#### **CURRICULUM VITAE**

*Name:* Dr. NABILA ROOHI

Father's Name: Muhammad Yasin Ghaznavi

Date of Birth:December 22, 1966Domicile (Distt./Provin.):Lahore/PunjabNationality:Pakistani

Marital Status:Married (Two children)Present Position:Assistant Professor

Corresponding Address: Physiology Laboratory, Department of Zoology, University

of the Punjab, New Campus, Lahore-54590

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#### Academic Record:

Examination	<b>Board/University</b>	Division	Subjects
Secondary School	Second. & Intermed.	<b>FIRST</b>	Biology, Chemistry,
Certificate	Education Lahore		Physics, Maths.
Higher Secondary	-do-	<b>FIRST</b>	Biology, Chemistry,
School Certificate			Physics
B. Sc.	University of the Punjab	FIRST	Zoology, Chemistry,
			Botany
M. Sc.	-do-	FIRST	Zoology
Ph. D.	-do-		Zoology
			(Health Physiology)

#### Distinctions/Awards:

- Merit Scholarship, University of the Punjab, Lahore, 1989
- Merit Certificate, University of the Punjab, Lahore, 1990
- ➤ Cash award and certificate (2<sup>nd</sup> position) in oral presentation competition at 15th Pakistan Congress of Zoology, by Biofound, at NARC, Islamabad, 1995
- > PEP Foundation Merit Scholarship for young scientific talent, 1997-98
- ➤ Shield (2<sup>nd</sup> position) in oral presentation competition at Regional Conference, Pakistan Physiological Society, at King Edward Medical College, Lahore, 2000
- ➤ APWA Punjab Zeenat Fida Hassan Merit Scholarship for a woman with outstanding academic performance, 2000
- ➤ Granted two advance increments (maximum limit) on obtaining first divisions throughout the academic career, by the Vice Chancellor, University of the Punjab, 2001.
- ➤ Granted six advance increments (maximum limit in an interview) on best performance in the Selection Board for Assistant Professor in Zoology, University of the Punjab, 2005

## Service Record:

Assistant Professor, Department of Zoology, University of the Punjab, Lahore. March 23, 2005 to present (TTS: June 16, 2008 to present)

- ➤ Lecturer, Department of Zoology, University of the Punjab, Lahore. Feb 12, 2001 to March 22, 2005
- Research Scholar, University of the Punjab, Lahore. May 11, 1998 to Feb 11, 2001
- Research Associate, Pakistan Science Foundation Research Project. December 14, 1996 to September 13, 1997
- Fisheries Research Assistant, Punjab Fisheries Department, Lahore. August 1, 1992 to November 4, 1995

## Administrative Experience:

- ➤ Coordinator, Departmental Doctoral Program Committee, Department of Zoology, January 2008 to present
- ➤ Incharge, Central Ph. D. Research Laboratory, Department of Zoology, January 2008 to December 2009.
- ➤ Incharge, Physiology/Endocrinology Research Laboratory, Department of Zoology, July 2004 to present
- Editor, Pakistan Journal of Scientific Research, January 2008 to present
- Associate Editor, Pakistan Journal of Scientific Research, August 2004 to July 2006
- Editor, Pakistan Journal of Science, January 2008 to October 2009
- Associate Editor, Pakistan Journal of Science, October 2009 to present
- ➤ Organizer and Co-Chairperson in academic session of 26<sup>th</sup> Pakistan Congress of Zoology (International) held April 4-6, 2006
- ➤ Operating the budget of a Ph. D. project (Amount: 20 lacs [5 lacs per annum]) bestowed by Higher Education Commission of Pakistan in, "Development of Science and Technology Manpower through indigenous Ph. D. (300 scholarships)", September 2006 to present.
- ➤ Incharge, Zoology Department Library, University of the Punjab, July 2004 to present.
- ➤ Incharge, Preparation and Compilation of Statistical Survey Report of Zoology Department, University of the Punjab, Feb 2001 to present.
- ➤ Incharge, Preparation and Compilation of Annual Progress Report of Zoology Department, University of the Punjab, Feb 2001 to present.
- ➤ Incharge, Preparation and Compilation of Peer Review Report of Zoology Department, University of the Punjab, Feb 2001 to present.
- ➤ Incharge, Annual stock checking of Museum, Store and Library, Zoology Department, for the years 2005-07, 2004 and 2001-03, respectively.

# Courses Designed for Undergraduate and Postgraduate Classes:

- ➤ Designed Theory and Lab. Courses of General and Comparative Physiology, General and Comparative Endocrinology, Physiology of Coordination, General Physiological Mechanisms and Adaptations and Form and Function for B. S. (4 years) and M. Sc. classes.
- Designed Theory and Lab. Courses of Principals and Methods in Physiology, Physiological Systems, Molecular Physiology of Systems and Adaptations, Molecular Physiology of Coordination, Physiology of Excitable cells, Exercise Physiology, Environmental Physiology, Physiology of Health, Fitness and Performance, Endocrine Physiology, Pharmacological Physiology, Reproductive Physiology,

Molecular and Clinical Physiology, Molecular and Clinical Endocrinology, Clinical Reproductive Endocrinology, Diabetology, Thyroidology and Human Biochemistry and Disease for M. S., M. Phil. and Ph. D. classes.

