

Abdul Matin

BSc (Hons), Dip BA (UK), MPhil, PhD (UK), PDPHil (UK), PGCHE (UK)

Finalist British Alumni Professional Achievement Award (2016)
Wessex Medical Research Fellow, State of Jersey, United Kingdom (2008-09)
Receipt of "The Best Researcher in the UK Specialty Award" (MRS-2007)
Birkbeck Fellow, United Kingdom (2005-08)



Current Position:

Dr. Abdul Matin, PhD, PDPHil, PGCHE

Professor (Associate)

Department of Medical Laboratory Sciences

College of Applied Medical Sciences

Majmaah University, Kingdom of Saudi Arabia

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Professional Preparation:

2008-09 Postdoctoral Research Fellow (Immunopharmacology) School of Medicine, Southampton University Hospital, Southampton, United Kingdom (UK)

2005-08 PhD (Medical Microbiology / Parasitology), School of Biological and Chemical Sciences, Birkbeck University of London, England, UK

2002-03 Diploma in Business Administration, London College of Science and Technology, UK

1998-00 MPhil (Genetics & Cell Biology), Department of Biological Sciences, Quaid-i-Azam University, Islamabad, Pakistan

1993-97 BSc (Hons) (Entomology and Zoology), University of Arid Agriculture, Rawalpindi, Pakistan

Professional Experience:

2016-now *Professor (Associate)*, Department of Medical Laboratory Sciences, College of Applied Medical Sciences Majmaah University, Kingdom of Saudi Arabia

2012-now *Associate Professor*, Department of Medical Lab Technology, University of Haripur, Khyber Pakhtunkhwa

2009-13 *Senior Scientific Officer*, Institute of Biomedical and Genetic Engineering (IB&GE) Islamabad

2008-09 *Postdoctoral Research Fellow* in Biomedicine Research, School of Medicine, Southampton University

2008-09 *Assistant Professor*, Health Biotechnology Program, COMSATS University, Pakistan

2005-08 *Part-time Lecturer*, School of Biological and Chemical Sciences, Birkbeck, University of London, UK

2003-08 *Research Assistant* with Agency for Research and Community Development (AGRONI), London, UK.

2002-03 *Research Assistant* with National Opinion Pose (NOP), London, UK

2000-01 *Lecturer* in Biology, Allama Iqbal Open University, Islamabad Pakistan

1999-00 *Biodiversity Trainee* in International Union for Conservation of Nature (IUCN), Islamabad

1998-00 *Research Assistant* at Genetics & Cell Biology Laboratory, Quaid-i-Azam University

1998-00 *Consultant* in Water and Sanitation Agency (WASA) Rawalpindi, Pakistan

1998-99 *Research Trainee* in Plant Virology Laboratory, Crops Diseases Research Institute (National Agriculture Research Center, Islamabad, Pakistan)

Adjunct Faculty:

2010-now *Adjunct Faculty*, Department of Biotechnology, International Islamic University, Islamabad

Leadership held:

2014-now Convener of Self Assessment Report (SAR) Committee for MLT department, University of Haripur

2014-now Convener of Board of Studies for MLT department, University of Haripur

2014-now Focal person from University of Haripur for collaboration with UK Universities and Research Institutions.

2014-now Focal person from University of Haripur for collaboration with Malaysian Universities

2013-now Head of Department, Department of Medical Lab Technology, University of Haripur, KPK

2013-now Head of Department, Department of Public Health, University of Haripur, KPK (additional charge)

2013-now Convener of Inspection Team for affiliation colleges to University of Haripur

2011-13 Biosafety Coordinator at IB&GE, Islamabad.
2009-13 Group Leader: "Immunology & Medical Microbiology Laboratory" at IBGE.
2009 Convenor for Reception and Facilitation Committee for BICMAPE-2009 and EsDev-2009.
2005-09 Birkbeck Ambassador to Pakistan
2005-08 Manager, Microbiology laboratory, Birkbeck, University of London
2005-08 Birkbeck Postgraduate Student Representative
2005-08 Organizer, Postgraduate Journal Club (PJC)
2005-08 Incharge Invigilation Committee, Birkbeck, University of London
2006-08 Manager, Birkbeck Insectory, University of London
2006-07 President, Overseas Students Society, Birkbeck, University of London

Other Assignments

2018-now Course Coordinator for Principles of Anatomy at Majmaah University, KSA
2017-now Course Coordinator for Medical Microbiology at Majmaah University, KSA
2017-now Member of MSc Curriculum Review Committee at Majmaah University, KSA
2016-now Member of BSc Curriculum Review Committee at Majmaah University, KSA
2016-now Member of Exams Review Committee at College of Applied Medical Sciences, Majmaah University, KSA
2015-now Member of Advanced Studies & Research Board, University of Haripur
2015-16 Inspector for BA/BSc Annual Examination
2014-now Member of Scholarships Management Committee, University of Haripur
2014-now Member of Statutes Framing Committee, University of Haripur
2013-now Member of Re-checking Committee for BA/BSc/BCom programs
2013-now Member of Evaluation Committee for Faculty Hiring for MLT, Microbiology and allied subjects, UoH
2011-13 Research Evaluation and Monitoring Board (REMB) Coordinator at IB&GE, Islamabad
2006-08 Member, School Health and Safety Committee, Birkbeck, University of London
2005-08 Member, Birkbeck College Research School Committee (CRS), University of London

Consultancies:

2012-13 *Consultant*, University of Haripur, Khyber Pakhtunkhwa for MLT department establishment

Stem cells and Biosafety facility establishment at

- COMSATS Institute of Information Technology, Abbottabad
- Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad

Professional Training / Short Courses:

2014 Detecting Bioterror; Public Health and Law Enforcement Join Forces to Fight Crime, School of Public Health, University at Albany, State University of New York, USA (6 contacted hours)
2009 Symposium on medical writing (Women medical college Abbottabad)
2009 Supervision Skills (Birkbeck, University of London)
2009 Academic publishing in the 21st century: Markets & Technologies, Survival & Change
2009 Calcium (Ca⁺⁺) Flex Station Training (Analytical Technologies, Southampton)
2008 Working safely with Tritium ³H, ¹²⁵I, Cr⁵¹ (School of Medicine, Southampton University, UK)
2008 HPLC Training course [Dionex (UK) Ltd]
2007 Working safely with radioactive compounds S³⁵, P³², Ca⁴⁵, ¹⁴C (Birkbeck, University of London)
2006 Grant Writing Course (Birkbeck, University of London)
2006 Fundamentals of Teaching Course (School of Continuing Education, Birkbeck, Univ. of London)
2006 RADA Power Point Presentation Skills Course (Royal Academy of Dramatic Art, London)
2005 Writing Skills Course: how to write scientific papers, a thesis or a talk (Birkbeck)
2004 Foundation Food Hygiene Course (Manchester Conference Centre, United Kingdom)
2004 Health and Safety Course (Manchester Conference Centre, United Kingdom)
2001 Research Surveys and Questionnaire Development, Department of Psychology, QAU.
1998 PC course, Department of Computer Sciences, Quaid-i-Azam University, Islamabad
1997 Bee-Keeping and Management, National Agriculture Research Centre Islamabad, Pakistan

Awards, Honors and Distinctions:

2008-09 Postdoctoral Fellowship, School of Medicine, Southampton University, Southampton / Wessex Medical Research, Funding research to fight disease, State of Jersey, UK
2005-08 PhD Studentship, School of Biological and Chemical Sciences, Birkbeck College, University of London, UK

- 1998-00 MPhil Merit Scholarship, Department of Biological Sciences, Quaid-i-Azam University, Islamabad/ University Grants Commission, Islamabad, Pakistan
- 1993-97 BSc (Hons) Merit Scholarship, Government of North West Frontier Province (NWFP), Peshawar, Pakistan
- 1985-86 Secondary School Merit Scholarship, Government of NWFP, Peshawar, Pakistan.

