

TURKI M. S. ALDAWOU

ASSOCIATE PROFESSOR | BOTANY AND MICROBIOLOGY DEPARTMENT
SCIENCE COLLEGE, KING SAUD UNIVERSITY

P. O. BOX 2455, RIYADH 114511
+966-11-464679835
+966-535727827

+966-11-4675833

dturki@gmail.com

tdawoud@ksu.edu.sa

Science College, King Saud University

EDUCATION



Ph.D., Cell & Molecular Biology,
University of Arkansas,
Fayetteville, Arkansas, USA.

Dissertation Title: "Phenotypic and
Functional Genomics Analyses of Salmonella
for Food Safety Applications".



M.Sc., Biological Sciences (Microbial Genetics),
University of Arkansas,
Fayetteville, Arkansas, USA.



B.Sc. Microbiology,
King Saud University,
Riyadh, Saudi Arabia.

WORK HISTORY :

Professional & Academic Appointments:

- Undergraduate student research project, Laboratory of Dr Ali Bahkali, Department of Botany & Microbiology, King Saud University, Riyadh, Saudi Arabia.
- Teaching assistant, Department of Botany & Microbiology, King Saud University, Riyadh, Saudi Arabia.
- International student, Spring International language center, University of Arkansas, Fayetteville, Arkansas, USA.
- Graduate student (master degree), Dr David M. Ivey Laboratory, Biological Sciences Department, University of Arkansas, Fayetteville, Arkansas, USA.
- Graduate students research organizer, Department of Botany & Microbiology, King Saud University, Riyadh, Saudi Arabia (December 2006- December 2007).
- Graduate student (Ph.D. degree), Dr Young Min Kwon Laboratory, Cell & Molecular Biology Program, University of Arkansas, Fayetteville, Arkansas, USA (Spring 2008-Fall 2014).
- Member of Food Safety Center, University of Arkansas, Fayetteville, Arkansas, USA (Spring 2008-Fall 2014).
- Assistant Professor, Botany & Microbiology Department, Science College, King Saud University, Riyadh, Saudi Arabia (May 2015 – October 2022).
- Associate Professor, Botany & Microbiology Department, Science College, King Saud University, Riyadh, Saudi Arabia (October 2022 - Present).
- Member of the Council of Botany and Microbiology Department, Faculty of Science, King Saud University (May 2015 – Present).
- Member of the Higher Committee of Botany and Microbiology Department (September 2016 – May 2017).
- Member of the representative of the Department of Botany and Microbiology in the budget committee of the College of Science, King Saud University (January – May 2016).
- Director of the Central Laboratory of Botany and Microbiology Department (September 2016 – May 2017).
- Member of the Committee of Study Plans and Equations in Botany and Microbiology Department, Faculty of Science, King Saud University.
- Member of the Academic Guidance Committee for Students, Botany and Microbiology Department, Faculty of Science, King Saud University.
- Head of the committee to discuss the graduate research project for students of the Department of Botany and Microbiology, Faculty of Science, King Saud University (September 2016 – May 2020).
- Head of Alumni, Training and Community Partnership Committees, Department of Botany and Microbiology, College of Science, King Saud University (September 2016 – May 2017).
- Head of Alumni and Human Resources Committee, Department of Botany and Microbiology, Faculty of Science, King Saud University (September 2016 – May 2017).

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WORK HISTORY :

- **Professional & Academic Appointments:**
- Member of the Technical Licensing Committee, Knowledge Ecosystem, The Vice Rectorate for Graduate Studies and Scientific Research, King Saud University (October 2016 – September 2017).
- Arbitrator for Microbiology Program, Program Transformation at Taif University (28 – 30 May, 2017).
- Head of Microbiology Unit, Botany and Microbiology Department, Faculty of Science, King Saud University (September 2017 – May 2020).
- Chairman of Botany and Microbiology Department, Faculty of Science, King Saud University (June 2020 – July 2024).
- **Training Courses:**
- Course Design in Active Classrooms, Deanship of Skills Development, King Saud University.
- Classroom Management in Active Learning, Deanship of Skills Development, King Saud University.
- Lessons from Cognitive Sciences, Deanship of Skills Development, King Saud University.
- Design and Construction of the Curriculum, Deanship of Skills Development, King Saud University.
- Effective University Teaching Skills, Deanship of Skills Development, King Saud University.
- Mini Teaching, Deanship of Skills Development, King Saud University.
- Managing Safely Training Program, Institution of Occupational Safety and Health (IOSH), Deanship of Skills Development, King Saud University.

