

NAME	Samia Qassim Alghamdi
NATIONALITY	Saudi
CONTACT ADDRESS	Al-Baha University Faculty of Science, Department of Biology Al-Baha Saudi Arabia Mobile: +966 (0) 509333922 E.mail: sqassim@bu.edu.sa
CURRENT POSITION	Associate Professor, Department of Biology, Faculty of Science, Al-Baha University, Al- Baha, Saudi Arabia

ACADEMIC CAREER

Degree	Specialization	Institution	Year
Ph.D.	Medical Parasitology	Faculty of health and life science (Affiliated to the University of Liverpool, Liverpool, UK.	2019
M.Sc.	Parasitology and arthropods	College: girls education college, science departments, King Abdul-Aziz University, Jeddah, KSA.	2009
B.Sc.	Zoology	College: girls education college, Science Departments, Al-Baha, KSA.	2003

RESEARCH INTEREST

My research interests are on Rodent mite, fleas and tick-borne disease in Saudi Arabia, and investigating the relationship between bacterial pathogens and symbionts in ticks, fleas and chigger mites.

WORK EXPERIENCE:

2024	Chairman of the Family Affairs Committee, Al-Baha Region, Emart Baha
2024	Member of the Board of directors of Al-Baha Creativity and Excellence Award
2024	Vice President of Umam wildlife and wildlife Society
2022-2023	Member of Al-Baha Creativity and Excellence Award, Al-Baha city
2022-2023	Supervising the research of talented female students in Al Baha region
2022-2023	Member of institute of Studies and consulting services Al-Baha University
2021	A member in the 33 rd meeting of Saudi Biological Society: Sustainable Development conference in Al-Baha Region held on 9-11 March 2021.
2020-2024	Provided training courses for graduates of Al Baha University in the Biology Department
2020 to date	Member of the Egyptian Society for Parasitology, Egypt
2020 to date	Member of Jodah as coordinator in females section at Faculty of Science, Department of Biology Al-Baha University.
2020 to date	Member of Saudi Society for Clinical Laboratory Sciences
2019	Participation in the Meet Scientists event held at the world museum Liverpool, UK.
2019 to date	.Member of the British Society for Parasitology (BSP), UK
2018	Collaborative research visit to Naturelle in Paris at Museum National d'Histoire required training in the life cycle tropical rat mite, Paris.
2016-2019	Practical Demonstrator at Faculty of health and life science, University of Liverpool, Liverpool, UK.
2016-2017	Field work at Muhayil Asir and Abha for PhD research collecting ectoparasites from Rodents from Mountains and agricultures.
2009 to date	Lecturer at faculty of Science at Al-Baha University, KSA.

2008-2009	Assistant teaching at faculty of Science at Al-Baha University, KSA.
2007-2008	Assistant teaching in girl's education college, 2007-2008, Baljurashi for 6 months.
2006-2008	Teaching at zoology Laboratory for 3 years at college: girls education college, science departments, King Abdul-Aziz University, Jeddah, KSA.