Others:

2018

- Recognized as **Outstanding Reviewer** for *Journal of Ethnopharmacology*, Elsevier, Amsterdam, Netherlands in recognition of the contribution made to the quality of the journal.
- Member of Organizer committee of Traditional Medicine and Acupuncture, Rome, Italy
- Member of Organizer committee of International Colloquium on Biotechnology and Genetic Engineering, Dubai, UAE
- Recognized reviewer for *Acta Tropica*, Elsevier, Amsterdam, The Netherlands
- Recognized reviewer for *Ecotoxicology and Environmental Safety*, Elsevier, Amsterdam, The Netherlands

2017

- Member of Organizer committee of Herbal and Alternative medicine, UK

2016

- Finalist for Professional Achievement Award of British Council Alumni
- Member of Organizer committee of The International Conference on Environmental Pollution and Public Health (EPPH-2016), Suzhou, China
- Member of the Innovation Advisory Board for SCIEX

2015

- Recognized as **Outstanding Reviewer** for *Journal of Ethnopharmacology*, Elsevier, Amsterdam, Netherlands. This status is due to be within the top 10th percentile of reviewers for the Journal, in terms of the number of manuscript reviews completed in the last two years.
- Selected as a **Editorial Review Board Member** and **International Scientific Committee Member** on Medical and Health Sciences by World Academy of Science, Engineering and Technology
- Selected as a **Member of PMRC Expert Panels** by Pakistan Medical & Research Council
- Nominated as Member of Expert Committee for Evaluation/Recognition of Health Science Journals

2014

- Recognized as **Certified Reviewer** for *Journal of Ethnopharmacology*, Elsevier, Amsterdam, Netherlands.
- Honored with **Session Chair** duties at ICN 05-06 July 2014, **Singapore**
- **Travel Grant** from Higher Education Commission, Pakistan for OMICS 26-27 August 2014, Beijing, **China**
- **Travel Grant** from Pakistan Science Foundation for ICN 05-06 July 2014, **Singapore**
- **Research Productive Award** by Pakistan Council for Science and Technology for 2013-14 in category C

2013

- **Travel Grant** from Higher Education Commission, Pakistan for NanoMed 26-28 Feb 2014, London, **UK**.

2012

- **Bursary Award** from International Congress on Infectious Diseases 13-16 June 2012 Bangkok, **Thailand**.
- **Travel Award** from International Society of Parasitology for 29 July- 03 August 2012 in Oslo, **Norway**.

2011

- **Travel Award** from International Union of Microbiological Societies (IUMS) for "The Ultimate World of Microbes" 6-16 September 2011 in Sapporo **Japan**.

2010

- **Bursary Award** from Massachusetts General Hospital Singapore for "Exciting Biologies: Biology of Recognition, 7-10th October 2010 in **Singapore**.

2009

- **Young Scientist Travel Grant** by Society for General Microbiology for 13th International Meeting on the Biology and Pathogenicity of Free-living Amoebae; 17-21 May 2009, Puerto de la Cruz, Tenerife, **Spain**.

2008

- Honored with **Best Teacher Award** by Birkbeck, University of London, UK

2007

- **The Best Researcher in the UK Specialty Award & prize** by Medical Research Society (MRS) for "*Balamuthia mandrillaris* transmigration of the blood-brain barrier", at Spring Meeting for Clinical Scientists in Training 2007, Royal College of Physicians, London, UK. I was the first Asian ever who was honored with MRS Award since its inception.
- **Travel Award** from Birkbeck College Research School) for 11th International Meeting on the Biology and Pathogenicity of Free living Amoebae, 27-30 August 2007, **Japan**
- Merit Award from Roger & Sarah Bancroft Clark Charitable Trust, UK
- Merit Award from PCAC/Guild of Aid for Gentlepeople, UK
- Merit Award from Sir Richard Stapley educational trust, UK
- Merit Award from Headley Pitt Charitable Trust, UK
- Merit Award from Sidney Perry Foundation, UK
- Merit Award from the Leche Trust, UK

2006

- Merit Award from Sir Richard Stapley educational trust, UK
- Merit Award from Roger & Sarah Bancroft Clark Charitable Trust, UK
- **Best poster Award** in annual poster competition at **Birkbeck, University of London**, entitled "Effects of human serum on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells"
- **Travel Award** by College Research School, Birkbeck University of London for ICOPA-XI 11th International Congress of Parasitology SECC, Glasgow, **Scotland**

2005

- **Best poster Award** in annual poster competition at Birkbeck, University of London, entitled "Evaluation of prokaryotic and eukaryotic cells as food source for *Balamuthia mandrillaris*"
- **Travel Award** by Society for General Microbiology (SGM) for 157th SGM Conference, Keele University, England, for "*Balamuthia mandrillaris* exhibit metalloprotease activities".

2002

- Honored with **J-1 Exchange visitor visa** (N#: P-1-1541-0012650) from 17-25 August 2002 to visit Dr. Jeffery D. Wells, Department of Justice Sciences (School of Social and Behavior Sciences) at University of Alabama at Birmingham, United States. Unfortunately, could not avail this opportunity as I have already traveled to UK for PhD studies.

External Activities:

2011-To date

- Convener of Pakistan Medical Research Council's (PMRC) Expert Panel
- Member of PMRC's Technical Advisory Committee (TAC)

2009-To date

- Approved PhD Supervisor at Higher Education Commission (HEC)

Event Organizer

2018

- **International Conference Organizer**
World congress on Rare Diseases, Theme: Fighting rare diseases with innovative techniques, December 05-07, **2018** Dubai, UAE
<https://rarediseases.infectiousconferences.com/organizing-committee.php>
- **International Conference Organizer**

8th International Conference on Traditional Medicine and Acupuncture

July 23-24, **2018**, Rome, Italy

For detail please visit: <http://traditionalmedicine.alliedacademies.com/organizing-committee>

- **International Conference Organizer**

International Colloquium on Biotechnology and Genetic Engineering

November, 12-13, **2018**, Dubai, UAE

For detail please visit: <https://tychonixinternational.org/biotech/committee>

- **International Conference Organizer**

Annual conference on Bacterial, Viral and Infectious Diseases

Theme: Cutting-Edge Technologies and Novel Research in the Prevention and Treatment of Infectious Diseases

December 05-06, **2018** Dubai, UAE,

For detail please visit: <https://bacterialdiseases.infectiousconferences.com/organizing-committee.php>

2016

- **International Conference Organizer**

The International Conference on Environmental Pollution and Public Health (EPPH-2016)

April 13-16, **2016**, Suzhou, China

For detail please visit: <http://www.engii.org/epph2016/OrganizingCommittee.aspx>

2014

- **Session Chair**

Session Chair duties at International Conference on Nanotechnology

July 5-6, **2014**, Singapore

Organized by World Academy of Science, Engineering and Technology

2012

- **Seminar Organizer**

Dr. Fazli Rabbi, Principal Scientist at Health Biotechnology Division, NIBGE Faisalabad, Pakistan was invited for a talk on September 18, **2012** organized at Institute of Biomedical & Genetic Engineering / KRL, Islamabad.

- **Seminar Organizer**

Dr. Irfan Ahmad, Post Doctoral Fellow at Department of Microbiology Tumour and Cell biology Karolinska Institute, Stockholm Sweden was invited for a talk on "Role of cyclic di-GMP signalling in bacterial virulence: current understanding and future strategy for chronic and recurrent infections" held on January 01, **2012** organized at Institute of Biomedical & Genetic Engineering, Islamabad.

2009

- **Seminar Organizer**

Mr. Irfanullah Tunio, Assistant Director at Earthquake Reconstruction & Rehabilitation Authority (ERRA), Pakistan was invited for a talk on "Environmental Disasters and Rehabilitation Strategies" held on October 12, **2009** organized at Department of Environmental Sciences at COMSATS, Abbottabad, Pakistan

2005-07

- **Postgraduate Journal Club (PJC)**

Organizer of PJC at Birkbeck College, University of London, UK

May **2005** to November **2007** (once a month)

Memorandum of Understanding:

Facilitator and Organizer of MoU between

- National Health Services (NHS), UK and Institute of Biomedical and Genetic Engineering, Islamabad
- University of Malaya, Malaysia and University of Haripur, Pakistan

Memberships and Social contribution:

Present:

- European Society of Clinical Microbiology and Infectious Diseases (ESCMID)
- ISESCO Center for Promotion of Scientific Research (ICPSR)
- World Academy of Science, Engineering and Technology
- European Foundation for Clinical Nanomedicine
- International Society for Infectious Diseases
- International Federation of Infection Control
- Infectious Disease Research Network (UK)
- International Society of Protozoologists
- The World Federation of Parasitologists
- British Alumni Association of Pakistan
- Medical Research Society of Pakistan
- European Proteomics Association
- Pakistan Society for Microbiology
- Biosafety Association of Pakistan

Past:

- 2006-08 British Section of the Society of Protozoology (UK)
2005-08 Society for General Microbiology (UK)
2005-08 London Vascular Biology Forums (UK)
2004-05 Member, St. John Ambulance, United Kingdom
2004-05 Member, British Red Cross, United Kingdom
2002-05 European Association of Forensic Entomology (UK)

Editorial Work:

Guest Editor for Scientific & Academic Publishing (SAP), USA
Guest Editor for BioMed Research international

Editorial Board Member:

