

## Abdul Matin

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

*Birkbeck Fellow, United Kingdom (2005-08)*

*Receipt of "The Best Researcher in the UK Specialty Award" (MRS-2007)*

*Wessex Medical Research Fellow, State of Jersey, United Kingdom (2009-10)*

### Current Position:

Dr. Abdul Matin, PhD, PDPHil, PGCHE

Associate Professor

Department of Medical Laboratory Sciences

College of Applied Medical Sciences

Majmaah University, Kingdom of Saudia Arabia

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<https://www.mu.edu.sa/en/departments/college-applied-medical-sciences/faculty-profile-0>



### 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 Associate Professor, Department of Medical Laboratory Sciences, College of Applied Medical Sciences Majmaah University, Kingdom of Saudia Arabia

2012-16 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:

2014-16 Convener of Self Assessment Report (SAR) Committee for MLT department, University of Haripur

2014-16 Convener of Board of Studies for MLT department, University of Haripur

2014-16 Focal person from University of Haripur for collaboration with UK Universities and Research Institutions.

2014-16 Focal person from University of Haripur for collaboration with Malaysian Universities

2013-16 Head, Department of Medical Lab Technology, University of Haripur, Khyber Pakhtunkhwa

2013-16 Head, Department of Public Health, University of Haripur, Khyber Pakhtunkhwa (additional charge)

- 2013-16 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

- 2015-16 Member of Advanced Studies & Research Board, University of Haripur
- 2015-16 Inspector for BA/BSc Annual Examination
- 2014-16 Member of Scholarships Management Committee, University of Haripur
- 2014-16 Member of Statutes Framing Committee, University of Haripur
- 2013-16 Member of Re-checking Committee for BA/BSc/BCom programs
- 2013-16 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

### 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 21<sup>st</sup> century: Markets & Technologies, Survival & Change
- 2009 Calcium (Ca<sup>++</sup>) Flex Station Training (Analytical Technologies, Southampton)
- 2008 Working safely with Tritium <sup>3</sup>H, <sup>125</sup>I, Cr<sup>51</sup> (School of Medicine, Southampton University, UK)
- 2008 HPLC Training course [Dionex (UK) Ltd]
- 2007 Working safely with radioactive compounds S<sup>35</sup>, P<sup>32</sup>, Ca<sup>45</sup>, <sup>14</sup>C (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:

### 2016

- Member of the Innovation Advisory Board for SCIEX
- Finalist for Professional Achievement Award of British Council Alumni

### 2015

- Recognized as **Outstanding Reviewer** for Journal of Ethnopharmacology, Elsevier, Amsterdam, Netherlands. This status is due to be within the top 10<sup>th</sup> 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

- 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, 7-10<sup>th</sup> October 2010 in **Singapore**.

### 2009

- **Young Scientist Travel Grant** by Society for General Microbiology for 13<sup>th</sup> 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 11<sup>th</sup> 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 11<sup>th</sup> 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 157<sup>th</sup> 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)

Please visit the following website for further details

<http://www.pmrc.org.pk/tac.htm>

### 2009-To date

- Approved PhD Supervisor at Higher Education Commission (HEC)

## 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>

## Memorandum of Understanding:

Nation 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:**

World Academy of Science, Engineering and Technology  
Advance Tropical Medicine and Public Health International (ISSN 2228-897X)  
Advance Laboratory Medicine International (ISSN 2228-8961)  
Case Study and Case Report (ISSN 2228-8988)

