chapters in three books and is author of more than hundred scientific papers published in national and international journals. He is supervising Ph.D. research work of students working on various aspects of wildlife and biodiversity. His work has been extensively quoted in journals and books published in America, India, China, France and CAB International. He is internationally recognized in the field of Termitology.

TEACHING AND RESEARCH EXPERIENCE: Teaching; 31 years, Research; 42 years
Publications: 18 in Foreign 83 in National HEC RECOGNIZED JOURNALS

SCHOLARSHIPS/AWARDS

1964-66	Government Merit Scholarship During M.Sc
1982	Two advance increments by the University of the Punjab for publishing research work of exceptional merit.
1984	Cash award of Rs.7,000/- by the University of the Punjab for publishing research work of exceptional merit.
1990	Cash award of Rs.10,000/- by the Pakistan Science Foundation, for publishing excellent project report in 1990.

Research Work Cited

My published research work has been extensively cited in books and journals published abroad and in Pakistan. Submitted below are some examples from books published abroad.:

Book No. 1. Termites: Evolution, sociality, symbioses, ecology
(Published in 2000), pages 1-455
Edited by
Takuya Abe, David Edward Bignell and Masahiko Higashi
(Kluwer Academic publishers Bostan/London)

My five references have been quoted on page 47 of this book which is the latest publication on termites: Akhtar 1974, 1975, 1979, 1980, 1981.

Book No. 2. Fauna of India and Adjacent countries. Isoptra Termites
Vol. 1
(Published in 1889), pages 1-596
By
M.L. Roonwal and O.B. Chotani
(Records Zoological Survey of India)

My four references have been quoted:
Akhtar 1974a, 1974b, 1975, 1979.

Besides, my published descriptions and figures have been adopted in this book on the following pages:

Fig. 80 (page 146);	Fig. 81 (page 147)
Fig. 101 (page 187);	Fig. 102 (page 189)
Fig. 104 (page 200);	Fig. 105 (page 201)
Fig. 146 (page 267);	Fig. 147 (page 268)
Fig. 159 (page 292);	Fig. 173 (page 316)
Fig. 191 (page 351);	Fig. 192 (page 353)
Fig. 210 (page 391);	Fig. 211 (page 392)

Fig. 283 (page 560);	Fig. 284 (page 561)
Fig. 285 (page 562);	Fig. 290 (page 574)
Fig. 308 (page 605);	

Book No. 3. Fanna of India, Isoptera (Termites)

Vol. II

(Published in 1997), pages 1-794

By

O.B. Chotani

(Records Zoological Survey of India)

My seven references have been cited:

Akhtar, 1974a, 1974b, 1975, 1976, 1977, 1981, 1989

Besides, my published descriptions and figures have been adopted in this book on the following pages:

Fig. 36 (page 81);	Fig. 37 (page 83)
Fig. 49 (page 108);	Fig. 61 (page 132)
Fig. 74 (page 166);	Fig. 86 (page 187)
Fig. 89 (page 191);	Fig. 191 (page 193)
Fig. 97 (page 202);	Fig. 100 (page 206)
Fig. 115 (page 242);	Fig. 116 (page 243)
Fig. 128 (page 262);	Fig. 162 (page 331)
Fig. 164 (page 373);	Fig. 165 (page 339)
Fig. 166 (page 340);	Fig. 188 (page 390)
Fig. 234 (page 488);	Fig. 239 (page 239)
Fig. 248 (page 513);	Fig. 260 (page 531)
Fig. 261 (page 533);	Fig. 262 (page 535)
Fig. 291 (page 595);	Fig. 296 (page 617)
Fig. 329 (page 667);	Fig. 336 (page 680)
Fig. 343 (page 690);	Fig. 344 (page 691)

Book No. 4. Termites and their control in China

(Published in 2002), pages 1-280

By

Li Gui Xiong

My one reference has been quoted in this book:

Akhtar, 1975

Besides, my published description and figure has been adopted in this book on the following pages:

Fig. 52 (page 63);

Book No. 5. Termite Pest of agriculture in Indian region and their control

(Published in), pages 1-84

O.B. Chotani

(Records Zoological Survey of India)

My one reference has been quoted in this book:

Akhtar, 1972

Book No. 6. Revision of Termite Genus Odontotermes Holmgren (Isoptera: Termitidae: Macrotermite from India)

(Published in 1981), pages 1-90

By

M.L. Thakur

(Indian Forest Records)

My two references have been quoted in this book:

Akhtar, 1976, 1977

Besides, my published descriptions and figures have been adopted in this book on the following pages:

Fig. 1 (page);	Fig. 2 (page)
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Book No. 7. Catalogue of Termites (Isoptera) of the oriental region

(Published in 2002), pages 1-76

By

Muzaffar Ahmad

(Pakistan Journal of Zoology)

My fourteen research papers have been cited:

Akhtar, 1972, 1974, 1975, 1979a, 1979b, 1980, 1981, 1985, 1986, 1989, 1992

Book No.8 Insect Pest Management Taxonomy and Identification

(Published in 1994) Pages 665-1015.

By

AA.Hashmi

(Pakistan Agriculture Research Council)

My 12 references have been cited:

Akhtar, 1972,1974a,1974b, 1977,1978,1979,1881,1982,1989. 1980, 1981a, 1981b

REPRESENTATION IN UNIVERSITY BODIES

1. I am familiar with functioning of various university bodies because of being Chairman, Department of Zoology, University of the Punjab, Lahore from 1988 to 2004.
2. I was member of:
 - **Senate**, University of the Punjab, Lahore
 - **Academic Council**, University of the Punjab, Lahore
 - **Member Disciplinary Committee 1998-2002**
3. At University of Hazara, I was member of:
 - **Syndicate** from 2004 to 2005
4. At University of Education, Lahore I am looking after important offices:
 - **Professor of Zoology** May 2010 to date
 - **Acting Registrar** 2007 to May 2010
 - **Director (Quality Enhancement)** August 2010 to date
 - **Director, External Linkages** November 2006 to date
 - **Chairman, Ph.D Committee** 2008 to date
 - **Incharge Ph.D programme** 2007 to date
 - **Secretary, Syndicate** 2007 to date
 - **Secretary, Academic Council** 2007 to date
 - **Secretary, Selection Board** 2007 to date
 - **Chairman, Purchase Committee** 2007 to date
 - **Chairman, Library Committee** 2006 to date
 - **Chairman, Selection Committee (BS-11 to BS-16)** 2007 to date

ADMINISTRATIVE EXPERIENCE

1978-80	Principal Investigator, Research Project Sponsored by Pakistan Science Foundation
1978-81	Principal Investigator, Research Project Sponsored by Pakistan Science Foundation
1991-93	Principal Investigator, Research Project Sponsored by Pakistan Science Foundation
1998-2001	Chairman, Department of Zoology, University of the Punjab, Lahore
2002-2004	Chairman, Department of Zoology, University of the Punjab, Lahore

2004-2005 Chairman, Department of Biochemistry, Hazara University, Mansehra, NWFP

2005-2008 Professor of Biological Sciences, University of Education, 92-D, Model Town, Lahore.

EDUCATIONAL AND PROFESSIONAL STATUS

Ph.D., Punjab University, Lahore, Pakistan, 1973

M.Sc. Punjab University, Lahore, 1966.

Member, Board of Studies in Zoology, University of the Punjab, Lahore (1984-2004).

Convener, Board of Studies in Zoology, University of the Punjab, Lahore (1998-2002)

Member, Disciplinary Committee, Punjab University, Lahore (1994-1998).

Member, National Evaluation Committee, Ministry of Education (1989).

Member, Selection Board, Bahauddin Zakariya University, Multan (1995).

Examiner, Federal Public Service Commission for selection of Civil Services Officers (1979, 1981, 1982).

Examiner in theses (based on research work) for award of M.Sc., M.Phil. and Ph.D. degrees of University of the Punjab, Lahore; University of Agriculture, Faisalabad; University of Jamshoro, Sindh; University of Peshawar; Bahauddin Zakariya University, Multan.

Secretary, National Curriculum Revision Committee (NCRC) for B.Sc., M.Sc. syllabi (1999).

Member, Board of Studies in Zoology, Islamia University, Bahawalpur (1999-2004,05).