# Teaching to Undergraduate and Postgraduate Classes:

- ➤ Teaching General and Comparative Physiology, General and Comparative Endocrinology, Physiology of Coordination, General Physiological Mechanisms and Adaptations and Form and Function to B. S. (4 years) and M. Sc. classes.
- ➤ Teaching Principles and Methods in Physiology, Physiology of Excitable cells, Exercise Physiology, Environmental Physiology, Physiology of Health, Fitness and Performance, Molecular and Clinical Physiology, Molecular and Clinical Endocrinology, Pharmacological Physiology, Reproductive Physiology, Diabetology, Thyroidology and Human Biochemistry and Disease to M. S., M. Phil. and Ph. D. classes.
- ➤ Conducted Physiology Practicals (1993-2000), M.Sc. Part I & Part II to assist (honorary) Dr. A. M. Cheema, at Department of Zoology, University of the Punjab, Lahore.
- ➤ Part-time Teaching (1997-2000) in capacity to conduct Practicals for Course No. 508IBB, B.Sc. (Hons.) First Semester, and Course No. 514IBB, B. Sc. (Hons.) Second Semester, at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore.

## Research Experience:

- ➤ One year research work during M. Sc., at Department of Zoology, University of the Punjab, Lahore and produced a thesis in the field of physiological biochemistry entitled, "Plasma free amino acids following acute administration of insulin and glibenclamide in male dwarf goat". Total free amino acids were analyzed spectrophotometrically and fractions by Thin layer chromatography. A research paper based on thesis work has been published (1990).
- At Dept. of Zoology, P. U./Punjab Fisheries Dept. in the field of fish and mammalian hematology & biochemistry (1992-95).
- At Dept. of Zoology, University of the Punjab, in the field of Animal Physiology and Biochemistry section, Institute of Chemistry, University of the Punjab, for the development of SDS-PAGE, isoelectric focusing and 2-dimensional electrophoretic techniques for fish and mammalian biological samples (1995-96).
- As Research Associate, successfully completed a research project entitled, "Studies on physiological adaptations during pregnancy and lactation in dwarf goat to improve its production", sponsored by Pakistan Science Foundation. Submitted Final Technical Report in 1997 (1996-97).
- As Research Scholar, Department of Zoology, University of the Punjab, carried out Biomedical research work on various molecular pathological aspects. Various advanced techniques including agarose gel electrophoresis, SDS-PAGE (1D), isoelectric focusing, 2D-PAGE, Western blotting, Immunoblotting, ultrafiltration, gel chromatography etc. were utilized for research purpose. Documentation/Quantification of metabolites by computerized gel analysis,

- contributed further in diagnostic development (1998-2001). Submitted research progress reports, biannually, to Research Committee, University of the Punjab, Lahore. Assisted in the experimental and theses work of M. Sc. research students at Physiology/Endocrinology Lab. of the Department, as well.
- ➤ During Ph.D. carried out research on a synopsis entitled, "Development and clinical application of electrophoretic analyses in diagnosis of the nature of diabetes mellitus", under the supervision of Dr. A. M. Cheema, Department of Zoology and cosupervision of Prof. Dr. M. Waheed Akhtar, Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore and adapted various techniques of SDS-PAGE, isoelectric focusing, two dimensional gel electrophoresis, immunoblotting and computerized gel documentation, etc. (2000-03). Assisted also the supervisors in the research work of M. Sc. research students and in the completion of their theses.

#### Current Research interests/activities:

- As Lecturer (2001-05) and later as Assistant Professor (2005 to present) in Zoology, University of the Punjab, guiding several research students in the field of Biomedical Sciences including Health Physiology, Clinical Endocrinology and Occupational Health. Carrying out research work on Proteomics utilizing electrophoretic and electroblotting techniques, Hormonal/Protein analyses by Radioimmunoassay (RIA) & Enzyme linked immunosorbent assay (ELISA) and electrolytes by Atomic absorption spectrometry.
- > Presently investigating the alterations in circulatory proteins and their fraction components in different pathological states in local population in order to:
- assess specific protein/s linked with particular type of pathology.
- find the possibility of early prediction of the disease in asymptomatic subjects but with strong family history of the disease (in case of inherited disorders like obesity, diabetes, cardiovascular disorders and breast cancer), for timely remedial measures and better management of the disease.
- identify the marker/novel protein/s for future development of screening procedure in general asymptomatic population.
- ➤ Several M. Sc., B. S., M. Sc. (Hons.) and M. S./M. Phil. students have successfully completed their theses and awarded degrees. A number of M. Sc., B. S., M. S./M. Phil. and Ph. D. students are carrying out their research work and are at various stages of the completion of their theses.