**Reviewer For:**

**Journals**

Environmental Microbiology (Impact Factor: **5.756**)  
Protist (Elsevier) (Impact Factor: **4.14**)  
Tumor Biology (Impact Factor: **3.611**)  
Parasites & Vectors (Bio Med Central) (Impact Factor: **3.25**)  
Journal of Cancer Research and Experimental Oncology (Impact Factor: **3.081**)  
Journal of Ethnopharmacology (Elsevier) (Impact Factor: **2.755**)  
Acta Tropica (Elsevier) (Impact Factor: **2.787**)  
Environmental Microbiology Reports (Impact Factor: **2.708**)  
Journal of Applied Microbiology (Blackwell Publishing, UK) (Impact Factor: **2.196**)  
Journal of Nanoparticles Research (Impact Factor: **2.175**)  
Molecules (Impact Factor: **2.416**)  
Environmental Sciences, Processes and Impact (Impact Factor: **2.171**)  
International Journal of Environmental Research and Public Health (Impact Factor: **1.998**)  
Letters in Applied Microbiology (Blackwell Publishing, UK) (Impact Factor: **1.629**)  
World Journal of Microbiology and Biotechnology (Impact Factor: **1.262**)  
Pakistan Journal of Pharmaceutical Sciences (Impact Factor: **1.13**)  
Pakistan Journal of Medical Research  
African Journal of Pharmacy and Pharmacology  
Ophthalmology and Clinical Research  
Journal of Science, Technology and Development  
Current Eye Research

**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:****Projects Approved:**

- 2016-17 New approach of understanding *Brucella* pathogenesis using *Acanthamoeba* as a tool to evaluate the antibiotic resistance potential for vaccine development in Kingdom of Saudia Arabia. Deanship of Scientific Research, Majmaah University, Kingdom of Saudia Arabia (SAR: 79000) **PI**
- 2015-18 Screening of Pakistani medicinal plants for acetylcholine esterase inhibitory activity and their *in vitro* certification using human brain microvascular endothelial cells, HEC-NRPU (Rs: 18.39 million) **Co-PI**

**Projects Completed:**

- 2013-15 Fractionation and further characterization of crude extracts of *Peganum harmala*, *Melia azedarach* and *Ricinus communis* for anti-*Acanthamoeba* drug development
- 2013-15 Potential use of in house sol hydrothermally synthesized doped versus pure TiO<sub>2</sub> nanoparticles in drug delivery system to treat life threatening infections
- 2013-15 Isolation and identification of Free Living Amoeba from water resources of Pakistan
- 2012-14 Prevalence of *Acanthamoeba* in natural Environmental of Pakistan, PSF (Rs: 2.21 million) **PI**
- 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/annum)
- 2005-08 Pathogenesis of *Balamuthia* Amoebic Encephalitis  
Central Research Centre, London (£15000/annum)
- 2006-07 *Balamuthia mandrillaris* interactions with human microvascular endothelial cells  
Central Research Centre, London, (£7000/annum)
- 2001-03 Ethnobotanical studies of Northern areas of Pakistan  
Pakistan Science Foundation (£1685/annum)

**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**

*Associate Professor*

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
- Graduate Seminar

#### **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)

#### **Allama Iqbal Open University, Islamabad Pakistan**

*Lecturer*

2000-01 **FSc Courses:**

- Biology

### **Graduate and Undergraduate Supervision:**

#### **Department of Medical Lab Technology, University of Haripur, Khyber Pakhtunkhwa / University of Health Sciences, Lahore, Pakistan**

##### **MS Supervision**

In progress

2015-17 Mr. Muhammad Wasim – MS candidate, Molecular Pathology & Cytogenetics

2015-17 Mr. Muhammad Arsalan Gill – MS candidate, Molecular Pathology & Cytogenetics

Completed

2014-15 Miss. Moazzma – MS candidate, Nanomedicine

2014-15 Mr. Ajmal Seemab – MS candidate, Nanomedicine

In progress

2013-14 Miss. Sana Ahmed – MS candidate, Nanomedicine

#### **Department of Public Health, University of Haripur, Khyber Pakhtunkhwa**

##### **MS Supervision**

Completed

2014-15 Dr. Muhammad Ayaz  
Dr. Javed Khan  
Dr. Malik Iqbal  
Dr. Muraad Khan  
Dr. Sagheer Ahmed  
Dr. Saleem Khan  
Dr. Sherbahader  
Dr. Haroon Rashid  
Dr. Ihsan Ali

Dr. Uzair Noor  
Dr. Qazi Yasir Ahmed  
Dr. Sarfaraz Khan

### **Institute of Biomedical & Genetic Engineering, Islamabad**

Completed

#### **MS Supervision**

2012-13 Miss. Tania Tanveer – MS candidate, Microbial Genetics  
Miss. Abida Mushtaq – MS candidate, Microbial Ecology