1. The Open Microbiology Journal (Bentham open)
<https://benthamopen.com/TOMICROJ/editorial-board/>
2. Cient Periodique (CPQ Medicine)
<https://www.cientperiodique.com/journal/editorboard/medicine>
3. Journal of Pharmaceutical Research and Drug Design
<http://clerisyonlinepublishers.org/journals/journal-of-pharmaceutical-research-and-drug-design/editorial-board.php>
4. Journal of Ophthalmology and Clinical Research
5. Journal of Ocular Diseases and Therapeutics
6. World Academy of Science, Engineering and Technology

Reviewer For:

Journals

1. Environmental Microbiology (Impact Factor: **5.756**)
2. Protist (Elsevier) (Impact Factor: **4.14**)
3. Tumor Biology (Impact Factor: **3.611**)
4. Parasites & Vectors (Bio Med Central) (Impact Factor: **3.25**)
5. Journal of Cancer Research and Experimental Oncology (Impact Factor: **3.081**)
6. Journal of Ethnopharmacology (Elsevier) (Impact Factor: **2.755**)
7. Acta Tropica (Elsevier) (Impact Factor: **2.787**)
8. Environmental Microbiology Reports (Impact Factor: **2.708**)
9. Journal of Applied Microbiology (Blackwell Publishing, UK) (Impact Factor: **2.196**)
10. Journal of Nanoparticles Research (Impact Factor: **2.175**)
11. Molecules (Impact Factor: **2.416**)
12. Environmental Sciences, Processes and Impact (Impact Factor: **2.171**)
13. International Journal of Environmental Research and Public Health (Impact Factor: **1.998**)
14. Letters in Applied Microbiology (Blackwell Publishing, UK) (Impact Factor: **1.629**)

15. World Journal of Microbiology and Biotechnology (Impact Factor: **1.262**)
16. Pakistan Journal of Pharmaceutical Sciences (Impact Factor: **1.13**)
17. Revista do Instituto de Medicina Tropical de São Paulo
18. Journal of Nanoscience, Nanomedicine & Nanobiology
19. Journal of Science, Technology and Development
20. Journal of Ophthalmology and Clinical Research
21. African Journal of Pharmacy and Pharmacology
22. Journal of Ophthalmology & Clinical Research
23. International Journal of Molecular Sciences
24. Journal of Clinical Medicine and Research
25. Ecotoxicology and Environmental Safety
26. Pakistan Journal of Medical Research
27. Ophthalmology and Clinical Research
28. Journal of Medicinal Plant Research
29. ACS Applied Materials & Interfaces
30. The Scientific Pages of Pediatrics
31. Journal of Bacteriology Research
32. African Journal of Biotechnology
33. Current Eye Research
34. Physical Biology
35. Molecules
36. Nano

Grants

Higher Education Commission (HEC)
 Pakistan Science Foundation (PSF)
 Pakistan Medical Research Council (PMRC)

Research career:

Our broad research interests include the epidemiology and pathogenic mechanism of emerging parasitic diseases with special interest on role of blood-brain barrier in central nervous system infections. Our aim is to understand the basic molecular mechanism of pathogenesis and pathophysiology of serious infections (i.e., encephalitis). These studies will help us to identify potential targets, which may lead to the development of therapeutic interventions. Currently, we are looking at role of the blood-brain barrier to understand how these pathogens traverse the blood-brain barrier to gain entry into the central nervous system to produce disease. Furthermore, using multi-disciplinary approach we are looking for potential novel synthesized compounds or nanoparticles or/and obtained from plants or insects to discover potential drug candidates for drug delivery system to alleviate the burden of life threatening infections. We are conducting research using state-of-the-art technologies in the field of infectious diseases.

Research Interests: (Key words)

- Infectious Diseases
- Medical Microbiology
- Immunopharmacology
- Pathogenesis
- Proteomics
- Parasitology
- Parasite-Pathogen Interactions
- Blood-brain barrier
- Nanomedicine
- Cell Signaling

Research Support:

S No	Year	Project Title	Funding body	Amount	Role	Outcome / Remarks
1	2016-17	New approach of understanding <i>Brucella</i> pathogenesis using	Deanship of Scientific Research,	SR: 79000	PI	Completed Research paper is in press

		<i>Acanthamoeba</i> as a tool to evaluate the antibiotic resistance potential for vaccine development in Kingdom of Saudia Arabia.	Majmaah University, Kingdom of Saudia Arabia			
2	2015-19	Screening of Pakistani medicinal plants for acetylcholine esterase inhibitory activity and their <i>in vitro</i> certification using human brain microvascular endothelial cells	HEC-NRPU	Rs: 18.39 million	Co-PI	On going. First year report submitted
3	2013-15	Fractionation and further characterization of crude extracts of <i>Peganum harmala</i> , <i>Melia azedarach</i> and <i>Ricinus communis</i> for anti- <i>Acanthamoeba</i> drug development	IBGE/KRL	Not specified	PI	Completed Two articles were published from this project. Article no. 6 and 14 in the publication list
4	2013-15	Potential use of in house sol hydrothermally synthesized doped versus pure TiO ₂ nanoparticles in drug delivery system to treat life threatening infections	IBGE/KRL	Not specified	PI	Completed One article was published from this project. Article no. 5 in the publication list
5	2013-15	Isolation and identification of Free Living Amoeba from water resources of Pakistan	IBGE/KRL	Not specified	PI	Completed One article was published from this project. Article no. 4 in the publication list
6	2012-14	Prevalence of <i>Acanthamoeba</i> in natural Environmental of Pakistan	PSF	Rs: 2.21 million	PI	Completed Funds were not released due to lack of funds but the project was completed successfully on self-funding. One article was published from this project. Article no. 7 in the publication list
7	2008-09	Anaphylactic Reactions as a Major Cause of Death in Drug Users	Wessex Medical Research, Funding research to fight disease, State of Jersey, UK	£44900		Completed One article was published from this project. Article no. 24 in the publication list
8	2005-08	<i>Balamuthia</i> Amoebic Encephalitis	Central Research Centre, London	£45000		Completed Ten articles were published from this project. Article no. 25-33 and 38 in the publication list

Collaborations:**International:**

- Dr. Jane Nicklin, Department of Biology, Birkbeck, University of London, UK
- Dr. Muhammad Mokhlesur Rahman, Kulliyah of Pharmacy, International Islamic University, Malaysia
- Prof. Yasuhiko Suzuki, Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan

- Dr. Suk-Yul Jung, Department of Biomedical Laboratory Science, Namseoul University, Korea
- Prof. Hiroyuki Yamaguchi, Faculty of Health Sciences, Hokkaido University, Sapporo, Japan.
- Dr. Andrew Walls, School of Medicine, Southampton University Hospital, Southampton, UK
- Dr. Kim and Dr Stins, Johns Hopkins University, Baltimore, US
- Dr. David Warhurst, LSHTM, University London, UK
- Dr. A. Rivas, La Laguna University, Spain

National:

- Prof. Dr. Saqib Ali, Department of Chemistry, Quaid-i-Azam University, Islamabad
- Dr. Jamshad Iqbal, Department of Pharmaceutical Sciences, COMSATS, University, Abbottabad
- Dr. Asif Mir, Department of Environmental Sciences, International Islamic University, Islamabad
- Dr. Salik Nawaz, Institute of Mycology & Plant Pathology, Punjab University Lahore
- Dr. Shahid Nasir, National Centre for Physics, Quaid-i-Azam University, Islamabad.
- Dr. Syed Abid Ali, HEJ, Research Institute of Chemistry, University of Karachi
- Dr. Fazli Rabbi, Health Biotechnology Division, NIBGE, Faisalabad
- Dr. Munir Ahmed, Department of Entomology, PMAS, Arid University, Rawalpindi
- Dr. Abdul Hameed, Institute of Biomedical and Genetic Engineering, Islamabad
- Dr. Asma Gul, Department of Bioinformatics and Biotechnology, IIUI

Teaching Experience:

College of Applied Medical Sciences, Majmaah University, Kingdom of Saudi Arabia

Professor (Associate)

2016-now **MSc Courses:**

- Applied Clinical Microbiology (MDL-481)
- Clinical Bacteriology (MDL-363)
- Clinical Parasitology (MDL-455)
- Clinical Virology (MDL-471)
- Medical Microbiology (MDL-243)
- Research & Seminar (MDL-475)

University of Haripur, Khyber Pakhtunkhwa

Associate Professor

2012-now **MS Courses:**

- Research Methodology
- Immunology
- Virology
- Graduate Seminar

International Islamic University, Islamabad

Adjunct Faculty

2010-13 **MS Courses:**

- Health Biotechnology
- Proteomics

COMSATS, Institute of Information Technology, Abbottabad

Assistant Professor

2008-09 **BES Courses:**

- Advisory
- Environmental Microbiology (ENV-211)
- Fundamentals of Ecology (ENV-281)
- Applied Environmental Microbiology (ENV 412)