PUBLICATIONS

1. **Samia Q Alghamdi**, NF Alotaibi, Sameera N Al-Ghamdi, Laila S Alqarni, Touseef Amna, Shaima MN Moustafa, Ibrahim Hotan Alsohaimi, IA Alruwaili & AM Nassar (2024) High Antiparasitic and Antimicrobial Performance of Biosynthesized NiO Nanoparticles via Wasted Olive Leaf.
2. **Alghamdi, S.Q., 2024**. Prevalence of tick infestation and molecular characterization of tick species of camels (*Camelus dromedarius*) from Al-Baha South Saudi Arabia. *Journal of Umm Al-Qura University for Applied Sciences*, pp.1-11.
3. **Alghamdi, S.Q., 2024**. Morphological and molecular characterization of *Dermanyssus gallinae* (Acari: Gamasida: Dermanyssidae) isolates of Al-Baha province. *Open veterinary journal*, 14(7), pp.1568-1576.
4. **Samia Q. Alghamdi** and Fatehia N. Gharsan., 2024. First Report of Isolation of Two Endosymbiotic Symbiosis Bacteria " *Arsenophonus arthropodicus* and *Wolbachia*" from *Pseudolynchia canariensis* (Diptera: Hippoboscidae) Infesting Pigeons (in press).
5. Alotaibi, N.F., Alqarni, L.S., **Alghamdi, S.Q.**, Al-Ghamdi, S.N., Amna, T., Alzahrani, S.S., Moustafa, S.M., Hasanin, T.H. and Nassar, A.M., 2024. Green Synthesis of Uncoated and Olive Leaf Extract-Coated Silver Nanoparticles: Sunlight Photocatalytic, Antiparasitic, and Antifungal Activities. *International Journal of Molecular Sciences*, 25(6), p.3082
6. Alkathiry, H.A., **Alghamdi, S.Q.**, Sinha, A., Margos, G., Stekolnikov, A.A., Alagaili, A.N., Darby, A.C., Makepeace, B.L. and Khoo, J.J., 2024. Microbiome and mitogenomics of the chigger mite *Pentidionis agamae*: Potential role as an Orientia vector and associations with divergent clades of *Wolbachia* and *Borrelia*.
7. Ghafar, A., **Alghamdi, S.Q.**, Alanazi, A.D., Qousain, S.M.Z., Ijaz, M., Naeem, M., Ali, M., Muqaddas, H., Khan, A. and Iqbal, F., 2024. Molecular prevalence of vector borne bacterial pathogens in the blood samples of wild rodent species trapped from Saudi

Arabia. Comparative Immunology, Microbiology and Infectious Diseases, 106, p.102129.
8. Gharsan, F.N. and Alghamdi, S.Q. , 2024. First report of the morphological and molecular characterization of <i>Pseudolynchia canariensis</i> (Diptera: Hippoboscidae) from Al-Baha region, Saudi Arabia. <i>Veterinary Parasitology: Regional Studies and Reports</i> , p.100999.
9. Alghamdi, M.D., Alshahrani, A.A., Alqarni, L.S., Alghamdi, S.Q. , Moustafa, S.M. and Nassar, A.M., 2024. Green approaches in synthesis of surfactants. In <i>Surfactant Based Electrochemical Sensors and Biosensors</i> (pp. 21-68). Elsevier.
10. Alghamdi, S.Q. , Alkathiry, H.A., Stekolnikov, A.A., Alagaili, A.N. and Makepeace, B.L., 2023. Additions to the <i>chigger mite</i> fauna (Acariformes: Trombiculidae) of Saudi Arabia, with the description of a new species. <i>Acarologia</i> , 63(1), pp.3-23.
11. Alkathiry, H.A., Alghamdi, S.Q. , Morgan, H.E., Noll, M.E., Khoo, J.J., Alagaili, A.N. and Makepeace, B.L., 2023. Molecular detection of <i>Candidatus Orientia chuto</i> in wildlife, Saudi Arabia. <i>Emerging Infectious Diseases</i> , 29(2), p.402.
12. Elmahallawy, E.K., Köster, P.C., Dashti, A., Alghamdi, S.Q. , Saleh, A., Gareh, A., Alrashdi, B.M., Hernández-Castro, C., Bailo, B., Lokman, M.S. and Hassanen, E.A., 2023. Molecular detection and characterization of <i>Cryptosporidium spp.</i> , <i>Giardia duodenalis</i> , and <i>Enterocytozoon bieneusi</i> infections in <i>Dromedary camels</i> (<i>Camelus dromedaries</i>) in Egypt. <i>Frontiers in Veterinary Science</i> , 10, p.1139388.
13. Metwally, D.M., Al-Turaiki, I.M., Altwaijry, N., Alghamdi, S.Q. and Alanazi, A.D., 2021. Molecular Identification of <i>Trypanosoma evansi</i> Isolated from Arabian Camels (<i>Camelus dromedarius</i>) in Riyadh and Al-Qassim, Saudi Arabia. <i>Animals</i> , 11(4), p.1149.
14. Alghamdi, S.Q. , Low, V.L., Alkathiry, H.A., Alagaili, A.N., McGarry, J.W. and Makepeace, B.L., 2021. Automatic barcode gap discovery reveals diverse clades of <i>Rhipicephalus spp.</i> and <i>Haemaphysalis spp.</i> ticks from small mammals in Asir, Saudi Arabia.
15. Rahman, M., Rahaman, M., Islam, M., Rahman, F., Mithi, F.M., Alqahtani, T., Almikhlaifi, M.A., Alghamdi, S.Q. , Alruwaili, A.S., Hossain, M. and Ahmed, M., 2022. Role of Phenolic Compounds in Human Disease: Current Knowledge and Future Prospects. <i>Molecules</i> , 27(1), p.233.

