

Dr. Syed Kashif Haleem

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Faculty of Health Sciences
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PERSONAL INFORMATION

Last Name: Haleem
Fore Names: Syed Kashif
Nationality: Pakistani
Date of Birth: 29-07-1984
Place of birth: Mansehra, Pakistan
Postal Address: Department of Microbiology, Hazara University,
Mansehra, Pakistan.

RESEARCH INTERSETS

To study various aspects of the interaction of host response against different infectious microorganisms with the emphasis on complement system in fighting these pathogens, aiming to explore the potential of several complement components as therapeutics.

RESEARCH ACHIEVEMENTS

I successfully investigated the protective role of the lectin pathway recognition molecule, ficolin-A, in fighting pneumococcal infection, and demonstrated the therapeutic potential of this molecule in fighting pneumococcal infection using a mouse model of *Streptococcus pneumoniae* during my PhD. In another project, I described the therapeutic potential of properdin, an alternative pathway molecule, along with my colleagues at the University of Leicester. Los Angeles times covered this success in a story published on March 24, 2014.

<http://www.latimes.com/science/sciencenow/la-sci-sn-immune-system-resistant-infection-20140324-story.html>

EXPERIENCE

Assistant Professor (BPS-19) | **Hazara University**

Jan 2016 – Till date

Responsibility: Teaching and Research

Lecturer (BPS-18) | **Hazara University**

May 2007 – Jan 2016

Responsibility: Teaching and Research

ADDITIONAL EXPERIENCE

Head of Microbiology Department | **Hazara University**

March 2018 – September 2018

September 2019 – till date

Responsibility: Administrative responsibilities to run and look after all the affairs of Microbiology Department

Research Technician | **University of Leicester (UK)**

Jan 2012 – June 2012

Responsibility: Worked on MRC funded project at the Department of Infection & Immunity University of Leicester

Demonstrator | **University of Leicester (UK)**

December 2008 – April 2012

Responsibility: Practical Demonstrator to under-graduate students at the Department of Infection, Immunity & Inflammation, University of Leicester

EDUCATION

University of Leicester (UK)

2012

PhD (Infection and Immunity)

Title: Role of the lectin pathway recognition molecule ficolin-A in fighting pneumococcal infection

Hazara University

2005

BSc Hons (Microbiology)

A Grade

BISE Abbottabad

2001

FSc (Pre Med) A Grade

BISE Abbottabad

1999

SSC

A Grade

PUBLICATIONS

Total Impact Factor = 40.86

Number of Citations = 181

PUBLISHED PAPERS

- 1) Ali, Y. M., Lynch, N. J., **Haleem, K. S.**, Fujita, T., Endo, Y., Hansen, S., Holmskov, U., Takahashi, K., Stahl, G. L., Dudler, T., Giriya, U. V., Wallis, R., Kadioglu, A., Stover, C. M., Andrew, P. W. & Schwaebler, W. J. (2012). The lectin pathway of complement activation is a critical component of the innate immune response to pneumococcal infection. *PLoS Pathog*, 8 (7), e1002793. (IF 6.18)
- 2) Ali, Y. M., Hayat, A., Saeed, B. M., **Haleem, K. S.**, Alshamrani, S., Kenawy, H. I., Ferreira, V. P., Saggu, G., Buchberger, A., Lachmann, P. J., Sim, R. B., Goundis, D., Andrew, P. W., Lynch, N. J. & Schwaebler, W. J. (2014). Low-dose recombinant properdin provides substantial protection against *Streptococcus pneumoniae* and *Neisseria meningitidis* infection. *Proc Natl Acad Sci U S A*, 111, 5301-6. (IF 9.50)
- 3) Hussain, W., **Haleem, K. S.**, Khan, I., Tauseef, I., Qayyum, S., Ahmed, B., & Riaz, M. N. (2017). Medicinal plants: a repository of antiviral metabolites. *Future Virology*, 12(6), 299-308 . doi:10.2217/fvl-2016-0110 (IF 1.12)
- 4) Abid, O. u. R., Khatoon, G., Arfan, M., Sajid, I., Langer, P., Rehman, W., . . . **Haleem, K. S.** (2017). Synthesis of Hydrazones from Amino Acids and their Antimicrobial and Cytotoxic Activities. *Journal of the Chinese Chemical Society*, 64 (9), 1079-1087 doi:10.1002/jccs.201600859 (IF 0.86)
- 5) Akhtar, K., Shah, S. W. A., Shah, A. A., Shoaib, M., **Haleem, S. K.**, & Sultana, N. (2017). Pharmacological effect of *Rubus ulmifolius* Schott as antihyperglycemic and antihyperlipidemic on streptozotocin (STZ)-induced albino mice. *Applied Biological Chemistry*, 60(4), 411-418. doi: 10.1007/s13765-017-0293-9 . (IF 1.36)
- 6) Khan, I., Qayyum, S., Ahmed, S., **Haleem, K. S.**, Liu, G.-L., & Zhen-Ming, C. (2017). Isolation and Characterization of Medicinally Important Marine *Penicillium* Isolates. *Pakistan Journal of Zoology*, 49(2), 435-441. doi: 10.17582/journal.pjz/2017.49.2.435.441 (IF 0.54)