Birkbeck, University of London, UK

Part time Lecturer and Lab demonstrator

2005-08 **MSc Courses:**

- Parasitology and Virology
- Immunology
- Aspects of Bacterial Diseases

Allama Iqbal Open University, Islamabad Pakistan

Lecturer

2000-01 **FSc Courses:**

➤ Biology

Graduate and Undergraduate Supervision:

	Name of Student	Thesis title	Year	Role	Degree
2018					
1	Fahad Mohaimeed M Alanazi	Relationship between body mass index and quality of life among college student Saudi males	2018	Supervisor	BSc (Hons)
2	Abdul Aziz Adeeb M Al Suliman	Prevalence of hemoglobinopathies in King Khalid hospital, Saudi Arabia	2018	Supervisor	BSc (Hons)
3	Maalik Anas M Al Sabbagh	The current status of MERS-CoV in Kingdom of Saudi Arabia	2018	Supervisor	BSc (Hons)
2017					
4	Muhammad Ajmal	Development of site specific anticancer drugs- Design, synthesis and anticancer studies of fluorescent 1,2,4-triazole-peptide conjugates	2017-on going	Co-supervisor	PhD
5	Arsalam Gil	Interaction of <i>Acanthamoeba castellanii</i> with <i>Salmonella typhimurium</i> revealed an inhibitory role of cellulose synthase BcsA in amoebic-bacterial association	2017-on going	Co-supervisor	MPhil
6	Muhammad Wasim Rafique	Role of type-1 fimbriae and mortality of <i>Salmonella typhimurium Acanthamoeba castellanii</i>	2017-on going	Co-supervisor	MPhil
7	Abdullah Saud Al Dhbaib	Status of respiratory diseases in the Kingdom of Saudi Arabia	2017	Supervisor	BSc (Hons)
8	Abdullah Kanaan Almutairi	Comprehensive literature survey of <i>MERS-CoV</i> in Majmaah, Saudi Arabia	2017	Supervisor	BSc (Hons)
2016					
9	Khalid Sulioman Al-Anazi	Epidemiology of Brucellosis in Saudi Arabia	2016	Supervisor	BSc (Hons)
10	Hady Laify Al-Matairy	Prevalence of <i>Clostridium difficile</i> infection in the Kingdom of Saudi Arabia	2016	Supervisor	BSc (Hons)
2015					
11	Muazzama Akhter	<i>In vitro</i> evaluation of antibacterial potential of locally synthesized MWNTs against local clinical isolates using all available methods	2015	Co-supervisor	MPhil
12	Muhammad Ajmal	Synthesis, characterization and potential biomedical applications of fluorescent carbon nanoparticles	2015	Co-supervisor	MPhil
13	Dr. Malik Muhammad Iqbal	Respiratory diseases pattern among the local inhabitants of Hattar industrial state	2015	Supervisor	MSc
14	Dr. Muhammad Ayaz	Effect of endemic diseases on local community in Haripur industrial state, Haripur	2015	Supervisor	MSc
15	Dr. Saleem Khan	Assessment of Dengue fever on the bases of knowledge, attitude and practices in rural and urban areas of district Abbottabad	2015	Supervisor	MSc
16	Dr. Javed Khan	Comparative analysis of solid waste management system in DHQ and women and children hospital of Haripur, district Haripur, KPK, Pakistan	2015	Supervisor	MSc
17	Dr. Sagheer Ahmad	Hepatitis B virus infection among NRTC employees	2015	Supervisor	MSc

		at NRTC hospital seroprevalence and associated factors			
18	Dr. Murad Khan	Hepatitis C virus infection among NRTC employees at NRTC hospital seroprevalence and associated factors	2015	Supervisor	MSc
2014					
19	Dr. Sher Bahadur	Prevalence of iron deficiency anemia in primigravida from district haripur	2014	Supervisor	MSc
20	Dr. Sarfaraz Khan	Prevalence of rickets in children under five with lower respiratory tract infections visiting Pediatric department at Ayub Teaching Hospital Abbottabad	2014	Supervisor	MSc
21	Dr. Ihsan Ali	Assessment of level of sanitary practices and pattern of waterborne diseases in the inhabitants of district Swat, Khyber Pakhtunkhwa	2014	Supervisor	MSc
22	Dr. Uzair Noor	Impact of terrorism on the development of posttraumatic stress disorder among the residents of Khyber bazaar and its surrounding areas in Peshawar, Khyber Pakhtunkhwa, Pakistan	2014	Supervisor	MSc
23	Dr Qazi Yasir imdad	Mapping of healthcare providers and assessment of their services and practices at union council Sir-e-Saleh, district Haripur, Pakistan	2014	Supervisor	MSc
24	Dr. Sher Bahadur	Quality and pattern of consumption of milk in selected union council of district Haripur, Pakistan	2014	Supervisor	MSc
25	Dr. Haroon Rashid	Job satisfaction among nurses of public and private hospital of district Haripur	2014	Supervisor	MSc
2013					
26	Malik Muhammad Imran	Synthesis and characterization of un-doped/doped TiO ₂ by sol-gel and sol-hydrothermal routes to improve photo-catalytic properties	2013	Co-supervisor	MPhil
27	Abida Akbar	Genotyping of Naegleria isolates from natural resources of Islamabad and Rawlakot	2013	Co-supervisor	MPhil
2012					
28	Tania Tanveer	Molecular identification and characterization of Acanthamoeba species in natural resources of Pakistan	2012	Co-supervisor	MPhil
29	Hafiz Muhammad Shoaib	Screening for antimicrobial activity of some medicinal plants	2012	Co-supervisor	MPhil
30	Sadaf Mushtaq & Khadija Barlas	Evaluation of effects of free versus pentamidine coated Carbon Nanoparticles (CNPs & CNP.Pent) on <i>Acanthamoeba castellanii</i> (T1 & T4 genotype).	2012	Co-supervisor	BSc
2008					
31	Eleni Pavlopoulou	Investigation of molecular mechanism of encystment in <i>Balamuthia mandrillaris</i>	2008	Co-supervisor	MSc
2006					
32	Rocio Castro	Immune responses of locusts to challenge with pathogenic <i>Acanthamoeba</i>	2006	Co-supervisor	BSc

33	Sarah	Effect of exogenous sugar on <i>Balamuthia</i> -medicated HBMEC binding	2006	Co-supervisor	BSc
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External Examiner:

International Islamic University, Islamabad
COMSATS University, Abbottabad

Course Plan:

COMSATS, Institute of Information Technology, Abbottabad

BS Courses:

- Environmental Microbiology
- Fundamentals of Ecology
- Applied Environmental Microbiology

University of Haripur, Haripur, Khyber Pakhtunkhwa**MS Courses:**

- Research Methodology
- Immunology
- Virology

International Islamic University, Islamabad**MS Courses:**

- Health Biotechnology

Accomplishments

■ **Pathogenesis of *Balamuthia* amoebic encephalitis**

- Novel metalloprotease
- Isolation and characterization of Galactose binding protein (GBP)
- Disruption of blood-brain barrier
- Protein retinoblastoma (pRb) dephosphorylation (a master regulator of cell cycle)
- Activation of Nuclear transcription factor kappa B (NF-kB)
- Identification and characterization of Ecto-ATPases
- Amoeba induces apoptosis in HBMEC

Publications:

Cumulative Impact Factor: 100.621

Total Citation: 535

2018

1. Gil, A., Rafique, MW., Manan, T., Slaeem, S., Römling, U., **Matin, A.**, and Ahmad., I. The cellulose synthase BcsA plays a role in interactions of *Salmonella typhimurium* with *Acanthamoeba castellanii* genotype T4. *Parasitology Research*. <https://doi.org/10.1007/s00436-018-5917-4>. (IF: 2.329) ISI Index
2. Tanveer. T., Nawaz, S and **Matin. A.** Therapeutic potential of folk plants used against pathogenic and opportunistic free living amoeba (*Acanthamoeba*, *Balamuthia* and *Naegleria*); a review. *International Journal of Cell Science and Molecular Biology*. DOI: 10.19080/IJCSMB.2018.04.555628.
3. **Matin. A.** Nawaz S. and Jung, S-Y. Effect of macrophage alone or primed with cytokines on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells *in vitro*. *Pakistan Journal of Pharmaceutical Sciences*. 31(6): In press
4. Rafique, MW., Manan, T., Slaeem, S., **Matin, A.**, and Ahmad, I. Role of type 1 fimbriae and motility of *Salmonella typhimurium* in interaction with *Acanthamoeba castellanii* (T4 genotype). (Under review)

2017

5. Tanveer, T., Hameed, A., Dukhyil A. A., Alaidarous, M., **Matin, A.** Isolation of thermotolerant pathogenic *Naegleria australiensis* from diverse water resources including household drinking water in Pakistan. *Acta Protozoologica*. 56: 321-326. (IF: 1.49) ISI Index
6. **Matin, A.** Primary amebic meningoencephalitis; a new emerging public health threat by *Naegleria fowleri* in Pakistan. *Journal of Pharmaceutical Research and Drug Design*. 1: 1-3.