<p>16. Khan, S.A., Mahyoub, J.A., Al-Ghamdi, K.M., Alghamdi, S.Q., Alghamdi, T.S. and Gharsan, F.N., 2021. Assessment of Conventional Insecticides Against Common Bed Bugs <i>Cimex Hemipterus</i> (Hemiptera: Cimicidae) in Jeddah Province, Saudi Arabia. <i>Biosciences Biotechnology Research Asia</i>, 18(4), pp.757-765.</p>
<p>17. Alghamdi, S., 2019. <i>The vector biology and microbiome of parasitic mites and other ectoparasites of rodents</i> (Doctoral dissertation, University of Liverpool).</p>
<p>18. Stekolnikov, A.A., Al-Ghamdi, S.Q., Alagaili, A.N. and Makepeace, B.L., (2019). First data on chigger mites (Acariformes: Trombiculidae) of Saudi Arabia, with a description of four new species. <i>Systematic and Applied Acarology</i>, 24(10), pp.1937-1963.</p>
<p>19. Alghamdi, S.Q., Alagaili, A.N., Stekolnikov, A.A., McGarry, J.W., Darby, A.C. and Makepeace, B.L., 2019, September. The Vector Biology of Ectoparasites on Rodents from the 'Asir Region of Saudi Arabia. In <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> (Vol. 113, pp. S100-S100). GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND: OXFORD UNIV PRESS. (conference paper).</p>
<p>PRESENTATION AT SCIENTIFIC MEETINGS & CONFERENCES</p>
<p>ORAL PRESENTATION</p>
<p>1- Anti-external parasites of ticks (<i>Hyalomma dromedarii</i>) in camels activity via greenly synthesized NiO Nanoparticles Presented at the International Conference and Exhibition -for Science (ICES2023), held in Riyadh, Saudi Arabia, on February 06-08, 2023.</p>
<p>2-The 33rd meeting of Saudi Biological Society: Sustainable Development conference in Albaha Region held on 9-11 March 2021.</p>
<p>3- Diverse bacterial symbionts and pathogens in multiple clades of <i>Rhipicephalus</i> and <i>Haemaphysalis</i> ticks from rodents in Asir, Saudi Arabia. Presented in the Vector-Borne Disease Conference, 2020 Online session: Vector/Pathogen/Endosymbiont Interactions as speaker: 16th November 2020 at the University of Liverpool, UK.</p>
<p>4-The vector biology and microbiome of parasitic mites and other ectoparasites of rodents. Presented at the British Society for Parasitology BSP meeting Invited as speaker: spring meeting 15th -18th April 2019, held at the University of Manchester, UK</p>
<p>5-The Vector Biology of Rodent ectoparasites, presented in Derby suite of the foundation building, held at the University of Liverpool, 23rd Nov 2016.</p>
<p>POSTER PRESENTATION</p>