#### Research Projects:

#### As Research Associate:

➤ Pakistan Science Foundation Research Project. December 14, 1996 to September 13, 1997.

#### As Principal Investigator:

"Molecular investigations of polycystic ovary syndrome (PCOS) for early diagnosis & studying pathogenesis in local population".
Funded by R & D, University of the Punjab

Total amount: Rs. 100000/-

Duration: One year (May 2006-07)

> "Cardiovascular manifestations in thyroid dysfunction in human population".

Funded by Higher Education Commission of Pakistan to Ms. Rabia Akbar (Ph. D. Student) under Indigenous Ph. D. 5000 Fellowship Program Phase IV.

Total amount: Rs. 13 Lacs

Duration: Five years (August 2007 onwards)

➤ "Family history and its association with prospective risk of different types of cancers".

Funded by Higher Education Commission of Pakistan to Ms. Tamseela Mumtaz (Ph. D. Student) under Indigenous Ph. D. 5000 Fellowship Program Phase IV.

Total amount: Rs. 13 Lacs

Duration: Five years (August 2007 onwards)

- Funded an amount of Rs. 3,60,000/- by DPCC, University of the Punjab, for Ph. D. research students (2007-08).
- ➤ "Prognostic significance of serum protein profile in early diagnosis of thyroid dysfunction in human population".

Funded by R & D, University of the Punjab

Total amount: Rs. 100000/-

Duration: One year (May 2007-08)

➤ "Prognostic significance of serum protein profile in early diagnosis of osteoporosis in human females".

Funded by R & D, University of the Punjab

Total amount: Rs. 100000/-Duration: One year (2008-09).

➤ Identification and prognostic significance of malignancy associated biomarker/s in patients with Hodgkin's and non Hodgkin's Lymphoma.

Funded by R & D, University of the Punjab

Total amount: Rs. 125000/-Duration: One year (2009-10).

As Incharge due to Ex-Pakistan Leave of Principal Investigator:

➤ "Studies on chromium toxicity in *Cyprinus carpio*, Brood stock-Progeny relationship".

Bestowed by Higher Education Commission of Pakistan to Ms. Tayyabah Shaheen (Ph. D. Student) in, "Development of Science and Technology Manpower through indigenous Ph. D. (300 scholarships)".

Total amount: Rs. 20 Lacs (5 lacs per annum)

Being operated by Dr. Nabila Roohi since September 2006 to December 2009.

#### M. Sc. Theses Supervision:

### Completed:

- 1. Electrophoretic analysis of various protein fractions in patients with kidney 2002 failure.
- 2. Relationship of blood groups with different types of cancers in the population 2003 of Punjab Province.

3.	Haematological features of the subjects exposed to volatile solvents used in commercial photocopying.	2004
4.	Heat stress on thyroid and its regulatory hormones pattern in steel foundry workers.	2004
5.	Study of cortisol level and haematological features in professional bus drivers.	2005
6.	Electrophoretically resolved protein profile in patients with breast cancer.	2005
7.	Thyroid and its regulatory hormones patterns in smokers.	2005
8.	Serum prolactin level and subsequent risk of breast cancer in pre and post menopausal women.	2006
9.	Serum estradiol level in prognosis of breast cancer in pre and post menopausal women.	2006
10.	Homocysteine as an independent risk predictor of cognitive decline in old age.	2007
11.	Relationship of vitamin B9 (folic acid) with cognitive decline in old age.	2007
12.	Association of thyroid and its regulatory hormonal levels with senile dementia in elderly people.	2007
13.	Electrophoretically resolved high molecular weight protein profile as a risk predictor of cognitive decline in old human population.	2008
14.	Effect of intense military training on high molecular weight serum protein fractions of military troops.	2009
15.	Effect of chemotherapy on electrolyte imbalance in hematopoietic cancer.	2010
Ongoin	eg:	

# B. S. Theses Supervision

# Completed:

	population based study.	
2.	Hazardous chemical effect on serum protein patterns of leather industry (tannery) workers.	2005
3.	Effect of oral contraceptives on electrophoretically resolved serum protein fractions of healthy females.	2005
4.	Effect of cigarette smoking on electrophoretic serum protein profile of healthy males.	2006
5.	Effect of environmental pollution on serum protein profile of traffic policemen.	2006

1. Causes, pathogenecity and incidence of prostate cancer and its status in local 2004

- 6. Effect of alcohol abuse on serum protein patterns, resolved by SDS-PAGE, 2006 of healthy males.
- 7. Obesity related variations in high molecular weight protein fractions in young healthy individuals.