ANNUAL CONFERENCES/ MEETINGS (POSTERS)

- The 109th American Society of Microbiology Annual General Meeting, Philadelphia, PA. May 17-21, 2009.
- The 113th American Society of Microbiology Annual General Meeting, Denver, CO. May 18-21, 2013.
- The 5th Annual Arkansas Association for Food Protection (AAFP), Fayetteville AR. September 10-11, 2013.
- The Annual Meeting of International Association of Food Protection (IAFP), Indianapolis, IN. Aug. 3-6, 2014.

ORAL PRESENTATION:

- Heat Survival and Phenotype Microarray Profiling of *Salmonella enterica* serovar Typhimurium Mutants. The 22nd Annual Meeting of the South Central Branch of the American Society of Microbiology (SCB-ASM). Fayetteville, AR. September 11-13, 2014.
- Microbiome Functional Cloning. Part of the workshop "Recombinant DNA Technology (Gene Cloning)", organized by Students' Training Unit at Botany and Microbiology Department, Science College, King Saud University. 11 October 2018.

PROFESSIONAL & ACADEMIC HONORS AND AWARDS:.....

- Graduate Studies Scholarship from King Saud University.
- Students Travel Grants, 113th General Meeting, American Society of Microbiology (ASM), Denver, Colorado, USA. (May 18-21, 2013).

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KEY SKILLS :

• **Technical and Specialized Skills Summary:**

- Basic bacteria experimentation techniques (culture, isolation, and stock preparation of bacteria), electro-competent cells preparation.
- Restriction digestion analysis.
- PCR, DNA-Based Approaches, and Primers Design.
- Plasmid and Genomic DNA Extractions.
- Transformation, DNA Recombination.
- Gel electrophoresis and DNA gel extraction (Agarose and PAGE gels).
- Molecular Cloning, Gene Expression, Protein Purification.
- SDS-PAGE Gel Electrophoresis, Western Blotting.
- Site-Directed Mutagenesis, Transposon Mutagenesis, Mutant library preparation.
- Sample preparation for Next Generation Sequencing (NGS).
- Genome-Wide High-Throughput Screening for Vaccine and Drug Candidate Targets. .

COMMUNITY SERVICES:

- Saudi Students Club President, University of Arkansas, Fayetteville, Arkansas, USA. (March 2012-September 2013).
- Arabic/English interpreter for new Arabic speaker students, Fayetteville Schools District, Fayetteville, Arkansas, USA.
- Active international Arabic student with international admission office, University of Arkansas, Fayetteville, Arkansas, USA.
- Active international member in helping out Saudi students and their families with International Students & Scholars Office (ISS), University of Arkansas, Fayetteville, Arkansas, USA.
- Active member in helping out Saudi students with issues associated with their scholarship, University of Arkansas, Fayetteville, Arkansas, USA.

RESEARCH INTERESTS:

General Interest:

- Biotechnology/ Nanotechnology
- Microbial Genetics and Genomics.
- Microbial Diagnostics (Detection and Identification).
- Applied Microbiology, Food Microbiology, and Water Microbiology
- Microbial Ecology (Microbiota/ Probiotics).
- Environmental Microbiology (aquatic and soil).
- Industrial Microbiology.
- Bio-remediation/ Bio-degradation.

Specific Interest:

- Bacterial Pathogenesis and Virulence Factors.
- Antibiotics/ Antimicrobial Resistance (AMR).
- Microbial Stress Adaptation
- Food-borne, Water-borne, Environmental and Zoonotic infections.
- Molecular Analysis of Bacterial Pathogens (Functional Genomics).
- Phage Therapy and Research related studies

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PUBLICATIONS:

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🌐 **ResearchGate:** https://www.researchgate.net/profile/Turki_Dawoud/research