2011-12 Mr. Hafiz Muhammad Shoaib – MS Candidate, Medical Microbiology  
Mr. Ammir Hamid – MS Candidate, Environmental Microbiology  
Mr. Shahid Hussain – MS candidate, Microbial Genetics

Completed

#### **BS Supervision**

2012-13 Miss. Sadaf Mushtaq – BS candidate, Microbial Genetics  
Miss. Khadija Barlas – BS candidate, Microbial Genetics

### **Birkbeck, University of London**

Completed

#### **MSc Research Supervision**

2008 Eleni Pavlopoulou  
Syed Razi Haider

#### **BSc Research Supervision**

2006 Rocio Castro  
Sarah

### **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: 95.672****Total Citation: 442****2016**

1. Imran, M., Muazzam, AG., Habib, A and **Matin, A.** Synthesis, characterization and amoebicidal potential of locally synthesized TiO<sub>2</sub> nanoparticles against pathogenic *Acanthamoeba trophozoites in vitro*. *Journal of Photochemistry & Photobiology B: Biology*. 159: 125-132 (IF: 2.96)
2. 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)

**2015**

3. 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)
4. 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)

**2014**

5. 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)
6. 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)
7. Kleeblatt D, Cordes CA, Lebreunz 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)
8. **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)

**2013**

9. 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 selenindirubins and selenindirubin-N-glycosides. *Organic & Biomolecular Chemistry*, 11(24):3963-3978. (IF: 3.696)
10. 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)
11. 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)
12. 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)

**2012**

13. 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)
14. 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)
15. **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)
16. **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)
17. Mehmood. K, Gul, N, Jung S-Y and **Matin. A.**, *Escherichia coli* K5 and type III secretion systems mutant interactions with *Acanthamoeba* (T4 genotype). *Advance Laboratory Medicine International*. 2(1): 31-39.

**2011**

18. **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)
19. **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)

**2009**

20. 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)

**2008**

21. **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)

**2007**

22. **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)
23. **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)
24. 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)
25. 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)

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26. **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)
27. **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)

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28. 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)
29. 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)

**2002**

30. **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.
31. **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.

**2001**

32. **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.

**Review Articles:****2008**

33. **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)

**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.

**International / National Invited Talks:**

1. *Peganum harmala* exhibit potent activity against *Acanthamoeba* adhesion and cytotoxicity to human corneal epithelial cells *in vitro*. . 3<sup>rd</sup> International Conference and Exhibition on Traditional and Alternative Medicine August 3-5 **2015** Birmingham, United Kingdom.