8.	Low molecular weight protein fractions in young obese subjects.	2008		
9.	Association of electrophoretically resolved low molecular weight protein fractions with senile dementia in elderly people.	2008		
10.	Haematological and serum protein study in steel furnace workers.	2008		
11.	Quantitative profiling of low molecular weight serum protein fractions in pre and post training military troops.	2009		
12.	Effect of chemotherapy on electrolyte imbalance in solid malignancies.	2010		
Ongoir	eg:			
M. Sc.	(Hons.) Theses Supervision:			
Comple	eted:			
1.	Relationship of cortisol, blood pressure and haematological parameters with teaching job stress.	2006		
2.	Hormonal and haematological responses in traffic policemen.	2006		
3.	Effect of intense military training on cortisol, testosterone and	2006		
	haematological parameters.			
M. S.//	A. Phil. Theses Supervision:			
Comple	eted:			
1.	Thyroid and its regulatory hormonal patterns in different phases of pregnancy and post delivery in women.	2008		
2.	Electrophoretically resolved high molecular weight serum protein fractions in pregnant women during different phases of pregnancy and post delivery.	2008		
3.	Low molecular weight serum proteins profile in pregnant and post delivered women resolved by sodium dodecyl sulfate polyacrylamide gel electrophoresis.	2008		
4.	Serum adiponectin responses in pregnant women during different phases of pregnancy and post delivery.	2009		
5.	Serum resistin levels in pregnant and post delivered women.	2009		
6.	Prognostic significance of serum protein profile in early diagnosis of thyroid dysfunction in human population.	2009		
7.	Effects of chemotherapeutic drugs on protein profile in breast cancer	2010		
	patients.			
8.	Chemotherapeutic effects on lipid profile in breast cancer patients.	2010		
σ.	enementapeatic effects on upia prome in oreast eather patients.	2010		
Ongoing:				
1.	Protein biomarkers in breast cancer patients and their response to	2010		
1.	chemotherapy.	_010		

## Ph. D. Theses Supervision:

Research ongoing, Course work completed:

- 1. Molecular investigations of polycystic ovary syndrome (PCOS) for 2005 onwards early diagnosis & studying pathogenesis in local population.
- 2. Cardiovascular manifestations in thyroid dysfunction in human 2005 onwards population.
- 3. Identification of protein biomarker/s in patients with Hodgkin's and Non Hodgkin's Lymphoma. 2006 onwards
- 4. Endocrine and biochemical status in osteoporosis and nutritional 2006 onwards approaches in its amelioration, in local population.
- 5. Efficacy of herbal extracts in amelioration of colorectal cancer in adult male Whistar rats.

# Project Report Supervision:

1.	Modern life style challenges and antioxidants.	2007
2.	Avian influenza and its consequences in human population.	2007
3.	Modern life style in the manifestation of type 2 diabetes mellitus.	2007

# Research Publications:

- 1. CHEEMA, A. M., **ROOHI, N.** AND RUBAB, F., 1991. Plasma free amino acids, their fractions and major lipid fractions separated and quantified on thin layer chromatography following acute administration of insulin and glibenclamide in goat. *Proceedings of Pakistan Congress of Zoology*, **11:** 201-211.
- 2. Δ\*CHEEMA, A. M., MUSHTAQ, R., MAHMOOD, T. AND **ROOHI**, N., 1993 Plasma free amino acids following long acting zinc protamine insulin administration in normal and glucose loaded lactating dwarf goat. *Pakistan Journal of Zoology*, 25: 303-306. **Impact Factor: 0.189**
- 3. Δ\*CHEEMA, A. M., **ROOHI, N.,** IRFAN, S. AND JAVAID, M. Y., 1994. Free amino acids in plasma, liver and muscle of a major carp, *Labeo rohita*, following glucagon administration. *Pakistan Journal of Zoology*, **26:** 209-212. **Impact Factor: 0.189**
- 4. Δ\*ROOHI, N., CHEEMA, A. M., SAEED, R. AND JAVAID, M. Y., 1994. Some studies on the role of glucagon on carbohydrate metabolism of a major carp, *Labeo rohita. Pakistan Journal of Zoology*, **26:** 213-217. **Impact Factor: 0.189**
- 5. Δ\*CHEEMA, A. M., **ROOHI, N.,** MUSHTAQ, R. AND JABEEN, N., 1995. Responses of milk protein and lipid contents following insulin administration in normal and glucose loaded lactating dwarf goats. *Pakistan Journal of Zoology*, **27**: 55-58. **Impact Factor: 0.189**