Member, Board of Studies in Zoology, Lahore College for Women, Lahore (2002-2004)..

Member, National Review Committee, Ministry of Education, Curriculum Wing (1996);

Paper Setter/Head Examiner in Zoology (PCS), Punjab Public Service Commission combined competitive examinations (1996)

Paper Setter/Examiner in various disciplines of Zoology syllabi (Invertebrate, Zoogeography, Evolution, Taxonomy, Entomology) for University of the Punjab, University of Peshawar, Bahauddin Zakariya University, Multan, University of Azad Jammu & Kashmir, Muzaffarabad;

Convener, Higher Education Commission, Curriculum revision committee for B.S (Honors) and M.S Zoology (2004-2005).

PROFESSIONAL AFFILIATIONS

Member, International Isoptera Society, U.S.A.

Member, Bio-net International

Life Member, Entomological Society of Pakistan.

Fellow, Zoological Society of Pakistan (1973-todate).

Member Executive, Zoological Society of Pakistan (1986-90).

Member, Editorial Committee, Punjab University Journal of Zoology (1986-2004).

Member, Advisory Board, Pakistan Journal of Zoology. (1990-1998)

Member, Executive Council, Academic Staff Association, University of the Punjab, Lahore (1993-94).

Editor, World Pheasant Association, Pakistan News (1995-1999);

Secretary, The Zoological Society of Pakistan (1994-96);
 Secretary, Houbara Conservation Association, Pakistan (1995-1999);
 Treasurer, Zoological Society of Pakistan (1991-94);
 Reviewer science projects, Pakistan Science Foundation;
 Consultant/Expert, Punjab Public Service Commission;
 Consultant/Expert, Federal Public Service Commission;
 Member, Board of Studies in Zoology, Bahauddin Zakariya University, Multan (2000-2001);
 Member, National Curriculum Development Committee (2000-2002);
 Consultant/Expert, Punjab Public Service Commission.
 Consultant/Expert, Federal Public Service Commission.
 Member Syndicate Hazara University, Mansehra, NWFP (2004-2005).
 Member, Affiliation Committee, Hazara University, Mansehra, NWFP (2004-2005).

LANGUAGE ABILITY

English	Excellent
Urdu	Good
Punjabi	Good

PARTICIPATION IN CONFERENCES

Foreign

1982	9 th International Congress IUSSI, University of Colorado, USA
1992	19 th International Congress of Entomology held at Beijing, Chaired one Session also.
2006	XV International Congress of IUSSI, Washington, D.C. July 30 to August 5, 2006

Local

**MORE THAN 29 LOCAL CONFERENCES AND
PRESENTED RESEARCH PAPERS**

NATIONAL/INTERNATIONAL CONGRESSES ATTENDED

- Second Pakistan Congress of Zoology, held at Sind Agriculture University, Tandojam (1981).
 Paper Presented:
 Responses of *Coptotermes heimi* (Wasmann) (Isoptera) to woods, wood extracts and essential oils of timbers, published in: *Materials U. Organismen* (Germany).

- Third Pakistan Congress of Zoology, University of Agriculture, Faisalabad (1982).
Paper presented:
Enteric valve armature of termite species belonging to the genus *Odontotermes* Holmgren (Isoptera), published in *Sociobiology* (America).
- Ninth International Congress UISSI, U.S.A., held at University Colorado (1982).
Paper presented:
Wood destroying termite (Isoptera) of Pakistan, published in *Materials U. Organismen*.
- Fifth Pakistan Congress of Zoology, held at Karachi University, Karachi (1984).
Paper presented:
Survival and feeding responses of *Bifiditermes beesoni* (Gardner) to wood and wood extracts and *Albizia procera* and *Bauhinia variegata*, published in *Pakistan J. Zool.*
- Sixth Pakistan Congress of Zoology, held at Lahore (1985).
Papers presented:
New species of the genus *Hospitalitermes* Holmgren (Isoptera : *Nasutitermitinae*) from Malaya and Java.
- New species from the oriental region.
The new species in the above papers were described from the collection received for identification from Prof. David H. Kistner, Department of Biology, California, Chicago.
- Seventh Pakistan Congress of Zoology, held at University of Baluchistan (1987).
Papers presented:
Swarming activity of termites (Isoptera) in New Campus area during 1986.
- Study of digestive tube and enteric valve armature of termite species belonging to the genera *Speculitermes* and *Indotermes* (Isoptera : *Apicotermitinae*), published in *Sociobiology*.
- Eighth Pakistan Congress of Zoology, held at University of Peshawar (1988).
Paper presented:
Caste polymorphism in field colony of *Odontotermes gurdaspurensis* Holmgren and Holmgren (Termitidae : *Macrotermitinae*). *Proc. 8th Pakistan Congr. Zool.*, pp.181-194.
- Tenth Pakistan Congress of Zoology, held at Khanspur (Murree Hills) (1990).
Papers presented:
Morphometric variations in the termite *Odontotermes obesus* (Rambur) (Isoptera : Termitidae). *Pak. J. Zool. Abstract series No.10*, p.31.
- Effect of some insecticides on survival of *Microcerotermes championi* (Snyder) (Isoptera). *Pak. J. Zool. Abstract series No.10*, p.48.
- Termite populations (Isoptera) and damage in sugarcane fields at Manga Mandi, Lahore, Pakistan. *Pak. J. Zool. Abstract series No.10*, p.53.