- **Dawoud**, T., P. Herrera, I. Hanning, Y.M. Kwon, and S.C. Ricke. 2011. In vitro invasion of laying hen ovarian follicles by *Salmonella* Enteritidis strains. *Poultry Sci.* 90: 1134-1137.
- Khatiwara, A., T. Jiang, S.-S. Sung, T. **Dawoud**, J.N. Kim, D. Bhattacharya, H.-B. Kim, S. C. Ricke, and Y.M. Kwon. 2012. Genome scanning for conditionally essential genes in *Salmonella*. *Appl. Environ. Microbiol.* 78: 3098-3107.
- **Dawoud**, T., T. Jiang, R. K. Mandal, S.C. Ricke, and Y.M. Kwon. 2014. Improving the efficiency of transposon mutagenesis in *Salmonella* Enteritidis by overcoming host-restriction barriers. *Molecular Biotechnol.* 56: 1004-1010.
- Nathan A. Jarvis, Corliss A. O'Bryan, Turki M. **Dawoud**, Si Hong Park, Young Min Kwon, Philip G. Crandall, Steven C. Ricke. 2016. An overview of *Salmonella* thermal destruction during food processing and preparation, *Food Control*, Volume 68, Pages 280-290.
- Abdullah A. Al-Arfaj, Mohamed S. Ali, Ashgan M. Hessain, Adel M. Zakri, Turki M. **Dawoud**, Khalid S. Al-Maary, Ihab M. Moussa. 2016. Phenotypic and genotypic analysis of pathogenic *Escherichia coli* virulence genes recovered from Riyadh, Saudi Arabia, *Saudi Journal of Biological Sciences*, Volume 23, Issue 6, Pages 713-717
- Mohamed, Moussa I., Al-Maary, Khalid S., **Dawoud**, Turki M., Mubarak, Ayman S., Hessain, Ashgan M., Mohamed, Kh. F. 2016. Production and Evaluation of the Immuno-protective Efficacy of the Immunoglobulins IgY-antibodies Prepared Against Infectious Bursal Disease. *International Journal of Pharmacology.* 12 (7): 749-753.
- **Dawoud**, T.M., A. Khatiwari, S.H. Park, M.L. Davis, C.A. Baker, S.C. Ricke, and Y.M. Kwon. 2017. Heat survival and phenotype microarray profiling of *Salmonella Typhimurium* mutants. *Curr. Microbiol.* 74:257-267.
- Al-Maary, KS; **Dawoud**, TM; Mubarak, AS; Hessain, AM; Galal, HM; Kabli, SA; Mohamed, MI. 2017. Molecular characterization of the capsular antigens of *Pasteurella multocida* isolates using multiplex PCR. *Saudi Journal of Biological Sciences.* 24 (2): 367-370.
- **Dawoud**, Turki M., Morgan L. Davis, Si Hong Park, Sun Ae Kim, Young Min Kwon, Nathan Jarvis, Corliss A. O'Bryan, Zhaohao Shi, Philip G. Crandall, Steven C. Ricke. 2017. The potential link between thermal resistance and virulence in *Salmonella*: A review, *Frontiers in Veterinary Science (Veterinary Infectious Diseases)*, 4, 93. Available: <https://doi.org/10.3389/fvets.2017.00093>
- Yassin, MA; El-Samawaty, AMA; **Dawoud**, TM; Abd-Elkader, OH; Al Maary, KS; Hatamleh, AA; Elgorban, AM. 2017. Characterization and anti-*Aspergillus flavus* impact of nanoparticles synthesized by *Penicillium citrinum*. *Saudi Journal of Biological Sciences.* 24 (6): 1243-1248.
- Osman KM, Al-Maary KS, Mubarak AS, **Dawoud** TM, Moussa IM, Ibrahim MD, Hessain AM, Orabi A, Fawzy NM. 2017. Characterization and susceptibility of streptococci and enterococci isolated from Nile tilapia (*Oreochromis niloticus*) showing septicaemia in aquaculture and wild sites in Egypt. *BMC Veterinary Research.* (1): 357
- Ashraf A. Mostafa, Abdulaziz A. Al-Askar, Khalid S. Almaary, Turki M. **Dawoud**, Essam N. Sholkamy, Marwah M. Bakri. 2018. Antimicrobial activity of some plant extracts against bacterial strains causing food poisoning diseases, *Saudi Journal of Biological Sciences*, Volume 25, Issue 2, Pages 361-366.
- Osman KM, Kappell AD, Elhadidy M, ElMougy F, El-Ghany WA, Orabi A, Mubarak AS, Dawoud TM, Hemeg HA, Moussa IM, Hessain AM. 2018. Poultry hatcheries as potential reservoirs for antimicrobial-resistant *Escherichia coli*: A risk to public health and food safety. *Scientific reports.* 8 (1): 5859.