- 6. CHEEMA, A. M., SULTANA, S. AND **ROOHI**, **N.**, 1995. Major plasma lipids following growth hormone treatments in fed and starved male dwarf goats. *Punjab University Journal of Zoology*, **10**: 25-32.
- 7. \*CHEEMA, A. M. ROOHI, N. AND BUTT, A. R., 1995. Effects of fasting and subsequent refeeding on circulatory proteins and fractions in streptozotocin-induced diabetic male dwarf goats. *Pakistan Journal of Biochemistry & Molecular Biology*, 28: 189-200.
- 8. \*CHEEMA, A. M., ISLAM, A. AND **ROOHI**, N., 1995. Comparison of insulin responses to intravenous glucose challenge in preruminal kids and adults of male dwarf goats. *Pakistan Journal of Biochemistry & Molecular Biology*, **28**: 201-209.
- 9. **ROOHI, N**. TUFAIL, Z., AND AKHTAR, M. W., 1996. Electrophoretically resolved protein patterns of hypergonadotrophins and hyperprolactin states in men. *Acta Scientia*, **6:** 127-138.
- 10. \*ROOHI, N. CHEEMA, A. M. AND CHEEMA, K. J.,1997. Hematological assessment of streptozotocin induced diabetes in male dwarf goat. *Pakistan Journal of Scientific Research*, **49:** 51-55.
- 11. Δ\*CHEEMA, A. M., ISLAM A. AND **ROOHI**, N., 1997. Insulin response and glycemic clearance following intravenous dextrose challenge in differing reproductive phases of dwarf nanny goats. *Pakistan Journal of Zoology*, **29:** 231-235. **Impact Factor: 0.189**
- 12. **ROOHI, N.**, CHEEMA, A. M., RASHID, N. AND AKHTAR, M. W., 1997. Plasma free amino acid fractions in differing phases of reproduction in dwarf nanny goat. *Punjab University Journal of Zoology*, **12**: 35-42.
- 13. \*ROOHI, N., CHEEMA, A. M., QURESHI, S. K. AND AKHTAR, M. W., 1998. Effect of glucagon on plasma metabolites in early lactating dwarf goats. *Pakistan Journal of Biochemistry and Molecular Biology*, 31: 75-81.
- 14. \*ROOHI, N., IFTIKHAR, A., CHEEMA, A. M. AND AKHTAR, M. W., 1998. Serum protein profile in differing phases of reproduction in dwarf goat. *Pakistan Journal of Scientific Research*, **50:** 47-54.
- 15. **ROOHI, N**., CHEEMA, A. M., MUNIR, S. AND AKHTAR, M. W., 1998. Serum protein fractions in hyperthyroid women. *Punjab University Journal of Zoology*, **13**: 1-7.
- 16. \*ROOHI, N., CHEEMA, A. M., LIAQAT, S. AND AKHTAR, M. W., 1999. Effect of cortisone on plasma metabolites in early lactating dwarf goats. *Pakistan Journal of Biochemistry and Molecular Biology*, **32:** 43-47.

- 17. \*ROOHI, N., CHEEMA, A. M., MUSHTAQ, H. AND AKHTAR, M. W., 1999. Serum protein patterns in fed, fasted and insulin treated diabetic male dwarf goats. *Pakistan Journal of Scientific Research*, **51:** 66-70.
- 18. **ROOHI, N.**, CHEEMA, A. M., MUHAMMAD, A. F. AND AKHTAR, M. W., 1999. Electrophoretic analysis of various protein fractions in female subjects with hypothyroid states. *Punjab University Journal of Zoology,* **14:** 25-32.
- 19. \*ROOHI, N., CHEEMA, A. M., AFZAL, M. AND AKHTAR, M. W., 1999. Plasma metabolites in glucose loaded dwarf goats in lactation. *Pakistan Journal of Scientific Research*, **51:**31-35.
- 20. \*CHEEMA, A. M. ROOHI, N. AND REHMAN, M., 2000. Reproductive performance in synchronized cycle and pregnancy in dwarf goat. *Pakistan Journal of Science*, **52**: 56-59.
- 21. **ROOHI, N.,** AKHTAR, N. AND CHEEMA, A. M., 2001. Serum protein fractions of growth hormone treated diabetic male dwarf goats. *Punjab University Journal of Zoology*, **16**: 127-135.
- 22. CHEEMA, A. M., **ROOHI, N.,** NAZIR, S. AND NAYYER, A. Q., 2002. Specific lipid components in insulin dependent diabetes mellitus among different age groups in local female population. *Punjab University Journal of Zoology*, **17:** 61-70.
- 23. **ROOHI, N.,** SIDDIQUE, A. AND CHEEMA, A. M., 2002. Investigation into familial relationship in protein profile in kidney stone disease. *Punjab University Journal of Zoology*, **17:** 93-100.
- 24. \*ROOHI, N., CHEEMA, A. M., ANWAR, U. AND BUTT, S., 2003. Electrophoretic analysis of various protein fractions in patients with kidney failure. *Pakistan Journal of Biochemistry and Molecular Biology*, **36:** 229-232.
- 25. \*CHEEMA, A. M., **ROOHI, N.,** FATIMA, T. AND KHANUM, A., 2004. Adaptation in high and low density lipoproteins in type 2 diabetics of local population by agarose gel electrophoresis. *Pakistan Journal of Science*, **56**: 20-24.
- 26. CHEEMA, A. M., **ROOHI, N.,** MALIK, A. A. AND NAYYER, A. Q., 2004. Serum protein profile in luteal phase of cycling women. *Punjab University Journal of Zoology*, **19:** 33-39.
- 27. **ROOHI, N.,** CHEEMA, A. M., JAMIL, S. AND SIDDIQUI, Z. H., 2004. Electrophoretically resolved serum protein fractions in postmenopausal women. *Punjab University Journal of Zoology*, **19:** 41-50.
- 28. \*CHEEMA, A. M., BASHIR, T., SHARIF, S. AND **ROOHI, N.,** 2005. Status of thyroid hormones during menstrual cycle. *Pakistan Journal of Scientific Research*, **57:** 1-5.

