

Naveed Ahmed Khan, BSc, MSc, PhD

Education

1991-1993	BSc (First Class), Zakariya University, Pakistan
1994-1996	MSc in Applied Biology, Birkbeck, University of London, England, UK
1997-1999	PhD (Biochemistry/Molecular & Cell Biology), University of Hull, England, UK

Posts held

2021 – present	Professor, Clinical Sciences, College of Medicine, University of Sharjah
2019 – 2021	Professor and Head, Department of Biology, Chemistry and Environmental Sciences, American University of Sharjah
2015 – 2019	Distinguished Professor and Head, Department of Biological Sciences, Sunway University
2010 – 2015	Professor and Chair, Department of Biological and Biomedical Sciences, Aga Khan University
2008 – 2010	Associate Professor of Molecular Microbiology, University of Nottingham
2002 – 2008	Senior Lecturer in Microbiology, Birkbeck, Univ. of London, England, UK
2000 – 2002	Senior Postdoctoral Research Fellow, Johns Hopkins Univ. SoM, USA
1999 – 2000	Postdoctoral Research Fellow, Tufts University School of Medicine, Boston, USA

Memberships: American Chemical Society; European Society of Clinical Microbiology and Infectious Diseases Society for General Microbiology, American Society of Microbiology.

Research student supervision: 15 PhD projects (completed), 40 MS projects (completed), >100 UG projects (completed).

Awards: Based on my research, I received Hull Royal Infirmary, UK award in 1998; Schwentker award for Best Research by Johns Hopkins University in 2002; Kut Foundation, UK award in 2007; prestigious ‘Best Research Scholar Award’ by the Govt. of Pakistan in 2013; Gold Medal by Zoological Society of Pakistan in 2014. In 2014, I was selected among the top 10 productive scientists in Pakistan in Biological Sciences (selected from 2,728 productive Scientists). In 2015, I received the prestigious ‘Pakistan Academy of Sciences’ Gold Medal Award. In 2016, I received Silver Medals by Ministry of Science, Technology & Innovation, Malaysia. I received Gold Medal in Bio-Innovation award, and Research Excellence Award in Pharma-Innovation at Pharma+Bio Asia 2016 Convention. I was awarded the title of “Distinguished Professor” of the University in 2016. I received the “Order of Merit” award at the Korea Inventor Award Festival – 2016 in Seol, Korea. In 2017, I received silver medals at 28th International Invention, Innovation and Technology Exhibition, Malaysia. In 2018, I was invited as keynote speaker at ICBMS 2018 in Thailand, ICBMB 2018 Malaysia and ICOPA 2018 in Korea and selected as Asian Council of Science Editors. In 2020, I was selected among the top 2% of the world community of scientists. In 2020, I forged links and won a major research funding award from the US Office of Aerospace and Research and Development. My work has been highlighted consistently in the media. In particular, my work on “animals living in polluted environments could be rich stores of new antibiotics” caught worldwide attention. Google search of "Naveed Khan and Cockroach" yields thousands of web pages.

Teaching: Originated PhD in Biological Sciences & BSc Biomedicine at Sunway University. I have developed and taught 3 BSc/MSc programmes, 6 UG and 3 PG courses at the University of London, University of Nottingham, Aga Khan University and Sunway University and written several books to promote teaching and learning activities.

Abstracts and Invited Seminars: >150 research work presented at National and International conferences

Books (7 books and several book chapters)

1. Siddiqui, R., Ali, I. K., Cope, J., Khan, N. A. (2016). Brain-eating amoebae: Biology and Pathogenesis of *Naegleria fowleri*. Caister Academic Press, UK, 250pp. ISBN: 978-1-910190-53-1.
2. Khan, N. A. (2015). *Acanthamoeba: Biology and Pathogenesis*. Second Edition, Caister Academic Press, Linton, Cambs, UK, 344pp. ISBN: 978-1-908230-50-8.
3. Khan, N. A. (2013). *Essentials of Medical Microbiology*. Progressive International Publishers, 264. ISBN: 978-969-9412-01-1.
4. Elsheikha, H., and Khan, N. A. (2011). *Essentials of Veterinary Parasitology*. Caister Academic Press, Linton, Cambs, UK, 230pp. ISBN: 978-1-904455-79-0; 978-1-904455-80-6.
5. Khan, N. A. (2009). *Acanthamoeba: Biology and Pathogenesis*. Caister Academic Press, Linton, Cambs, UK, 290pp. ISBN: 978-1-904455-43-1.
6. Khan, N. A. (2008). *Microbial Pathogens and Human Diseases*. Taylor & Francis, 280pp. ISBN: 978-1-5788-535-4.

Publications (Total = 294) – representative few are shown below.