2016

7. Imran, M., Muazzam, AG., Habib, A and **Matin, A.** Synthesis, characterization and amoebicidal potential of locally synthesized TiO₂ nanoparticles against pathogenic *Acanthamoeba trophozoites in vitro*. *Journal of Photochemistry & Photobiology B: Biology*. 159: 125-132 (IF: 2.96) ISI Index
 8. Sohaib HM, Nawaz S, and **Matin A.**, Methanolic extracts of *Peganum harmala* exhibit potent activity against *Acanthamoeba castellanii* cysts and its encystment *in vitro*. *Pakistan Journal of Pharmaceutical Sciences* 29(6):1993-1996. (IF: 1.13) ISI Index
- 2015**
9. Tanveer, T., Hameed, A., Gul, A and **Matin, A.** Quick survey for detection, identification and characterization of *Acanthamoeba* genotypes from some selected soil and water samples in Pakistan. *Annals of Agricultural and Environmental Medicine*. 22 (2): 232-235. (IF: 3.06; Citation: 2) ISI Index
 10. Ajmal, M, Yunus, U, **Matin, A**, Haq N. Synthesis, characterization and *in vitro* evaluation of methotrexate conjugated fluorescent carbon nanoparticles as drug delivery system for human lung cancer targeting. *Journal of Photochemistry & Photobiology B: Biology*. 153: 111-120 (IF: 2.96, Citation: 11) ISI Index
- 2014**
11. Saeed A, Mahesar PA, Zaib S, Khan MS, **Matin A**, Shahid M, Iqbal J. Synthesis, cytotoxicity and molecular modelling studies of new phenylcinnamide derivatives as potent inhibitors of cholinesterases. *European Journal of Medicinal Chemistry*, 78: 43-53. (IF: 3.499; Citation: 16) ISI Index
 12. Erben F, Michalik D, Feist H, Kleeblatt D, Hein M, **Matin A**, Iqbal J, Langer P. Synthesis and antiproliferative activity of (Z)-1-glycosyl-3-(5-oxo-2-thioxoimidazolidin-4-ylidene)indolin-2-ones and (Z)-3-(2-glycosylsulfanyl-4-oxo-4,5-dihydro-thiazol-5-ylidene)indolin-2-ones. *RSC Advances*, 4: 10879-10893. (IF: 3.71; Citation: 7) ISI Index
 13. Kleeblatt D, Cordes CA, Lebreuz P, Hein M, Feist H, **Matin A**, Raza R, Iqbal J, Munshi O, Rahman Q, Villinger A, and Langer P. Synthesis and Antiproliferative Activity of N-Glycosyl-3,3-diaryloxindoles. *RSC Advances*. 4: 22828-22839. (IF: 2.562; Citation: 3) ISI Index
 14. **Matin. A.** Jung, S-Y and Nawaz S. *In vitro* assessment of cytokines interactions with *Balamuthia mandrillaris* using human brain microvascular endothelial cells. *Pakistan Journal of Pharmaceutical Sciences* 27(1):107-113. (IF: 1.13; Citation: 02) ISI Index
- 2013**
15. Erben F, Kleeblatt D, Sonneck M, Hein M, Feist H, Fahrenwaldt T, Fischer C, **Matin A**, Iqbal J, Plötz M, Eberle J and Langer P. Synthesis and antiproliferative activity of selenoindirubins and selenoindirubin-N-glycosides. *Organic & Biomolecular Chemistry*, 11(24):3963-3978. (IF: 3.696; Citation: 13) ISI Index
 16. Shoaib. H.M, Muazzam. A.G, Mir. A, Jung. S-Y and **Matin. A.** Evaluation of inhibitory potential of some selective methanolic plants extracts on biological characteristics of *Acanthamoeba castellanii* using human corneal epithelial cells *in vitro*. *Parasitology Research*. 112 (3): 1179-1188. (IF: 2.852; Citation: 02) ISI Index
 17. Tanveer T, Hameed A, Muazzam. A.G, Jung S-Y, Gul A and **Matin A.** Isolation and molecular characterization of potentially pathogenic *Acanthamoeba* genotypes from diverse water resources including household drinking water from Khyber Pakhtunkhwa, Pakistan. *Parasitology Research*. 112 (8): 2925-2932. (IF: 2.852; Citation: 9) ISI Index
 18. Iqbal J, Saeed A, Raza R, **Matin A**, Hameed A, Furtmann N, Lecka J, Sévigny J, Bajorath J. Identification of Sulfonic Acids as Efficient Ecto-5'-Nucleotidase Inhibitors. *European Journal of Medicinal Chemistry*. 70: 685-691. (IF: 3.499; Citation: 9) ISI Index
- 2012**
19. Raza. R, **Matin. A**, Sarwar. S, Barsukova-Stuckart. M, Ibrahim. M, Kortz. U and Iqbal. J. Polyoxometalates as potent and selective inhibitors of alkaline phosphatases with profound anticancer and amoebicidal activities. *Dalton Transaction*. 41(47):14329-14336. (IF: 3.83; Citation: 33) ISI Index
 20. Kim. JH, **Matin. A**, Shin. HJ, Park. H, Yoo. KT, Yuan. XZ, Kim. KS, Jung. SY. Functional roles of mannose-binding protein in the adhesion, cytotoxicity and phagocytosis of *Acanthamoeba castellanii*. *Experimental Parasitology*. 132: 287-292. (IF: 2.122; Citation: 13) ISI Index
 21. **Matin A**, Mehmood K, Jung S-Y. Impact of macrophages on *Balamuthia mandrillaris* virulence properties using human brain microvascular endothelial cells *in vitro*. *Retrovirology*. 9(1): 38. doi:10.1186/1742-4690-9-S1-P38 (IF: 6.47) ISI Index
 22. **Matin A**, Ismail M, Mehmood K. *Acanthamoeba castellanii*. antibody prevalence among diverse tribal Pakistani population. *Retrovirology*. 9(Suppl-1): 47. DOI:10.1186/1742-4690-9-S1-P47 (IF: 6.47; Citation: 2) ISI Index
- 2011**
23. **Matin. A**, and Jeong. S-Y. Phospholipases activities in the clinical and environmental isolates of *Acanthamoeba*. *Korean Journal of Parasitology*. 49:1-8. (IF: 0.963; Citation: 9) ISI Index