- 7) Khan, I., Qayyum, S., Ahmed, S., Maqbool, F., Tauseef, I., **Haleem, K. S.**, & Chi, Z. M. (2017). Cloning and characterization of pyruvate carboxylase gene responsible for calcium malate overproduction in *Penicillium viticola* 152 and its expression analysis. 605, 81-91 *Gene*. doi:10.1016/j.gene.2016.12.036 (2.49)
- 8) Khan, A.Q., **Haleem, S.K.**, Shafiq, M., Khan, N.A., Rahman, S. (2017) Seropositivity of brucellosis in human and livestock in Tribal-Kurram agency of Pakistan indicates cross circulation. *Thai Journal of Veterinary Medicine*, 47 (3), 349-355 (IF 0.27)
- 9) Akbar, S., **Haleem, S.K.**, Hussain, W., Tauseef, I., Ali, N., Hasan, M. (2017) Raphanus Sativus Mediated Synthesis, Characterization and Biological Evaluation of Zinc Oxide Nanoparticles. *Nanoscience and Nanotechnology letters*, 9(12), 2005-2012 doi: 10.1166/nnl.2017.2550 (IF 2.9)
- 10) Ali, A., Sultan, T., Subhan, F., **Haleem, K.S.**, and Tauseef, I. (2017) PGPRs of Plum (*Prunus domestica*) rhizosphere enhance the growth through health promoting and disease suppression activities. *Acta Agriculturae Scandinavica, Section B - Plant Soil Science*, 68(4), 367-378 doi: 10.1080/09064710.2017.1410565 (IF: 0.89).
- 11) Subhan, F., Shahzad, R.2, Tauseef, I., **Haleem, K.S.**, Rehman, A., Mahmood, S. and Lee, I. (2018) Isolation, identification, and pathological effects of beach sand bacterial extract on human skin keratinocytes *in vitro*. *Peer J*, 6, e4245; DOI 10.7717/peerj.4245 (IF 2.1)
- 12) Khan, A., Tauseef, I., Bibi, A., Khan, M.A., Akbar, S., Sultana, N., **Haleem, K.S.** (2018) Age-related Variations in the *in vitro* Bactericidal Activity of Human Sera against *Pseudomonas aeruginosa*. *Central European Journal of Immunology*, (43)1, 18-25 doi: 10.5114/ceji.2018.74869 (IF 1.78)
- 13) Ali, H., Tauseef, I., **Haleem, S.K.**, Ullah, I., Shah, A.B., Khattak, M.N.K., Mahmood, S., Khan, M.F., Rashid, A. and Rehman, A.U. (2018). Prevalence of gastrointestinal nematodes in equines of Bajaur and Mohmand agencies, North-West Pakistan. *JAPS, Journal of Animal and Plant Sciences*, 28(3), 695-701. (0.40)
- 14) Shah, P.T., Ali, F., Qayyum, S., Ahmed, S., **Haleem, K.S.**, Tauseef, I., Hayat, A.H., Malik, A.A., Ramzan, R. and Khan, I. (2018). Scorpion venom: A poison or a medicine-mini review. *Indian Journal of Geo Marine Sciences*, 47 (4), 773-778 (IF 0.28)
- 15) Khan, S., Subhan, F., **Haleem, K.S.**, Khattak, M.N.K., Sultana, N., Sultan, T. and Tauseef, I. (2018) Impact of plant growth-promoting rhizobacteria on yield and disease control of *Nicotiana tabacum*. *Archives of biological sciences* 70(4): 717-725 (IF 0.64)
- 16) **Haleem, K.S.**, Ali, Y.M., Yesilkaya, H., Kohler, T., Hammerschmidt, S., Andrew, P. W., Schwaebler, W.J., Lynch, N.J. (2019) The pneumococcal