- Eleventh Pakistan Congress of Zoology, held at Khanspur (Murree Hills) (1991).
Papers presented:
Studies on maintenance conditions of *Coptotermes heimi* (Wasmann) (Isoptera : Rhinotermitidae). Pak. J. Zool. Abstract series 11, p.44.
- Morphology of molar plate in relation to feeding habits of termites (Isoptera). Pak. J. Zool. Abstract series No.11, p.45.
- Effect of soldier proportions on wood consumption rates of *Coptotermes heimi* (Wasmann). Pak. J. Zool. Abstract series No.11, p.45.
- Bulk Wheat Handling and Storage Conference, held at Pearl Continental Hotel, Lahore (17-19 June, 1991) (1991).
- Nineteenth International Congress of Entomology, Beijing, June 28 to July 4, 1992 (1992).
- Fourteenth Congress of Zoology, held at Karachi (1994).
Paper presented:
Termite population and damage in wheat fields in Bahawalpur Division, Pakistan.
- Seventeenth Congress of Zoology, held at Karachi (1997).
Presented lead paper:
Strategies in termite control.
- Eighteenth Congress of Zoology, held at Lahore (1998).
Paper presented:
Termite population, diversity and damage in cotton fields of Bahawalpur Division.
- Nineteenth Congress of Zoology, held at Islamabad (1999).
Paper presented:
Studies on diversity and abundance of butterflies of Lahore.
- International Symposium Workshop on stem Cells at National Center of Excellence in Molecular Biology from December 8-10, 2003.
- Seminar on Fisheries Development policy on 12.8.2004 at Manawan Fisheries Complex, Lahore.
- Workshop on Higher Education (HEC) Pakistan and British Council Review and way forward-workshop session, March 20, 2006.
- HEC Examination Workshop 2006 at University of Health Sciences
- Twenty sixth Congress of Zoology (International) April 4-6, 2006 at University of the Punjab, Lahore
- Workshop on self assessment of academic programmes May 10-11,2006

- Workshop on Higher Education Commission (HEC) Pakistan and British Council Review and way forward workshop session, March 20, 2006.
- Workshop on self assessment of Academic Programmes May 10-11, 2006.

MONOGRAPHS/BOOKS/PUBLICATIONS

Monographs

- 1975** Taxonomy and zoogeography of the termites (Isoptera) of Bangladesh. Bull. Dept. Zool. Univ. Punjab (N.S.). Article 7, pp.1-200.
- 2002** Catalogue of the Termites (Isoptera) of the Oriental Region. Pakistan J. Zool. , Suppl. Ser.,1-86.