2. 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.
3. Prevalence of free-living amoebae in the environmental resources of Pakistan and its future potential threat to the public health across the country. 5<sup>th</sup> Annual Public Health Conference entitled “Universal Health Coverage: Issues & Challenges in Pakistan” December 11-12, **2014**. Organized by Health Services Academy, Islamabad.
4. 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.
5. Methanolic seed extracts of *Peganum harmala* exhibit potent activity against *Acanthamoeba castellanii* cysts and its encystment *in vitro*. 2<sup>nd</sup> International Conference and Exhibition on Traditional and Alternative Medicine August 25-26, **2014** Double Tree by Hilton, Beijing, China.
6. 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.
7. Effect of free versus functionalized carbon nanotubes on virulence characteristics of *Acanthamoeba castellanii* using human brain microvascular endothelial cells in vitro. 2<sup>nd</sup> International Conference on Nanotechnology in Medicine, Royal Free Hospital, University College London, London, UK (February 26-28, **2014**).
8. 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**)
9. Carbon nanotubes: a potential vehicle for drug delivery system. IIUI (April 03, **2013**)
10. Nanoparticles application in drug delivery system. SCME, NUST Islamabad (January 23, **2013**).
11. Functional roles of proteins in protozoal transversal of the blood-brain barrier to invade central nervous system. NIBGE Faisalabad. (June 19, **2012**).
12. Stem cell technology. 25<sup>th</sup> June 2012, COMSATS, University Abbottabad. Plenary lecture
13. *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*
14. Chronic microbial infections may lead to the cancer? The 11<sup>th</sup> 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*
15. Role of proteins in parasitic invasion during infection process. Institute of Biomedical and Genetic Engineering, Islamabad, Pakistan, March 17, **2010**. *Plenary lecture*
16. *Acanthamoeba castellanii*: High antibody prevalence in racially and ethnically diverse populations. XIII<sup>TH</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain, May, 17-21 **2009**.
17. Isolation of *Balamuthia mandrillaris*-specific antibodies from a bacteriophage antibody display library. XIII<sup>TH</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain, May 17-21 **2009**.
18. *Balamuthia* amoebic encephalitis: current status and future prospects. Institute of Biomedical and Genetic Engineering, Islamabad, Pakistan, October 5, **2008**. *Plenary lecture*
19. Increasing importance of *Balamuthia* amoebic encephalitis. Department of Microbiology, Quaid-i-Azam University, Islamabad, Pakistan, September 11, **2008**. *Plenary lecture*
20. *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*
21. *Balamuthia mandrillaris* traversal of the blood-brain barrier. XII<sup>th</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Wako City, Saitama Prefecture, Japan. 27-30 August **2007**. *Oral presentation*
22. Encystment in *Balamuthia mandrillaris*: a property that enhances resistance and/or recurrence of infection. XII<sup>th</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Wako City, Japan. August 27-30 **2007**. *Oral presentation*
23. *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*. 10<sup>th</sup> 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. 4<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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) 10<sup>th</sup> IBCAST-2013 Proceedings, Biomedical Sciences Module, vol. 1, page 11.
7. **Matin A**, Mehmood K, Ismail M and Jung S-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) 10<sup>th</sup> 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**) 10<sup>th</sup> 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. 11<sup>th</sup> 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. 11<sup>th</sup> 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. 17<sup>th</sup> 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*. 15<sup>th</sup> 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.
14. **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. 13<sup>th</sup> International Congress of Bacteriology & Applied Microbiology, Sapporo, Japan.