surface proteins PspA and PspC sequester host C4 binding protein to inactivate complement C4b on the bacterial surface. *Infection and Immunity* 87:e00742-18. DOI: 10.1128/IAI.00742-18 (IF 3.25)

- 17) Khan, I., Aftab, M., Shakir, S., Ali, M., Qayyum, S., Rehman, M. U., **Haleem, K. S.** & Touseef, I. (2019). Mycoremediation of heavy metal (Cd and Cr)-polluted soil through indigenous metallotolerant fungal isolates. *Environ Monit Assess*, 191(9), 585. doi:10.1007/s10661-019-7769-5 (IF 1.9)
- 18) Maqbool, F., Kamal, R., Bhatti, Z. A., Pervez, S., Sajid, M., Haleem, K. & Faridullah (2019). Effects of hydrocarbon degrading inoculum for carwash effluent treatment in a UASB reactor. *DESALINATION AND WATER TREATMENT*, 164, 31-38. DOI: 10.5004/dwt.2019.24396 (IF 1.38)
- 19) Khan, I., Ali, M., Aftab, M., Shakir, S., Qayyum, S., Haleem, K. S. & Tauseef, I. (2019). Mycoremediation: a treatment for heavy metal-polluted soil using indigenous metallotolerant fungi. *Environ Monit Assess*, 191, 622. DOI: 10.1007/s10661-019-7769-5 (IF 1.9)
- 20) Aziz, S., Yaseen, L., Jamal, A., Farooq, U., Qureshi, Z., Tauseef, I., Haleem, S. K. & Ali, M. I. (2020). Fabrication of Biochar from Organic Wastes and its Effect on Wheat Growth and Soil Microflora. *Polish Journal of Environmental Studies*, 29. DOI: 10.15244/pjoes/99825 (IF 1.12)

RESEARCH PROJECT WON

Awarded a research project worth Rs. **5.2M** (35000\$) titled “Age-related variations in the activation of complement system against *Pseudomonas aeruginosa*” under National Research Program for Universities by Higher Education Commission of Pakistan.

SUPERVISION

- Supervised 44 M. Phil students, who have completed their degree till 2018.
- Currently supervising 5 M. Phil and 2 PhD student.

TEACHING SUBJECTS

- Advances in Immunology (M. Phil/PhD)
- Molecular mechanism of Disease (M. Phil/PhD)
- Immunology II (BS)
- Immunology I (BS)

ABSTRACTS SUBMITTED TO CONFERENCES AND WORKSHOPS

Haleem KS, Ali YM, Lynch NJ, Andrew PW and Schwaeble WJ, 2011. Role of the lectin pathway recognition molecule ficolin-A in fighting

pneumococcal infections. *British Society for Allergy and Clinical Immunology Annual Meeting*, July 11th -13th , 2011.

SPECIALIST TRAINING

- Personal License holder for Animal Research after completing Personal License Training Module 1-3 at University of Leicester UK from May 19, 2008 to May 20, 2008
- Attended special training program on 'Laboratory Safety' at University of Leicester, UK. October 03, 2008 covering following modules:
 - I. Safety management & risk assessment
 - II. Biological & chemical hazards
 - III. Radiation Safety
 - IV. Genetic Modification