1. Siddiqui, R., Akbar, N., Khan, N. A. (2020). Gut microbiome and human health under the space environment. *Journal of Applied Microbiology* 130(1):14-24. PMID: 32692438; doi: 10.1111/jam.14789. IF = 3.3.
2. Elsheikha, H. M., Siddiqui, R., Khan, N. A. (2020). Drug discovery against *Acanthamoeba* infections: present knowledge and unmet needs. *Pathogens* 9(5): E405. PMID: 32456110; doi: 10.3390/pathogens9050405. IF = 3.4.;
3. Anwar, A., Mungroo, M. R., Khan, S., Fatima, I., Rafique, R., Kanwal, Khan, K. M., Siddiqui, R., Khan, N. A. (2020). Novel azoles as antiparasitic remedies against brain-eating amoebae. *Antibiotics* 9(4): E188. PMID: 32316387; doi: 10.3390/antibiotics9040188. IF = 2.92;
4. Mungroo, M. R., Shahbaz, M. S., Anwar, A., Saad, S. M., Khan, K. M., Khan, N. A., Siddiqui, R. (2020). Aryl Quinazolinone derivatives as novel therapeutic agents against brain-eating amoebae. *ACS Chemical Neurosciences* 11(16):2438-2449. PMID: 31961126; doi: 10.1021/acscchemneuro.9b00596. IF = 4.4.
5. Anwar, A., Siddiqui, R., Khan, N. A. (2019). Galactose as novel target against *Acanthamoeba* cysts. *PLoS NTD* (in press): IF = 4.36
6. Akbar, N., Siddiqui, R., Sagathevan, K. A., Khan, N. A. (2019). Gut bacteria of animals/pests living in polluted environments are a potential source of antibacterials. *Applied Microbiology and Biotechnology* (in press): IF = 3.34
7. Rajendran, K., Anwar, A., Khan, N. A., Shah, M. R., Siddiqui, R. (2019). trans-Cinnamic acid conjugated gold nanoparticles as potent therapeutics against brain-eating amoeba *Naegleria fowleri*. *ACS Chemical Neuroscience* (in press). IF = 4.21
8. Siddiqui, R., Roberts, S., Ong, T. Y. Y., Mungroo, M. R., Anwar, A., Khan, N. A. (2019). Ion channels in sensory perception in *Acanthamoeba*. *Parasites and Vectors* (in press): IF = 3.43
9. Mukheem, A., Shahabuddin, S., Akbar, N., Miskon, A. B., Sarih, N. M., Sudesh, K., Khan, N. A., Saidur, R., Sridewi, N. (2019). Boron Nitride doped Polyhydroxyalkanoate/Chitosan Nanocomposite for Antibacterial and Biological Applications. *Nanomaterials* (in press): IF = 3.8
10. Mungroo, M. R., Anwar, A., Khan, N. A., Siddiqui, R. (2019). Brain-eating amoebae infection: challenges and opportunities in chemotherapy. *Mini-Reviews in Medicinal Chemistry* (in press). IF = 2.9
11. Anwar, A., Rajendran, K., Siddiqui, R., Shah, M. R., Khan, N. A. (2019). Clinically-approved drugs against CNS diseases as potential therapeutic agents to target brain-eating amoebae. *ACS Chemical Neuroscience* 10(1): 658 - 666. IF = 4.21
12. Rajendran, K., Anwar, A., Khan, N. A., Aslam, Z., Shah, M. R., Siddiqui, R. (2019). Oleic acid coated silver nanoparticles showed better in vitro amoebicidal effects against *Naegleria fowleri* than Amphotericin B. *ACS Chemical Neuroscience* (in press). IF = 4.21
13. Anwar, A., Minhaz, A., Hussain, S. S., Anwar, A., Simjee, S. U., Ishaq, M., Khan, N. A., Shah, M. R. (2019). Pyrazinium thioacetate capped gold nanoparticles as Fe(III) sensor and Fe(III) marked anti-proliferating agent in human neuroblastoma cells. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 206: 135 - 140. IF = 2.89
14. Anwar, A., Siddiqui, R., Khan, N. A. (2019). Importance of theranostics in rare brain-eating amoebae infections. *ACS Chemical Neuroscience* 10(1): 6 - 12. IF = 4.21
15. Anwar, A., Masri, A., Rao, K., Rajendran, K., Khan, N. A., Shah, M. R., Siddiqui, R. (2019). Antimicrobial activities of green synthesized gums-stabilized nanoparticles loaded with flavonoids. *Nature Scientific Reports* 9(1): 3122; pp: 1 - 12. IF = 4.12
16. Anwar, A., Siddiqui, R., Shah, M. R., Khan, N. A. (2018). Gold nanoparticle conjugated Cinnamic acid exhibit Antiacanthamoebic and antibacterial properties. *Antimicrobial Agents and Chemotherapy* 62(9): 1 - 7. IF = 4.3
17. Masri, A., Anwar, A., Ahmed, D., Siddiqui, R., Shah, M. R., Khan, N. A. (2018). Silver nanoparticle conjugation enhanced antibacterial efficacy of clinically-approved drugs Cephadrine and Vildagliptin. *Antibiotics* 7(4). E100. <https://www.ncbi.nlm.nih.gov/pubmed/30445704> IF = 2.94
18. Khan, N. A., Anwar, A., Siddiqui, R. (2018). *Acanthamoeba* keratitis: current status and urgent research priorities. *Current Medicinal Chemistry* 25: 1 - 13. IF = 3.85
19. Anwar, A., Khalid, S., Perveen, S., Ahmed, S., Siddiqui, R., Khan, N. A., Shah, M. R. (2018). Synthesis of 4-(Dimethylamino)pyridine propylthioacetate coated Gold nanoparticles and their antibacterial and photophysical activity. *Journal of Nanobiotechnology* 16(1). e6. IF = 5.3