- 29. **ROOHI, N.,** AKBAR, R. AND CHEEMA, A. M., 2005. Heat stress on serum proteins profile in steel foundry workers. *Punjab University Journal of Zoology*, **20**: 87-91.
- 30. **ROOHI, N.,** MUMTAZ, T. AND CHEEMA, A. M., 2005. Pattern of dehydroepiandrosterone in acne affected local young female population. *Punjab University Journal of Zoology,* **20:** 97-102.
- 31. \*ROOHI, N. AND RIAZ, A., 2006. Haematological assessment of photocopy operators exposed to photocopier's emission during commercial photocopying. *Pakistan Journal of Scientific Research*, **58:** 70-73.
- 32. \*ROOHI, N., IRFAN, S. AND BASHIR, T., 2009. Hematological and hormonal responses of traffic policemen. *Pakistan Journal of Science*, **61 (1):** 20-25.
- **\*ROOHI, N.,** ALI, H. AND ASIF, N., 2009. Biomarkers of colorectal cancer. *Pakistan Journal of Science*, **61 (1):** 37-44.
- 34. \*ROOHI, N., ASIF, N. AND ALI, H., 2009. Biomarkers of prostate cancer. *Pakistan Journal of Science*, **61 (2):** 65-72.
- 35. \*ROOHI, N., RUBAB, S., KHALIL, A. AND ILYAS, A., 2009. Quantitative profiling of serum protein fractions in pre and post exercise military troops. *Pakistan Journal of Science*, **61 (3):** 141-147.
- 36. Δ\*ROOHI, N. AND NAZIR, R., 2010. Thyroid and its regulatory hormonal patterns in smokers. *Pakistan Journal of Zoology*, **42 (6):** 759-764. **Impact Factor: 0.189**
- 37. <sup>A\*</sup>ROOHI, N. AND HAYEE, S., 2010. Hormonal and physical responses in professional bus drivers. *Acta Physiologica Hungarica*, In the process of review. Impact Factor: 0.493
- 38. Δ\* SABIR, S. AND **ROOHI**, **N.**, 2010. Association of electrophoretically resolved low molecular weight protein fractions with senile dementia in elderly people. *Pakistan Journal of Zoology*, In the process of review. **Impact Factor: 0.189**
- 39. <sup>A\*</sup>AKRAM, A. M., ALI, R., **ROOHI, N.** AND ILYAS, A., 2010. Quantitative profiling of serum protein fractions in young obese human. *Pakistan Journal of Zoology*, In the process of review. **Impact Factor: 0.189** 
  - <sup>^</sup>\*Impact factor and HEC recognized Journals 07
  - \*HEC recognized Journals 24

## Conferences Attended:

Participated and presented papers:

➤ "Retinol binding protein as a diagnostic and prognostic marker of molecular pathogenesis in type 1 diabetes mellitus". Accepted for presentation in 1st