CONFERENCES / WORKSHOPS / SEMINARS ORGANIZED AND ATTENDED

- Attended/organized (Coordinator) **Second National Conference on 'Current approaches in Microbiology'** held at Nathiagali (Pakistan) on June 27th -28th, 2013.
- Attended British Society for Allergy and Clinical Immunology (BCACI) Annual Meeting, East Midlands Conference Centre Nottingham (UK), July 11th -13th , 2011
- Organized a training workshop on **"Biosafety Training in KPK with a Skill Based Approach"** at Hazara University Mansehra on 16-18 November 2016.
- Organized a workshop on **"Advances in Phage Therapy"** at Hazara University Mansehra on 4-5 April 2017.
- Organized a seminar on **"World Malaria Day #End Malaria for Good"** at Hazara University Mansehra on 4-5 April 2018.
- Organized a seminar on **"Importance of Blood Grouping and Construction of Database of Blood Donors"** at Hazara University Mansehra on 22 November 2017.

PROFESSIONAL TRAINING MODULES / WORKSHOPS ATTENDED

- Attended workshop on 'Advanced database searching & bibliographic software: use of ENDNOTE', University of Leicester, UK. March 16, 2010.
- Attended workshop on 'General Presentation Skills' at University of Leicester, UK on February 22, 2010.
- Attended workshop on 'Off to a conference? Posters preparation and presentation' at University of Leicester, UK. February 02, 2010.
- Attended workshop on 'Experimental design & practical statistics' at University of Leicester, UK, January 26, 2010.

- Attended workshop on 'Writing up your research for publication' at University of Leicester. UK, January 18, 2010.
- Attended workshop on 'Giving research seminars and conference talks' at University of Leicester, UK. January 09, 2010.
- Attended workshop on 'Creativity and Problem Solving' at University of Leicester, UK. December 14, 2009.
- Attended training module on 'Use of MS Word for Long Documents' at University of Leicester, UK. March 11, 2009.
- Attended workshop on 'Advanced Database Searching; Bibliographic software & keeping up to date; use of REFWORKS for Biomedical scientists' at University of Leicester, UK. March 10, 2009.
- Attended workshop on 'Working with others: team work and leadership' at University of Leicester, UK. February 26, 2009.
- Attended training module on 'Improving Power Point Presentations' at University of Leicester, UK. February 12, 2009.
- Attended training program on 'Giving Research Seminars & Conference Talks' at University of Leicester, UK. 11 Feb, 2009.
- Attended training program on 'Demonstrating and teaching skills' at University of Leicester, UK. January 29, 2009.
- Special training module on 'Radiation Safety' at University of Leicester, UK. Jan 21, 2009.
- Attended training program on 'DNA sequencing & genomics: science & services' at University of Leicester, UK. November 27, 2008
- Attended workshop/training module on 'DNA Bioinformatics: ULTRA introduction; databases and GCG software' at University of Leicester, UK. November 20, 2008.
- Attended workshop/training module on 'Advanced Database Searching; Bibliographic software & keeping up to date; use of REFWORKS for Biomedical scientists' at University of Leicester, UK. November 11, 2008.
- Attended workshop/training module on 'Use of MS-Word for long documents' at University of Leicester, UK. November 06, 2008.
- Attended workshop on 'Critical appraisal & study skills' at University of Leicester, UK. October 30, 2008.
- Special training module on 'Planning & managing your doctorate; personal development planning' at University of Leicester, UK. October 17, 2008.
- Attended PG special training program on 'Basic e-library skills' at University of Leicester, UK. October 06, 2008.
- Attended workshop on 'Research Governance & Ethical Approval (Session II)' at University of Leicester, UK. May 01, 2008.
- Attended workshop on 'Research Governance & Ethical Approval' at University of Leicester, UK. April 30, 2008.

- Attended workshop on 'Ethical & legal issues in Research' at University of Leicester, UK. April 29, 2008.

LABORATORY WORK EXPERTISE

- Experience in infection study using mouse model.
- ELISA
- PCR
- RT-PCR
- FACS
- Phagocytosis and serum bactericidal assays
- Biochemical identification techniques for microorganisms

COMPUTER SKILLS

- GraphPad Prism
- Endnote
- MS Office
- Expertise in all Microsoft Operating Systems

REFERENCES

Prof. Dr. Wilhelm Schwaeble

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Cambridge, CB3 0ES, UK
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Dr. Mohammed Youssif Ali

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