24. **Matin. A**, and Jeong. S-Y. Interaction of *Escherichia coli* K1 and *E. coli* K5 with *Acanthamoeba castellanii* trophozoites and cysts. *Korean Journal of Parasitology*. 49 (4): 349-356 (IF: 0.963; Citation: 13) ISI Index
2009
25. Brindley. N, **Matin. A**, and Khan. N. A. *Acanthamoeba castellanii*: High antibody prevalence in racially and ethnically diverse populations. *Experimental Parasitology*, 121: 254-256. (IF: 1.751; Citation: 31) ISI Index
2008
26. **Matin. A**, Siddiqui. R, Jayasekera. S, and Khan. N. A. The increasing importance of *Balamuthia mandrillaris*. *Clinical Microbiology Reviews*, 21(3): 435-448. (IF: 16.409; Citation: 75) ISI Index
27. **Matin. A**, and Khan. N. A. Demonstration and partial characterization of ecto-ATPase activity in *Balamuthia mandrillaris* and its possible role in host cell interactions. *Letters in Applied Microbiology*, 47: 348-354. (IF: 1.679; Citation: 13) ISI Index
2007
28. **Matin. A**, Jeong. S. R, Kim. K. S, Stins. M, and Khan. N. A. *Balamuthia mandrillaris* interactions with the human brain microvascular endothelial cells *in vitro*. *Journal of Medical Microbiology*, 56: 1110-1115. (IF: 2.091; Citation: 17) ISI Index
29. **Matin. A**, Jeong. S. R, Stins. M, and Khan. N. A. Effects of human serum on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells. *Journal of Medical Microbiology*, 56: 30-35. (IF: 2.091; Citation: 13) ISI Index
30. Jung. S-Y, **Matin. A**, Kim. K. S, and Khan. N. A. The capsule plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba*. *International Journal of Parasitology*. 37: 417-423. (IF: 3.752; Citation: 20) ISI Index
31. Siddiqui. R, **Matin. A**, Warhurst. D, Stins. M, and Khan. N. A. Effect of antimicrobial compounds on *Balamuthia mandrillaris* encystment and human brain microvascular endothelial cell cytotoxicity. *Antimicrobial Agents and Chemotherapy*. 51: 4471-4473. (IF: 4.716; Citation: 11) ISI Index
2006
32. **Matin. A**, Stins. M, Kim. K. S, and Khan. N. A. *Balamuthia mandrillaris* exhibit metalloprotease activities. *FEMS Immunology and Medical Microbiology* 47: 83-91. (IF: 1.972; Citation: 38) ISI Index
33. **Matin. A**, Jeong. S. R, Faull. J, and Khan. N. A. Evaluation of prokaryotic and eukaryotic cells as food source for *Balamuthia mandrillaris*. *Archive of Microbiology* 186: 261-271. (IF: 1.975; Citation: 24) ISI Index
2005
34. Dudley. R, **Matin. A**, Alsam. S, Sissons. J, Mahsood. A. H, and Khan. N. A. *Acanthamoeba* isolates belonging to T1, T2, T3, T4 but not T7 encyst in response to increased osmolarity and cysts do not bind to human corneal epithelial cells. *Acta Tropica* 95(2):100-108. (IF: 1.707; Citation: 47) ISI Index
35. Jayasekera. S, **Matin. A**, Sissons. J, Mahsood. A. H, and Khan. N. A. *Balamuthia mandrillaris* stimulates interleukin-6 release in primary human brain microvascular endothelial cells via a phosphatidylinositol 3-kinase-dependent pathway. *Microbes & Infection* 7(3): 1345-1351. (IF: 2.801; Citation: 17) ISI Index
2002
36. **Matin. A**, Khan. M. A, Ashraf. M, and Qureshi. R. A. Pollen Fertility Investigation of Medicinal Plants of the Himalayan Region, Shogran Valley District Mansehra Pak. *Hamdard Medicus* 25(1): 78-82.
37. **Matin. A**, Khan. M. A, Ashraf. M, and Qureshi. R. A. Traditional Use of Shrubs and Trees of Himalayan Region, Shogran Valley Pakistan. *Hamdard Medicus* 25(2): 50-56. (Citation: 13)
2001
38. **Matin. A**, Khan. M. A, Ashraf. M, and Qureshi. R. A. Traditional Use of Herbs, Shrubs and Trees of Himalayan Region, Shogran Valley District Mansehra, Pakistan. *Pakistan Journal of Biological Sciences* 4(9): 1101-1107. (Citation: 38)

Gene Bank Submissions:

In total 43 partial gene sequences of free living amoeba (*Acanthamoeba* sp., *Naegleria* sp. and *Vahlkampfia* sp.) were reported for the first time from Pakistan including 17 novel sequences after my name.

Novel Partial Gene Sequences (17) published after my name.

- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A.** 2013. Isolation and molecular identification of free-living amoeba from natural resources of Pakistan. GeneBank Accession No: [KF018478](#), [KF018479](#)
- Tanveer, T., Hameed, A., Jung, S.Y., Gul, A. and **Matin, A.** 2013. Molecular identification and characterization of *Acanthamoeba* species in natural resources of Pakistan. GeneBank Accession No: [KC493774](#), [KC493776](#)

- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and molecular characterization of free living amoeba from environmental sources of Pakistan. GeneBank Accession No: [KC874856](#), [KC874857](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and molecular identification of free-living amoeba from natural resources of Pakistan. GeneBank Accession No: [KF018478](#), [KF018479](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Molecular identification and characterization of Acanthamoeba species in natural resources of Pakistan. GeneBank Accession No: [KF035055](#), [KF035056](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and genotyping of free living amoeba from Pakistan. GeneBank Accession No: [KF234561](#), [KF234562](#)
- Tanveer, T., Hameed, A., Jung, S.Y., Gul, A. and **Matin, A. 2013**. Molecular identification and characterization of Acanthamoeba species in natural resources of Pakistan. GeneBank Accession No: [KC493774](#), [KC493776](#), [KC493777](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Zafar, B.U. and **Matin, A. 2013**. Isolation of free-living amoeba from Azad Jammu Kashmir, Pakistan. GeneBank Accession No: [KF442971](#), [KF442972](#)

The remaining 26 partial gene sequences

- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Identification of Acanthamoeba from soil and water sources in Islamabad, Pakistan. GeneBank Accession No: [KC778188](#), [KC778190](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and genotyping of environmental sources in Karachi, Pakistan. GeneBank Accession No: [KC778189](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Genotyping of free living amoeba from water resources in Karachi, Pakistan. GeneBank Accession No: [KC778187](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and genotyping of Acanthamoeba from soil samples in Lahore, Pakistan. GeneBank Accession No: [KC778186](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and molecular characterization of free living amoeba from environmental sources of Pakistan. GeneBank Accession No: [KC820644](#), [KC820645](#), [KC820646](#), [KC820647](#), [KC820648](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Isolation and molecular identification of free-living amoeba from natural resources of Pakistan. GeneBank Accession No: [KF018477](#), [KF018480](#), [KF018481](#)
- Tanveer, T., Hameed, A., Muazzam, A.G., Gul, A. and **Matin, A. 2013**. Molecular identification and characterization of Acanthamoeba species in natural resources of Pakistan. GeneBank Accession No: [KF035057](#),
- Tanveer, T., Hameed, A., Muazzam, A.G., Zafar, B.U. and **Matin, A. 2013**. Isolation of free-living amoeba from Azad Jammu Kashmir, Pakistan. GeneBank Accession No: [KF153929](#), [KF153930](#), [KF153931](#), [KF153932](#), [KF153933](#), [KF153934](#), [KF153935](#)
- Tanveer, T., Hameed, A., Jung, S.Y., Gul, A. and **Matin, A. 2012**. Molecular identification and characterization of Acanthamoeba species in natural resources of Pakistan. GeneBank Accession No: [KC203588](#), [KC203589](#), [KC203590](#), [KC203591](#), [KC203592](#), [KC493773](#), [KC493775](#)

International / National Invited Talks:

1. *Evaluation of therapeutic potential of folk plants extracts against Acanthamoeba in vitro*. Global Experts meeting on Pharmaceutics and Drug Delivery System. October 12-13, **2017**, Osaka, Japan.
2. *Increasing importance of free living amoeba*. Deanship of Scientific Research, College of Applied Medical Sciences, Majmaah University, Kingdom of Saudi Arabia. April 18, **2016**, Majmaah, KSA.
3. *Peganum harmala* exhibit potent activity against *Acanthamoeba* adhesion and cytotoxicity to human corneal epithelial cells *in vitro*. . 3rd International Conference and Exhibition on Traditional and Alternative Medicine August 3-5 **2015** Birmingham, United Kingdom.
4. Carbon nanotubes influence the phagocytosis mechanism of *Acanthamoeba in vitro*. 2nd Edition Nanotech Dubai 2015 International Conference and Exhibition. March 16-18, 2015 in Dubai – UAE in the JW Marriott Marquis Hotel, Sheikh Zayed Rd, Business Bay, Dubai, UAE.
5. Prevalence of free-living amoebae in the environmental resources of Pakistan and its future potential threat to the public health across the country. 5th Annual Public Health Conference entitled “Universal Health Coverage: Issues & Challenges in Pakistan” December 11-12, **2014**. Organized by Health Services Academy, Islamabad.
6. Impact of multi-walled carbon nanotubes in bacterial invasion and ingestion by *Acanthamoeba in vitro*. “International Conference on Advances in Environment, Agriculture & Medical Sciences (ICAEAM’14)