- International Diabetes and Obesity Forum on 21-23 October 2010, Hilton Athens, Greece.
- ➤ 30<sup>th</sup> Pakistan Congress of Zoology (International) held from March 02-04, 2010 at University of Agriculture, Faisalabad under the auspices of Zoological Society of Pakistan and presented a paper entitled, "Association of electrophoretically resolved low molecular weight protein fractions with senile dementia in elderly people".
- ➤ 30<sup>th</sup> Pakistan Congress of Zoology (International) held from March 02-04, 2010 at University of Agriculture, Faisalabad under the auspices of Zoological Society of Pakistan and presented a paper entitled, "Serum adiponectin responses in pregnant women during different phases of pregnancy and post delivery".
- ➤ 30<sup>th</sup> Pakistan Congress of Zoology (International) held from March 02-04, 2010 at University of Agriculture, Faisalabad under the auspices of Zoological Society of Pakistan and presented a poster entitled, "Quantitative profiling of serum protein fractions in young obese human" (*obtained 2<sup>nd</sup> position* in poster presentation competition).
- ➤ 30<sup>th</sup> Pakistan Congress of Zoology (International) held from March 02-04, 2010 at University of Agriculture, Faisalabad under the auspices of Zoological Society of Pakistan and presented a poster entitled, "Prognostic significance of serum protein profile in early diagnosis of thyroid dysfunction in human population".
- ➤ 30<sup>th</sup> Pakistan Congress of Zoology (International) held from March 02-04, 2010 at University of Agriculture, Faisalabad under the auspices of Zoological Society of Pakistan and presented a poster entitled, "Serum resistin levels in pregnant and post delivered women".
- ➤ 29<sup>th</sup> Pakistan Congress of Zoology (International) held from February 24-26, 2009 at University of Sindh, Jamshoro under the auspices of Zoological Society of Pakistan and presented a paper entitled, "Thyroid and its regulatory hormonal patterns in different phases of pregnancy and post delivery in women".
- ➤ 29<sup>th</sup> Pakistan Congress of Zoology (International) held from February 24-26, 2009 at University of Sindh, Jamshoro under the auspices of Zoological Society of Pakistan and presented a paper entitled, "Low molecular weight serum proteins profile in pregnant and post delivered women resolved by sodium dodecyl sulfate polyacrylamide gel electrophoresis".
- ➤ 29<sup>th</sup> Pakistan Congress of Zoology (International) held from February 24-26, 2009 at University of Sindh, Jamshoro under the auspices of Zoological Society of Pakistan and presented a paper entitled, "Hazardous chemical effects on serum proteins profile in leather industry workers".
- ➤ 29<sup>th</sup> Pakistan Congress of Zoology (International) held from February 24-26, 2009 at University of Sindh, Jamshoro under the auspices of Zoological Society of Pakistan and presented a paper entitled, "Electrophoretically resolved high molecular weight serum protein fractions in pregnant women during different phases of pregnancy and post delivery".
- ➤ 26<sup>th</sup> Pakistan Congress of Zoology (International) held from April 4-6, 2006 at University of the Punjab, Lahore under the auspices of Zoological Society of Pakistan

- and presented a paper entitled, "Haematological and hormonal responses of traffic policemen".
- ➤ 2<sup>nd</sup> International PAEC Oncology and Nuclear Medicine Conference organized by Institute of Nuclear Medicine and Oncology, Lahore held at Holiday Inn, Lahore from April 8-11, 2004 and presented a paper entitled, "Blood groups and their relationship with cancer in the population of Punjab (Pakistan)".
- > 7<sup>th</sup> National Conference on "Trends in Biochemistry and Molecular Biology" organized by Pakistan Society of Biochemistry and Molecular Biology held from April 2-5, 2003 at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore and presented a paper entitled, "Adaptation in high and low density lipoproteins in type 2 diabetics".
- ➤ Regional Conference held under the auspices of Pakistan Physiological Society, at King Edward Medical College, Lahore in 2000 and presented a paper entitled, "A preliminary report on protein fractions resolved by sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) as markers in early diagnosis and elucidation of the nature of diabetes mellitus", and received a *Shield* (2<sup>nd</sup> position) in oral presentation competition.
- ➤ Fourth National Meeting, Pakistan Society of Biochemistry and Molecular Biology held in April, 1997 at NWFP Agricultural University, Peshawar and presented a paper entitled, "Electrophoretically resolved protein patterns in thyrotoxicity in women".
- Fourth National Meeting, Pakistan Society of Biochemistry and Molecular Biology held in April, 1997 at NWFP Agricultural University, Peshawar and presented a paper entitled, "Electrophoretic analysis of serum proteins in human female subjects with gonadotrophins and prolactin endocrinopathies".
- Fourth National Meeting, Pakistan Society of Biochemistry and Molecular Biology held in April, 1997 at NWFP Agricultural University, Peshawar and presented a paper entitled, "Effect of hyperinsulinism, hyperglucagonism and induced hypoinsulinism on protein profile in sera of male dwarf goat".
- ➤ 15<sup>th</sup> Pakistan Congress of Zoology (International) held under the auspices of Zoological Society of Pakistan at National Agricultural Research Council, Islamabad on March, 1995 and presented a paper entitled, "Hematological assessment of streptozotocin induced diabetes in male dwarf goat" and received *Cash award and Certificate* (2<sup>nd</sup> position) in oral presentation competition.

## Participated:

- ➤ Participated in two days Workshop entitled, "Working with Proteins in Post Genomic Era" held January 06-07, 2010 at School of Biological Sciences, University of the Punjab.
- ➤ 27<sup>th</sup> Pakistan Congress of Zoology (International) held April 2007 at Bahauddin Zakaria University, Multan under the auspices of Zoological Society of Pakistan.
- ➤ Participated in a five day Workshop entitled, "Honeybee Farm Management" from February 19-23, 2007 at the Department of Zoology, University of the Punjab.