1- Biosynthesis, characterization, antiparasitic, and antimicrobial activities of NiO-NP using olive leaf extract Presented at the College of Science, Jouf University, January 29-31, 2023
2-The vector biology and microbiome of parasitic mites and other ectoparasites of rodents. Presented at the royal society of tropical medicine and Hygien Northumberland House, 17 th -21 st Sep 2019, Liverpool, UK.
3-The vector biology and microbiome of parasitic mites and other ectoparasites of rodents. Presented at the British Society for Parasitology BSP meeting Invited as speaker: spring meeting 15th -18th April 2019, held at the University of Manchester, UK
4-The First Investigation of Chigger Mite Diversity on Rodents from the 'Asir Region of Saudi Arabia. Presented at the British Society for Parasitology BSP meeting: spring meeting 8 th -11 th April 2018, Aberystwyth University, Wales, UK.
5-Chigger mite diversity on rodents from the Asir region of Saudi Arabia. Presented at Vector-Borne Disease Foresight Centre, at the University of Liverpool, 29 th -30 th , 2016, UK

TECHNICAL EXPERTISE:

DNA extraction.
Gel-electrophoresis.
Molecular Tools: Conventional Polymerase Chain reaction (PCR), Polymerase Chain reaction (RT-PCR), DNA cloning, and Nested-PCR techniques.
Bioinformatics tools: The Basic Local Alignment Search Tool (BLAST), GenBank, alignment and assembly of DNA.
Purification of DNA.
Oxford Nanopore sequencing on the MinION Sequencing and Genome.
Analyses the 16S rRNA microbiome profile by using Quantitative Insights into Microbial Ecology (QIIME) software package, QIIME 2.

WORKSHOP and TRAINING PROGRAMS:

2024	Attended training course titled "School Evaluation Specialist (General)" Held From 21/08/2024 to 20/08/2024 45 Training hours -Attendance
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	and OnLine. The Education and Training Evaluation, Represented by The National Academy for Evaluation.
2023	Attended online workshop titled: Genome-wide Differential gene expression analysis using Linux operating system and R Programming language on Tuesday 14/February 2023 at the University of Tabuk, KSA.
2021	Attended the Diagnosis of Vector Borne Disease Webinar on Tuesday, July 27, 2021.
2020	Attended course of the higher education academy in recognition of attainment against the "UK Professional Standards Framework" for teaching and learning support in higher education and achieved Associate fellow of the higher education academy at the University of Liverpool, UK.
2020	Attended online course entitled BioBanking Essentials dated on September 30, 2020, at King Fahad Medical City, KSA.
2019	Attended the course R for the beginners for 3 days at university of Liverpool, UK.
2018	Attended Workshop Metagenetic analysis of bacterial communities at university of Liverpool, UK.
2018	Attended workshop entitled the seven secrets of highly successful research students at university of Liverpool, UK.
2018	Attended workshop entitled how to promote your research on the web at university of Liverpool, UK.
2017	Attended the training session for an invigilation induction at University of Liverpool, UK.
2016	Attended workshop about the development needs analysis and supervisor development at the University of Liverpool, UK.
2016	Attended the Beginners? Guide to Public Engagement Training session at the University of Liverpool, UK.
2016	Attended Blastocystis in post-traumatic splenectomized patient at the University of Liverpool, UK.

2016	Attended Demonstrating and Laboratory -Based Practical Teaching for Graduate Teaching Assistants at the University of Liverpool, UK
2016	Attended Statistical Course for one week at the University of Liverpool, UK.
2016	Attended a Managing Biosafety in the Laboratory at the University of Liverpool, UK.
2016	Attended Interdisciplinary Conferences workshop (Health and Life Sciences) at the University of Liverpool, UK.
2016	Attended workshop s about Introduction to Professional Development for Researchers (HLS) at the University of Liverpool, UK.
2015	Attended Delivering Academic Presentations workshop at the University of Liverpool, UK
2015	Attended the Safety for Research Students induction in SR5 Management School at the University of Liverpool, UK.
2008	Attended Workshop " E-learning and its tools" at Albaha University, KSA
2008	Training program "scholarship preparation" at Albaha University, KSA.
2008	Attended Workshop "Fourth Academic Production Forum" at faculty of Science at Albaha University, KSA

LANGUAGES:

Arabic: speaking/reading/writing (native language)
English: speaking/reading/writing