- November 16-17, **2014**, Grand Seasons Hotel, Kuala Lumpur, Malaysia. Organized by International Academy of Arts, Science and Technology.
7. Methanolic seed extracts of *Peganum harmala* exhibit potent activity against *Acanthamoeba castellanii* cysts and its encystment *in vitro*. 2nd International Conference and Exhibition on Traditional and Alternative Medicine August 25-26, **2014** Double Tree by Hilton, Beijing, China.
 8. Impact of carbon nanotubes in *Acanthamoeba* adhesion and cytotoxicity to human brain microvascular endothelial cells *in vitro* model system. International Conference on Nanotechnology, July 5-6, **2014**, Singapore. Organized by World Academy of Science, Engineering and Technology.
 9. Effect of free versus functionalized carbon nanotubes on virulence characteristics of *Acanthamoeba castellanii* using human brain microvascular endothelial cells *in vitro*. 2nd International Conference on Nanotechnology in Medicine, Royal Free Hospital, University College London, London, UK (February 26-28, **2014**).
 10. Evaluation of water and soil samples for *Naegleria* isolation from Azad Kashmir, Pakistan. 4th Annual Public Health Conference entitled "Public Health in Pakistan: A Decade of Past Experiences and Future Challenges" at Health Services Academy, Islamabad, Pakistan (December 2-3, **2013**)
 11. Carbon nanotubes: a potential vehicle for drug delivery system. IIUI (April 03, **2013**)
 12. Nanoparticles application in drug delivery system. SCME, NUST Islamabad (January 23, **2013**).
 13. Functional roles of proteins in protozoal transversal of the blood-brain barrier to invade central nervous system. NIBGE Faisalabad. (June 19, **2012**).
 14. Stem cell technology. 25th June 2012, COMSATS, University Abbottabad. Plenary lecture
 15. *Escherichia coli* K5 and type III secretion systems mutant interactions with *Acanthamoeba* T4. (January 10-12, **2012**). National Science Conference "Roadmap of cutting edge technologies", organized by Pakistan Academy of Sciences, Islamabad. *Plenary lecture*
 16. Chronic microbial infections may lead to the cancer? The 11th Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Biomolecular Sciences in Development" University of Karachi. Pakistan, December 1-5, **2010**. *Plenary lecture*
 17. Role of proteins in parasitic invasion during infection process. Institute of Biomedical and Genetic Engineering, Islamabad, Pakistan, March 17, **2010**. *Plenary lecture*
 18. *Acanthamoeba castellanii*: High antibody prevalence in racially and ethnically diverse populations. XIIITH International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain, May, 17-21 **2009**.
 19. Isolation of *Balamuthia mandrillaris*-specific antibodies from a bacteriophage antibody display library. XIIITH International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain, May 17-21 **2009**.
 20. *Balamuthia* amoebic encephalitis: current status and future prospects. Institute of Biomedical and Genetic Engineering, Islamabad, Pakistan, October 5, **2008**. *Plenary lecture*
 21. Increasing importance of *Balamuthia* amoebic encephalitis. Department of Microbiology, Quaid-i-Azam University, Islamabad, Pakistan, September 11, **2008**. *Plenary lecture*
 22. *Balamuthia mandrillaris* traversal of the blood-brain barrier. Roberts@BBK-2007, Conference and Exhibition, a Postgraduate Research Showcase, Clore Management Centre, Birkbeck, University of London. December 3-4 **2007**. *Oral presentation*
 23. *Balamuthia mandrillaris* traversal of the blood-brain barrier. XIIth International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Wako City, Saitama Prefecture, Japan. 27-30 August **2007**. *Oral presentation*
 24. Encystment in *Balamuthia mandrillaris*: a property that enhances resistance and/or recurrence of infection. XIIth International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Wako City, Japan. August 27-30 **2007**. *Oral presentation*
 25. *Balamuthia mandrillaris* transmigration of the blood-brain barrier. Medical Research Society (MRS) Meeting for Clinical Scientists in Training, Royal College of Physicians, London, UK. February 28, **2007**. *Oral presentation*

Birkbeck University Talks:

- *Balamuthia mandrillaris* transmigration of the blood-brain barrier. *Virtual Poster* at Research Student Seminars July 10, **2007**.
- *Balamuthia mandrillaris* interactions with the human brain microvascular endothelial cells *in vitro*. Annual School seminars **2007**.
- *Balamuthia mandrillaris* exhibit metalloprotease activities. Annual School Seminars **2006**.
- In addition, I routinely give talks in our postgraduate journal club / seminar programme at School of Biological and Chemical Sciences, Birkbeck University of London, England, UK. **2005-08**.

Conferences Publications in International/ National Conferences / Meetings:

1. Akhtar, M., Rashid U., **Matin A.** (March 25-28, **2015**) Assessment of antibacterial potential of locally synthesized carbon nanotubes against some local clinical isolates *in vitro*. 10th Biennial International Conference of Pakistan Society of Microbiology” entitled “ Exploring Microbes for Future Endeavouring”
2. **Matin, A.**, Nisar, S., Mazzar, S., Muazzam, AG. Jung, S-Y. (July 05-06, **2014**). Impact of carbon nanotubes in *Acanthamoeba* adhesion and cytotoxicity to human brain microvascular endothelial cells *in vitro* model system. International Science Index, 8 (7) II: 165.
3. Tanveer, T., Hameed, A., Gul, A. and **Matin. A.** (December 2-3, **2013**) Country wide survey for detection of brain eating bugs from environmental resources and assessment of their potential threat to public health across Pakistan. 4th Annual Public Health Conference entitled “Public Health in Pakistan: A Decade of Past Experiences and Future Challenges” at Health Services Academy, Islamabad, Pakistan. Pp 35.
4. Tanveer, T., Hameed, A., Muazam, A. G., Gul, A. and **Matin. A.** (22 - 23 February **2013**). Identification of Pathogenic and Non-pathogenic Genotypes of *Acanthamoeba* from Water Resources of Khyber Pakhtunkhwa, Pakistan at 10th Annual Conference on Infectious Diseases Society of Pakistan at Shaukat Khanum Memorial Cancer Hospital & Research Centre Lahore, Pakistan. Pp66.
5. Shoaib. H.M, Muazzam. A.G, Mir. A, Jeong. S-R and **Matin. A.** (22 - 23 February **2013**). *In Vitro* Inhibitory Potential of Plants Extracts on Biological Properties of *Acanthamoeba Castellanii* Using Human Corneal Epithelial Cells at 10th Annual Conference on Infectious Diseases Society of Pakistan at Shaukat Khanum Memorial Cancer Hospital & Research Centre Lahore, Pakistan. Pp48.
6. **Matin A**, Mazhar K, Muazzam AG, Ismail M and Jung S-Y. (15-19 January **2013**). Impact of carbon nanotubes on biological characteristics of *Acanthamoeba* (T4 genotype) *in vitro*. (15-19 January 2013) 10th IBCAST-2013 Proceedings, Biomedical Sciences Module, vol. 1, page 11.
7. **Matin A**, Mehmood K, Ismail M and JungS-Y. (15-19 January **2013**) Evaluation of functional roles of mannose-binding protein from *Acanthamoeba*T4 to human brain microvascular endothelial cells by chemical mutagenesis. (15-19 January 2013) 10th IBCAST-2013 Proceedings, Biomedical Sciences Module, vol. 1, pages 19-20.
8. **Matin A**, Gul N, Ismail M and Jung S-Y. (15-19 January 2013) *Escherichia coli* K5 and type III secretion systems mutant interactions with *Acanthamoeba* T4. (15-19 January **2013**) 10th IBCAST-2013 Proceedings, Biomedical Sciences Module, vol. 1, pages 20-21.
9. Rabia. R, Iqbal, J, **Matin, A.**, Sarwar, S., Stuckart M.B., Ibrahim M., Kortz U. (November 9-11, **2012**) Polyoxotungstates as inhibitors of cancer regulating enzymes. 11th Shaukat Khanum Cancer Symposium, Lahore. pp65.
10. Iqbal, J., Raza, R., **Matin, A.**, Sarwar, S., Stuckart, MB., Ibrahim, M., Kortz, U. (November 9-11, **2012**) Polyoxometalates as potent and selective inhibitors of alkaline phosphatases with profound anticancer and amoebicidal activities. 11th Shaukat Khanum Cancer Symposium, Lahore. pp68.
11. **Matin, A**, Ismail, M and Mehmood, K. (23-25 May **2012**). *Acanthamoeba castellanii*. antibody prevalence among diverse tribal Pakistani population. 17th International Symposium on HIV and Emerging Infectious Diseases (ISHEID) Marseille, France. pp47
12. **Matin. A**, Mehmood. K and Jeong. S.R, (June 13-16, **2012**). Impact of macrophages on *Balamuthia mandrillaris* virulence properties using human brain microvascular endothelial cells *in vitro*. 15th International Congress on Infectious Diseases, Bangkok, Thailand. pp: 58.
13. **Matin. A**, Mehmood. K and Jeong. S.R, (January 10-12, **2012**). *Escherichia coli* K5 and type III secretion systems mutant interactions with *Acanthamoeba* T4. National Science Conference “Roadmap of cutting edge technologies”, organized by Pakistan Academy of Sciences, Islamabad, pp: 342.
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17. **Matin. A**, Haider R, Ismail M and Jung S.R. (December 1-5, **2010**). The type III secretion system plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba castellanii* (T4 genotype). The 11th Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) “Biomolecular Sciences in Development” University of Karachi. Pakistan.
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 22. Brindley. N, **Matin. A**, and Khan. N. A. (17-21 May **2009**). *Acanthamoeba castellanii*: High antibody prevalence in racially and ethnically diverse populations. XIIITH International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain.
 23. Jayasekera. S, **Matin. A**, Ahmad. A. F, and Khan N. A. (17-21 May **2009**). Isolation of *Balamuthia mandrillaris*-specific antibodies from a bacteriophage antibody display library. XIIITH International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain.
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 25. Khan. N. A, Mortazavi. P. Kim. K. S, Stins. M. **Matin. A**, and Goldsworthy. G. (June 4-6, **2008**). Mechanisms associated with *Acanthamoeba* pathogenesis. First Spanish-French Congress on Protistology, Sevilla, Spain.
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 31. Siddiqui. R, **Matin. A**, Warhurst. D, Stins. M, Kim. K.S, and Khan. N. A. (27-30 August **2007**). Encystment in *Balamuthia mandrillaris*: a property that enhances resistance and/or recurrence of infection. XIIth International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Wako City, Japan.
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40. **Matin. A.**, Mahmood. K, Khalid. N, and Khan. S. N. (29-30 March, **2004**). Status and Constraints in the Application of Forensic Entomology in Pakistan. EAFE, 2nd meeting of the European Association for Forensic Entomology London, UK.
41. **Matin. A.**, Khan. M. A, Ashraf. M, and Qureshi. R. A. (**2000**). Ethnoentomological studies of Himalayan region, Kaghan valley Hazara division (NWFP) Pakistan. Singapore Congress: Department of Biological Sciences, National University of Singapore, Singapore.
42. **Matin. A.**, Khan. M. A, Ashraf. M, and Qureshi. R. A. (**2000**). Check list of traditional uses of plants of Himalayan region, Shogran valley (Hazara division) NWFP Pakistan. Singapore Congress: Department of Biological Sciences, National University of Singapore, Singapore.