- ➤ Attended a Seminar on "Biological Biodiversity" by Mr. Gillies Ratia, President, International Federation of Beekeeping, France on May 22, 2007 at the Department of Zoology, University of the Punjab.
- Attended a Seminar entitled, "Mass Spectrometry: Recent Trends and Applications in Proteomics" by Dr. Abdul Rehman Asif, Department of Clinical Chemistry/Central Laboratory of Proteomics, Georg-August University, Gottingen, Germany on April 16, 2007 at the Department of Zoology, University of the Punjab.
- Attended a Seminar entitled, "Origin and Spread of Dengue Fever in Pakistan" by Prof. Dr. Mumtaz Hassan, Vice Chancellor, King Edward Medical University, Lahore on November 21, 2006 at Conference Hall, Undergraduate Block, University of the Punjab.
- ➤ Attended one day Workshop entitled, "Biochemical Engineering and Fermenter Applications" on August 19, 2006 organized by Institute of Biochemistry and Biotechnology, University of the Punjab and Bioengineering, Switzerland.
- ➤ Attended a Seminar entitled, "Skin Diseases" by Prof. Dr. Atif Kazmi, Dermatologist, Fatima Jinnah Medical College/Sir Ganga Ram Hospital, Lahore in September 2005 at Department of Zoology, University of the Punjab.
- ➤ Participated in International SAARC Countries Science Conference from February 20-22, 2005 at University of Veterinary and Animal Sciences, Lahore.
- ➤ Invited and Participated in the Launching Ceremony of ISESCO/UNESCO Chair for Women in Science in Asian Region on December 29, 2004 at Lahore College for Women University, Lahore.
- ➤ Attended International Food and Beverages Conference and Exhibition on October 13, 2004 Organized by Lahore College for Women University (LCWU) and Environ Monitor at LCWU, Lahore.
- Attended a Seminar entitled, "Begomovirus Complexes: Present Knowledge, Future Prospects" by Dr. Rob Briddon on July 31, 2004 at School of Biological Sciences, University of the Punjab, Lahore.
- ➤ Attended a Seminar entitled, "Treatment and Management of Hepatitis B and C" by Prof. Dr. Anwar Ahmed Khan, Chairman and Dean, Sheikh Zayed Postgraduate Medical complex, Lahore on June 8, 2004 at Institute of Nuclear Medicine and Oncology (INMOL), Lahore.
- ➤ Participated in International Conference entitled, "Environmentally Sustainable Development" from March 26-27, 2004 at Kinnaird College for Women, Lahore.
- Attended a Seminar entitled, "Environmental Issues: Wildlife and Conservation" on March 8, 2004 organized as an activity of Higher Education Link between Environmental Science Department of LCWU and Biology Department of Imperial College at Wye (University of London), UK, funded by Department for International Development (DFID) of British Government and managed by British Council, Lahore.
- Attended a one day Workshop (International) on "Environmental Issues" on February 20, 2003 organized by Lahore College for Women University and British Council, Lahore at LCWU, Lahore.

- Attended several Workshops of "Orientation Programme for the orientation of new faculty" organized by University of the Punjab. Obtained a certificate on successful completion of the programme.
- Attended a Seminar entitled, "Various aspects and recent research trends in color vision in human beings" by Prof. M. Akhtar, Director General, School of Biological Sciences in July 2002 at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore.
- Attended a Seminar entitled, "Cardiovascular risk factors and diabetes mellitus" by Prof. Dr. Sheharyar Ahmed Khan, Cardiologist and Director General, Punjab Institute of Cardiology, Lahore in May 2001 at Institute of Chemical Engineering and Technology, University of the Punjab, Lahore.

### Organized:

- ➤ Participated as Organizer in 26<sup>th</sup> Pakistan Congress of Zoology (International) held from April 4-6, 2006 at University of the Punjab, Lahore.
- Acted as Co-Chairperson in an academic session for oral paper presentation in 26<sup>th</sup> Pakistan Congress of Zoology (International) held from April 4-6, 2006 at University of the Punjab, Lahore

## Memberships of Societies:

- ➤ Member, Board of Studies in Zoology, University of the Punjab, Feb 2001-Oct 2007
- Member, Board of Studies in Zoology, Lahore College for Women University, 2003-06
- Member, Pakistan Society for the Advancement of Science, 1995 to present
- Member, Faculty Board of Science, University of the Punjab, Feb 2001-04
- Member, Faculty Board of Life Sciences, University of the Punjab, 2005 to present
- Fellow, Zoological Society of Pakistan, 1992 to present
- Member, Pakistan Society of Biochemistry and Molecular Biology, 1994 to present
- ➤ Harbour Services Fellow of the PEP Foundation, 1997 to present
- Member, All Pakistan Women Association (APWA), 2000 to present
- ➤ Member, Curriculum Review Committee, Department of Zoology, Feb 2001 to present
- Member, Admission Committee, Department of Zoology, Feb 2001 to present
- Member, Examination Committee, Department of Zoology, Feb 2001 to present
- Member, Purchase Committee, Department of Zoology, Feb 2001 to present
- ➤ Member, Maintenance Committee, Department of Zoology, 2004 to present