SIGNIFICANT RESEARCH CONTRIBUTIONS

1. Described six new Genera of Termites

- 1975 *Ahmaditermes* Akhtar
- 1981 *Coxocapritermes* Ahmad and Akhtar
- 1981 *Kemneritermes* Ahmad and Akhtar
- 1981 *Malaysiocapritermes* Ahmad and Akhtar
- 1981 *Oriencapritermes* Ahmad and Akhtar
- 1981 *Syncapritermes* Ahmad and Akhtar

2. Described 49 new species of termites from Pakistan, Bangladesh, Malaysia. Indonesia and Iran

EXPERIENCE RECORD

- Research Officer, Commonwealth Institute of Biological Control, Rawalpindi (1966-67).
- Insect Taxonomist, Department of Zoology, Punjab University, Lahore and Pakistan Forest Institute, Peshawar (1968-72).
- Lecturer, Govt. College, Lahore (1973-75).
- Assistant Professor, Department of Zoology, University of the Punjab, Lahore (1975-89).
- Associate Professor, Department of Zoology, University of the Punjab, Lahore (1989-94).
- Professor of Zoology, Department of Zoology, University of the Punjab, Lahore (1994-2004).
- Professor & Chairman, Department of Bio-chemistry, Hazara University, Mansehra, N.W.F.P. (October 2004-2005)
- Professor of Biological Sciences, University of Education, Lahore. November, 2005- to date.

FIELD OF RESEARCH

- i) Diversity of Termites
- ii) Zoogeography of Termites
- iii) Feeding preference of Termites
- iv) Ecology and Control of Termites
- v) Wildlife

LECTURES DELIVERED OUTSIDE

- ◆ Lectures delivered on the origin and classification of Annelids to in-services professors (teaching graduate classes) invited to attend refresher course, held in 1986 at Govt. College, Lahore.
- ◆ Lectures delivered on the classification of Invertebrates to professors invited to attend training course held in 1989 at Education Extension Centre, Lahore.
- ◆ Lectures delivered on the Wildlife of Pakistan to biologists invited to attend training course held in 1990 at the Institute of Molecular Biology and Genetic Engineering, University of the Punjab, Lahore.
- ◆ Lectures delivered on the animal diversity to professors invited to attend training course held in 1990 at Education Extension Centre, Lahore.
- ◆ Lectures delivered on the Animal behaviour to Subject Specialists invited to attend in-service training course in the subject of Biology held in 1991 at Education Extension Centre, Lahore.
- ◆ Lectures delivered on the Mechanism of Evolution to subject specialists invited to attend in-service training course in the subject of Biology held in 1991 at Education Extension Centre, Lahore.
- ◆ Lecture delivered on control of termites by safer insecticide on invitation of Rhone-Poulenc at Karachi (1998).
- ◆ Lecture delivered on control of termites by safer insecticide on invitation of Rhone-Poulenc at Islamabad (1999).
- ◆ Lecture delivered on Termite control on the invitation of LEAF ().

RESEARCH PROJECTS COMPLETED

- ◆ Termites of Pakistan (Identity, distribution and ecological relationships), PL-480 Project No. A17-FS-12 (1968-72).
- ◆ Studies on Wood preferences of Termites. Project No. P-PU/Bio (79) (1978-80).
- ◆ Pest status, feeding preferences and control of termites of Pakistan. P-PU/Bio (136) (1986-89).
- ◆ Termites of Arid zones of Pakistan, P-PU/Bio/172.
- ◆ Biodiversity I. Termites of Northern Areas of Pakistan.

RESEARCH REPORTS

- ◆ Annual Report - Basic studies on parasites of Green Peach Aphid in North W. Pakistan. Pakistan Station, Common. Inst. Biol. Control., pp.1-22 (1966-67).
- ◆ Final Technical Report - Termites of Pakistan (Identity, distribution and ecological relationships) PL-480 Project No. A17-FS-12, Grant No. FG-PA-131, pp.1-70. Figs.1-81 (1968-72).
- ◆ Final Technical Report - Studies on wood preferences of termites. Project No. P-PU/Bio (79), pp.1-65 (1978-80).
- ◆ Final Technical Report - Pest status, feeding preferences and control of termites of Pakistan. Project No. P-PU/Bio (136), pp.1-253 (1989).
- ◆ Final Technical Report - Termites of Arid Zones of Pakistan. Project No. P-PU/Bio/172, pp.1-148 (1993).