Poster Presentations (National/International):

1. Ajmal M, Yunus U, **Matin A.**, Haq NU. (October 20-22, 2014). "Synthesis, Characterization and Potential Biomedical Applications of Fluorescent Carbon Nanoparticles". 25th National and 13th International Chemistry conference organized by Institute of Chemistry, University of the Punjab, Quaid-i- Azam Campus Lahore, Pakistan in collaboration with The Chemical Society of Pakistan.
2. **Matin A.** Tanveer T. Hameed A. Akbar A. Gul A. (May 10-13, 2014). Isolation and molecular identification of free living amoeba from diverse environmental resources of Pakistan. 24th European Society of Clinical Microbiology and Infectious Diseases, Barcelona, Spain.
3. Imran, M., Muazzaum, AG., Habib, A. and **Matin, A.** (February 26-28, 2014). Novel use of in house sol hydrothermally synthesized doped versus pure TiO₂ nanoparticles against pathogenic *Acanthamoeba in vitro*. 2nd International Conference on Nanotechnology in Medicine, Royal Free Hospital, University College London, London, UK. Pp39
4. Sirajuddin M, Ali S, McKee V, **Matin A.** Synthesis, Characterization, Catalytic activity in the conversion of Corn oil into Biodiesel and In Vitro Biological Applications of Amide Based Organotin(IV) Derivatives of 4-(4-methoxy-2-nitrophenylamino)-4-oxobutanoic acid. February 16-18, 2014. Faisalabad conference, Pakistan
5. Tanveer, T., Hameed, A., Gul, A. and **Matin. A.** Country wide survey for detection of brain eating bugs from environmental resources and assessment of their potential threat to public health across Pakistan. 4th Annual Public Health Conference entitled "Public Health in Pakistan: A Decade of Past Experiences and Future Challenges" at Health Services Academy, Islamabad, Pakistan (December 2-3, **2013**)
6. Tanveer, T., Hameed, A., Muazam, A. G., Gul, A. and **Matin. A.** (22 - 23 February **2013**). Identification of Pathogenic and Non-pathogenic Genotypes of *Acanthamoeba* from Water Resources of Khyber Pakhtunkhwa, Pakistan at 10th Annual Conference on Infectious Diseases Society of Pakistan at Shaukat Khanum Memorial Cancer Hospital & Research Centre Lahore, Pakistan. Pp66.
7. Shoaib. H.M, Muazzam. A.G, Mir. A, Jeong. S-R and **Matin. A.** (22 - 23 February **2013**). *In Vitro* Inhibitory Potential of Plants Extracts on Biological Properties of *Acanthamoeba Castellanii* Using Human Corneal Epithelial Cells at 10th Annual Conference on Infectious Diseases Society of Pakistan at Shaukat Khanum Memorial Cancer Hospital & Research Centre Lahore, Pakistan. Pp48.
8. Rabia. R, Iqbal, J, **Matin, A.**, Sarwar, S., Stuckart M.B., Ibrahim M., Kortz U. (November 9-11, **2012**) Polyoxotungstates as inhibitors of cancer regulating enzymes. 11th Shaukat Khanum Cancer Symposium, Lahore. pp65.
9. Iqbal, J., Raza, R., **Matin, A.**, Sarwar, S., Stuckart, MB., Ibrahim, M., Kortz, U. Polyoxometalates as potent and selective inhibitors of alkaline phosphatases with profound anticancer and amoebicidal activities. 11th Shaukat Khanum Cancer Symposium, Lahore. pp68.
10. **Matin. A.**, Shoaib. M, Mir. A, Ismail. M and Jeong. S.R, (May 19, **2012**). Novel use of carbon nanotubes on the biological characteristics of *Acanthamoeba* (T4 genotype) using human corneal epithelial cells, *in vitro*. National Symposium on Frontiers in Nanotechnology organized by NUST Science Society, at National University of Science and Technology, Islamabad.
11. **Matin. A.**, Mehmood. K, Ismail. M and Jeong. S.R, (September 06-16, **2011**). Evaluation of functional roles of mannose-binding protein from *Acanthamoeba* T4 to human brain microvascular endothelial cells by chemical mutagenesis. XIII International Congress of Bacteriology and Applied Microbiology, Sapporo, Japan.
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26. Alsam. S, Sissons. J, **Matin. A**, and Khan. N. A. (September 5-9, **2005**). Role of human tear fluid in *Acanthamoeba* interactions with the human corneal epithelial cells. XIth International Meeting on the Biology and Pathogenicity of Free-Living Amoebae, České Budějovice, Czech Republic.
27. Jayasekera. S, **Matin. A**, Sissons. J, Warhurst. D, and Khan. N. A. (September 5-9, **2005**). *Balamuthia mandrillaris*: clinical diagnosis and pathogenesis. XIth International Meeting on the Biology and Pathogenicity of Free-Living Amoebae, České Budějovice, Czech Republic.
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Press Releases:

- **Talented Birkbeck Student Recognized**
The Birkbeck Magazine

BBK Issue 22: Page # 3: Summer 2007

- **Individual Specialty Award of MRS**, School of Biological and Chemical Sciences, Birkbeck, University of London website March 9th 2007, <http://www.bbk.ac.uk/bcs/news/news19>
- **Top honor for Birkbeck PhD Student Abdul Matin**, Birkbeck, University of London website April 19th 2007. <http://www.bbk.ac.uk/news/20070326>
- **Oral Plenary Prizes**
2007 Clinician Scientists in Training Meeting Prize Awards
Meeting for Clinician Scientists in Training, February 28 2007
Royal College of Physicians, London
http://www.medres.org.uk/j/index.php?option=com_content&task=view&id=28&Itemid=51
- **Selection of Pakistani PhD student for MRS in Britain**
Nawahwaqat (April 2007)
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- **Pakistan Student awarded in UK**
The Post (May 2007)
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Volunteer Experience:

- 2010-13 Postgraduate Journal Club organizer at IB&GE
- 2006-09 Convenor for Islam channel, 14 Bonhill Street, London, EC2A 4BX
- 2001-03 Status of Forensic Entomology in Pakistan with collaboration with Dr Jeffery Wells, USA
- 2002 Floral and Forest Tree Diversity Assessment Study at Watershed Levels of Kotli Sattian. (IUCN)
- 2000 Biodiversity Trainee with IUCN by taking part in Biodiversity assessments, social surveys, conservation and sustainable use initiatives towards devising an Ecosystem Management Plan.
Also contributed in
- Himal Boucher produce
 - Himal Web Site is updated
 - National Biodiversity Policy Workshop
- 1998-99 Research Trainee in Plant Virology Laboratory at Crop Diseases Research Institute, project entitled "Ultra structural Studies of Cotton Leaves Infected by Leaf Curl Disease" (NARC, Islamabad)