15. **Matin. A**, Nawaz. S, Ismail. M, and Jung S.R. (March 11-13, **2011**). Phospholipases activities assessment of the clinical and the environmental isolates of *Acanthamoeba*. 8<sup>th</sup> Annual Conference on infectious diseases (The age of superbugs: facts and solution", Margala Motel, Islamabad, Pakistan.
16. **Matin. A**, Nawaz. S, and Jung S.R. (January 04, **2011**). Carbon nanotubes: A potential drug delivery candidate for fatal brain infection treatment. University Industry Partnership (UIP), A country wide UIP symposia series by PASTIC and IRP.
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 11<sup>th</sup> Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Biomolecular Sciences in Development" University of Karachi. Pakistan.
18. **Matin. A**, Mehmood. K and Jung. S. R. (December 1-5, **2010**). Phospholipase activities in the clinical and the environmental isolates of *Acanthamoeba*. The 11<sup>th</sup> Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Biomolecular Sciences in Development" University of Karachi. Pakistan.
19. **Matin. A**, Mazhar. K. and Jung. S. R. (December 1-5, **2010**). Chronic microbial infections may lead to the cancer? The 11<sup>th</sup> Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Biomolecular Sciences in Development" University of Karachi. Pakistan.
20. **Matin. A**, Ismail M and Jung S.R. (7-10<sup>th</sup> October **2010**). The type III secretion system plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba castellanii* (T4 genotype). Exciting Biologies: Biology of Recognition, Sentosa Resort & Spa, on Sentosa Island, Singapore.
21. **Matin. A**, Jeong. S. R, and Khan. N. A. (15-20<sup>th</sup> August **2010**). The type III secretion system plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba castellanii* (T4 genotype). ICOPA-XII, 12<sup>th</sup> Conference on understanding the global impact of parasites – from genomes to function and disease, Melbourne, Australia.
22. Brindley. N, **Matin. A**, and Khan. N. A. (17-21 May **2009**). *Acanthamoeba castellanii*: High antibody prevalence in racially and ethnically diverse populations. XIII<sup>TH</sup> 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. XIII<sup>TH</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae Puerto de la Cruz, Tenerife, Spain.
24. **Matin. A**, and Khan. N. A. (November 10-13, **2008**). Increasing importance of *Balamuthia* amoebic encephalitis. International Symposium on Tropical Medicine and Hygiene, Karachi Pakistan.
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.
26. **Matin. A**, Stins. M, Kim. K. S, and Khan. N. A. (3-4 December **2007**) *Balamuthia mandrillaris* exhibit metalloprotease activities. Roberts@BBK-2007, Conference and Exhibition, a Postgraduate Research Showcase, Clore Management Centre, Birkbeck, University of London.
27. **Matin. A**, Jeong. S. R, Faull. J, and Khan. N. A. (3-4 December **2007**). Evaluation of prokaryotic and eukaryotic cells as food source for *Balamuthia mandrillaris*. Roberts@BBK-2007, Conference and Exhibition, a Postgraduate Research Showcase, Birkbeck, University of London.
28. **Matin. A**, Jeong. S. R, Kim. K. S, Stins. M, and Khan. N. A. (3-4 December **2007**). *Balamuthia mandrillaris* interactions with the human brain microvascular endothelial cells *in vitro*. Roberts@BBK-2007, Conference and Exhibition, a Postgraduate Research Showcase, Birkbeck, university of London.
29. **Matin. A**, Jeong. S. R, Stins. M, and Khan. N. A. (3-4 December **2007**). Effects of human serum on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells. Roberts@BBK-2007, Conference and Exhibition, a Postgraduate Research Showcase, Birkbeck, University of London.
30. **Matin. A**, Stins. M, and Khan. N. A. (27-30 August **2007**). *Balamuthia mandrillaris* traversal of the blood-brain barrier. XII<sup>th</sup> International Meeting on Biology & Pathogenicity of Free-living Amoebae, Japan.
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. XII<sup>th</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Wako City, Japan.
32. **Matin. A**, Stins. M, Kim. K. S, and Khan. N. A. (28<sup>th</sup> February **2007**). *Balamuthia mandrillaris* transmigration of the blood-brain barrier. Special Announcement and Calls for Abstracts Meeting for Clinical Scientists in Training, Royal College of Physicians, London, UK.
33. **Matin. A**, Jeong. S. R, Faull. J, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Evaluation of prokaryotic and eukaryotic cells as food source for *Balamuthia mandrillaris*. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.