PH.D. WORK COMPLETED UNDER MY SUPERVISION

1. Studies on fungus growing termites with hypogeal nesting system. Ph.D. Thesis, University of the Punjab, Lahore (1990-91) (by Abdul Sattar Shahid).
2. Taxonomy and population ecology of termites of Iran and their affinities with termites of Pakistan (by Sultan Ravan) (1996).
3. Morphometric studies on the termite genus *Odontotermes* (by Ms. Farkhanda Manzoor) (2003)
4. Studies on biology of *Microcerotermes championi* Snyder (by Khalid Zamir Rasib) (2005)
5. Formation of prediction models of bollworms complex in cotton crop of Faisalabad district (Ph.D.) (by Muhammad Hamed) (2005)
6. Ecology of houbara bustard (*Chlamydotis undulata amacqueenii*) in Punjab, Baluchistan (Nag Valley) Pakistan and Uzbekistan (Ph.D.) (by Muhammad Sajid Nadeem) (2005)
7. Breeding biology of houbara bustard (*Chlamydotis undulata macqueenii*) in Pakistan and Uzbekistan (by Haroon Rashid) (2005)
8. Studies on the biology of *Heterotermes indicola* (Wasmann) by Ayesha Waqar (2008)
9. Diversity and swarming patterns of termites of District Mianwali (Saima Nasir, 2009).

PH.D. WORK BEING SUPERVISED

S. No.	Title of Thesis	Name of Student	Stage of thesis
1.	Bio-ecology and mortality factors for rice leaf folder <i>Cnaphalocrocis medinalis</i> (GN)	Muhammad Afzal Qamar	Under progress
2.	Integrated pest management of sugarcane stem borer (<i>chilo infuscatellus</i> (Snellen) in Sindh by	Arif H. Makhdam.	Under Progress

4.	Natural enemies of the sugarcane stem-borer (<i>Chilo infuscatellus</i> Snellen) and top-borer (<i>Scirpophaga novella</i> Fabricius) in Jaranwala. Distt. Faizalabad by	Kambiz Aslam Khan	Under Progress
5.	Studies on the role of <i>Trichogramma chilonis</i> as a bio-control agent against lepidopterous pests of cotton sugarcane and tomato by	Rafiq Masih	Under Progress

M.PHIL. THESES COMPLETED

- ♦ Morphometry and taxonomic status of *Odontotermes assamensis*. University of the Punjab, Lahore (Nasir Ahmad, 1988).
- ♦ Morphometric analysis of different taxonomic characters of *Eremotermes paradoxalis* Holmgren. University of the Punjab, Lahore (Abdul Jabbar Khan, 1988).

M.SC. THESES COMPLETED

1. Taxonomy of Imagoes of termites from Pakistan (Shahida Shameem, 1974).
2. Chaetotaxy of the abdomen of imago caste of termites (Nargis Parveen, 1974).
3. Study of Proventriculus and enteric valve of *Macrotermes* (Isoptera : Termitidae) (Hakim Ali, 1979).
4. Study of the cuticular structures of proventriculus and enteric valve of the genera *Hypotermes* Holmgren and *Microtermes* Wasmann (Isoptera : Termitidae) (Muhammad Hussain, 1979).
5. Study of proventriculus and enteric valve of termite species formerly included in sub-genus *Odontotermes* (Isoptera : Termitidae) (Muhammad Ashraf, 1979).
6. Study of the cuticular structures of the alimentary canal of termite species of the genus *Odontotermes* formerly included in sub-genus *Cycloptermes* (Isoptera : Termitidae) (Ghulam Mustafa known Abdul Ghani, 1974).
7. Extractives of *Melia azedarach* and *Populus euamericana* and survival of termites (Azra Yasmin, 1981).
8. Taxonomy of worker caste of termites of Lahore (Shafqat Parveen, 1982).
9. Study of the cuticular structure of enteric valve of some species of termite belonging to genus *Hospitalitermes* Holmgren (Isoptera: Termitidae) (Arif Hamid, 1984).
10. Study of the enteric valve armature of some termite species belonging to the genus *Lacessitermes* (Hafiz Muhammad Ayub Bilal, 1984).
11. Study of the enteric valve armature of some termite species belonging to the genera *Indotermes* and *Speculitermes* (Nassar Iqbal, 1984).
12. Taxonomic studies on some species of genus *Hospitalitermes* Holmgren from Malaya and Java (Muhammad Akbar, 1985).
13. Studies on the population density of *Odontotermes lokanandi* Chatterjee and Thakur in the New Campus area (Abdul Sattar Shahid, 1985).
14. Studies on *Pseudocapritermes* Kemner from Malaysia (Shazima Afzal, 1986).
15. Studies on genus *Pericapritermes* Silvestri from Malaysia (Rubina Tehseen, 1986).
16. Studies on *Coxocapritermes* Ahmad and Akhtar and *Kemneritermes* Ahmad and Akhtar from Malaysia (Maliha Masood, 1986).