34. **Matin. A**, Jeong. S. R, Kim. K. S, Stins. M, and Khan. N. A. (6-11<sup>th</sup> August **2006**). *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells *in vitro*. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
35. **Matin. A**, Jeong. S. R, Stins. M, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Effects of human serum on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
36. Jeong. S, Alsam. S, **Matin. A**, Kim. K. S, Castillo. K, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Parasite-parasite interactions: who is the beneficiary in *Escherichia coli* interactions with *Acanthamoeba*? ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
37. Jeong. S, **Matin. A**, Stins. M, Kim. K. S, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Role of mannose-binding protein in the pathogenesis of *Acanthamoeba* ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
38. Jeong. S, **Matin. A**, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Phospholipases in *Acanthamoeba*: properties and potential role in amoeba pathogenesis. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
39. **Matin. A**, Stins. M, Kim. K. S, and Khan. N. A. (12-14 September, **2005**). *Balamuthia mandrillaris* exhibit metalloprotease activities. 157<sup>th</sup> SGM Conference, Keele University, United Kingdom.
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, 2<sup>nd</sup> 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". 25<sup>th</sup> National and 13<sup>th</sup> 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. 24<sup>th</sup> 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 TiO<sub>2</sub> nanoparticles against pathogenic *Acanthamoeba in vitro*. 2<sup>nd</sup> 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. 4<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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. 11<sup>th</sup> 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. 11<sup>th</sup> 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.
12. **Matin, A.**, Nawaz. S, Ismail. M, and Jung S.R. (March 11-13, **2011**). Phospholipases activities assessment of the clinical and the environmental isolates of *Acanthamoeba*. 8<sup>th</sup> Annual Conference on infectious diseases (The age of superbugs: facts and solution", Margala Motel, Islamabad, Pakistan.
13. **Matin, A.**, Nawaz. S, and Jung S.R. (January 04, **2011**). Carbon nanotubes: A potential drug delivery candidate for fatal brain infection treatment. University Industry Partnership (UIP), A country wide UIP symposia series by PASTIC and IRP.
14. **Matin, A.**, Haider R, Ismail M and Jung S.R. (1-5<sup>th</sup> December, **2010**). The type III secretion system plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba castellanii* (T4 genotype). The 11<sup>th</sup> Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Biomolecular Sciences in Development" University of Karachi. Pakistan.
15. **Matin, A.**, Mehmood. K and Jung. S. R. (1-5<sup>th</sup> December, **2010**). Phospholipase activities in the clinical and the environmental isolates of *Acanthamoeba*. The 11<sup>th</sup> Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Biomolecular Sciences in Development" University of Karachi. Pakistan.
16. **Matin, A.**, Ismail M and Jung S.R. (7-10<sup>th</sup> October **2010**). The type III secretion system plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba castellanii* (T4 genotype). Exciting Biologies: Biology of Recognition, Sentosa Resort & Spa, on Sentosa Island, Singapore.
17. **Matin, A.**, Jeong. S. R, and Khan. N. A. (15-20<sup>th</sup> August **2010**). The type III secretion system plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba castellanii* (T4 genotype). ICOPA-XII, 12<sup>th</sup> Conference on understanding the global impact of parasites – from genomes to function and disease, Melbourne, Australia.
18. **Matin, A.**, Jeong. S. R, Stins. M, and Khan. N. A. (15<sup>th</sup> February **2007**). Effects of human serum on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells. 16<sup>th</sup> Meeting London Vascular Biology Forum, King's College London, UK.
19. **Matin, A.**, Jeong. S. R, Faull. J, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Evaluation of prokaryotic and eukaryotic cells as food source for *Balamuthia mandrillaris*. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
20. **Matin, A.**, Jeong. S. R, Kim. K. S, Stins. M, and Khan. N. A. (6-11<sup>th</sup> August **2006**). *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells *in vitro*. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
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22. Jeong. S, Alsam. S, **Matin, A.**, Kim. K. S, Castillo. K, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Parasite-parasite interactions: who is the beneficiary in *Escherichia coli* interactions with *Acanthamoeba*? ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
23. Jeong. S, **Matin, A.**, Stins. M, Kim. K. S, and Khan. N. A. (6-11<sup>th</sup> August **2006**). Role of mannose-binding protein in the pathogenesis of *Acanthamoeba* ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
24. Jeong. S, **Matin, A.**, and Khan. N. A. (6 – 11<sup>th</sup> August **2006**). Phospholipases in *Acanthamoeba*: properties and potential role in amoeba pathogenesis. ICOPA – XI 11<sup>th</sup> International Congress of Parasitology SECC, Glasgow, Scotland.
25. **Matin, A.**, Stins. M, Kim. K. S, and Khan. N. A. (September 12-14, **2005**). *Balamuthia mandrillaris* exhibit metalloprotease activities. 157<sup>th</sup> Society for General Microbiology Conference, Keele University, UK.
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. XI<sup>th</sup> 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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29. Dudley. R, **Matin. A**, Alsam. S, Sissons. J, Maghsood. A. H, and Khan. N. A. (April 4-7, **2005**). *Acanthamoeba* cysts: characteristics and functional properties. 156<sup>th</sup> Society for General Microbiology Conference, Edinburgh, Scotland, UK.
30. **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, 2<sup>nd</sup> meeting of the European Association for Forensic Entomology London, UK.

## 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 19<sup>th</sup> 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](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)  
Page # 4
- **Pakistan Student awarded in UK**  
The Post (May 2007)  
Page # 2, Column # 1

## 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)