17. Studies on genus *Dicuspitermes* Krishna from Malaysia (Shahid Riaz, 1986).
18. Caste Polymorphism in a higher termite *Microcerotermes championi* Snyder (Termitidae: Amitermitinae) (Zakira Parveen, 1987).
19. Caste polymorphism in field colony of *Odontotermes gurdaspurensis* Holmgren & Holmgren (Termitidae: Macrotermitinae) (Samia Rehana, 1987).
20. Caste polymorphism in field colony of *Odontotermes redemanni* (Wasmann) (Amjid Farooq, 1987).
21. Caste polymorphism in field colony of *Coptotermes heimi* (Wasmann) (M. Iqbal Mahmood, 1988).
22. Studies on swarming of termites in 1988 in New Campus, Lahore (Muhammad Munir Shahid, 1988).
23. Comparison of efficacy of some insecticides against *Bifiditermes beesoni* (Gardner) (Ghulam Sarwar, 1988).
24. Variability in size of the worker caste of the termite *Odontotermes obesus* (Rambur) (Nasim Akhtar, 1988).
25. Variability in size of the soldier caste of the termite *Odontotermes obesus* (Rambur) (Rizwana Anwar, 1988).
26. Effect of some insecticides on the survival of *Microcerotermes championi* Snyder (Muhammad Irshad, 1988).
27. Morphology of molar plate in relation to feeding habits of termites, (Alia Nazir, 1989).
28. Effect of soldier proportions on the Wood consumption rate of *Coptotermes heimi* (Wasmann). (Samira Fareedi, 1989).
29. Effect of Matrix, Humidity and Container volume on wood consumption by *Coptotermes heimi* (Wasmann). (Rehana Kausar, 1989).
30. Toxicity of Karate and Arrivo against *Odontotermes obesus* (Rambur). (Miss Uzma Mahmood, 1990).
31. Studies on the effect of Karate, Sumicidin and Arrivo on *Microcerotermes championi* Snyder. (Miss Monazza Bhatti, 1990).
32. Responses of *Coptotermes heimi* (Wasmann) to Karate, Cymbush, Arrivo and Sumicidin (Miss Sofia Abbas, 1990).
33. Efficacy of Karate and Cymbush in protecting wood from attack of *Microcerotermes championi* Snyder. (Mr. Barkat Ali, 1990).
34. Behaviour of Termites to different concentrations of Cypermethrin (Shazia Iram, 1991).
35. Responses of Termites to an organophosphate Insecticide Birlane, (Fazle Hamid, 1991).
36. Toxicity of Thiodan to termites (Azra Khalid, 1991).
37. Efficacy of Tenekil in termite control (Muhammad Mushtaq, 1992).
38. Diagnostic features of the genera *Hodotermes* and *Microhodotermes* (Isoptera: Hodotermitidae) (Khalida Nargis, 1992).
39. Studies on the enteric tube of some species of the Genus *Anacanthotermes* (Isoptera: Hodotermitidae) (Zoobia Ahson, 1992).
40. Some characteristics of the digestive tube of the genera: *Postelectrotermes* Krishna and *Neotermes* Holmgren and their zoogeography (Nayeem Younus Choudhry, 1994).
41. Diagnostic features of enteric tube of the genus *Eremotermes* Silvestri with note on its origin and dispersion (Shazia Asghar, 1995).
42. Studies on the digestive tube of the genus *Amitermes* Silvestri with a note on its distribution (Aisha Iftikhar, 1995).

43. Some characteristic features of the digestive tube of the genus *Coptotermes*, with a note on its origin and dispersion (Azhar Rafiq, 1995).
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