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PUBLICATIONS:

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🌐 **ResearchGate:** https://www.researchgate.net/profile/Turki_Dawoud/research

- Osman Kamelia M, Anthony D Kappell, Fatma ElHofy, Ahmed Orabi, Ayman S Mubarak, Turki M **Dawoud**, Ihab MI Moussa, and Ashgan M Hessain. 2018. Urinary tract infection attributed to Escherichia coli isolated from participants attending an unorganized gathering. Future Microbiology, 13:7, 757-769.
- Osman, K. M., Kappell, A. D., Orabi, A., Al-Maary, K. S., Mubarak, A. S., **Dawoud**, T. M., Hemeg, H. A., Moussa, I. M., Hessain, A. M., Yousef, H. M. and K. R. Hristova. 2018. Poultry and beef meat as potential seedbeds for antimicrobial resistant enterotoxigenic Bacillus species: a materializing epidemiological and potential severe health hazard. Scientific reports, 8 (1), 1-15.
- Anju VT, Parasuraman Paramanatham, Sruthil Lal SB, Alok Sharan, Marzouq H. Alsaedi, Turki M.S. **Dawoud**, Syed Asad, Siddhardha Busi. 2018. Antimicrobial photodynamic activity of rose bengal conjugated v multi walled carbon nanotubes against planktonic cells and biofilm of Escherichia coli, Photodiagnosis and Photodynamic Therapy, Volume 24, pp. 300-310, ISSN 1572-1000.
- Parasuraman P, Anju VT, Sruthil Lal SB, Sharan A, Busi S, Kaviyarasu K, Arshad M, **Dawoud** TMS, Syed A. 2019. Synthesis and antimicrobial photodynamic effect of methylene blue conjugated carbon nanotubes on E. coli and S. aureus. Photochemical & Photobiological Sciences, 18(2), 563-576.
- Hussien, H; Elbehiry, A; Saad, M; Hadad, G; Moussa, I; **Dawoud**, T; Mubarak, A; Marzouk, E. 2019. Molecular characterization of Escherichia coli isolated from cheese and biocontrol of Shiga toxigenic E. coli with essential oils. Italian Journal of Food Safety, 8 (3): 162-167.
- Haq, IU; Qasim, M; Rahim, K; Ameen, F; **Dawoud**, T; Basit, A; Munir, S; Alshehrei, F. 2019. Efficacy of The Spider Web Metabolites Activity Against Multi Drug Resistance (MDR) Bacteria. Applied Ecology and Environmental Research, 17 (5): 10899-10908.
- Parasuraman, P; Antony, AP; Lal, SBS; Sharan, A; Siddhardha, B; Kasinathan, K; Bahkali, NA; **Dawoud**, TMS; Syed, A. 2019. Antimicrobial photodynamic activity of toluidine blue encapsulated in mesoporous silica nanoparticles against Pseudomonas aeruginosa and Staphylococcus aureus. Biofouling, 35 (1): 89-103.
- Mohammed, SAM; Marouf, SAM; Erfana, AM; El-Jakee, JKAH; Hessain, AM; **Dawoud**, TM; Kabli, SA; Moussa, IM. 2019. Risk factors associated with E. coli causing neonatal calf diarrhea. Saudi Journal of Biological Sciences, 26 (5): 1084-1088.
- Ameen, F; Srinivasan, P; Selvankumar, T; Kamala-Kannan, S; Al Nadhari, S; Almansob, A; **Dawoud**, T; Govarthanan, M. 2019. Phytosynthesis of silver nanoparticles using Mangifera indica flower extract as bioreductant and their broad-spectrum antibacterial activity. Bioorganic Chemistry, 88:102970. <https://doi.org/10.1016/j.bioorg.2019.102970>.
- Marouf, S; Moussa, IM; Salem, H; Sedeik, M; Elbestawy, A; Hemeg, HA; **Dawoud**, TM; Mubarak, AS; Mahmoud, H; Alsubki, RA; Bahkali, AH. 2020. A picture of Mycoplasma gallisepticum and Mycoplasma synoviae in poultry in Egypt: Phenotypic and genotypic characterization. Journal of King Saud University – Science, 32 (3): 2263-2268.
- **Dawoud** TM, Alharbi NS, Theruvinthalakal AM, Thekkangil A, Kadaikunnan S, Khaled JM, Almanaa TN, Sankar K, Innasimuthu GM, Alanzi KF, Rajaram SK. Characterization and antifungal activity of the yellow pigment produced by a Bacillus sp. DBS4 isolated from the lichen Dirinaria agealita. Saudi J Biol Sci. 2020 May;27(5):1403-1411. doi: 10.1016/j.sjbs.2019.11.031.

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PUBLICATIONS:

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🌐 **ResearchGate:** https://www.researchgate.net/profile/Turki_Dawoud/research

- **Dawoud** TMS, Syed A, Maurya AK, Ahmad SS, Rabbani Q, Alyousef AA, Alqasim A, Arshad M, Khan MS, Khalid M, Khan H, Daglia M. Incidence and antimicrobial profile of extended-spectrum β -lactamase producing gram-negative bacterial isolates: An in-vitro and statistical analysis. *J Infect Public Health*. 2020 Nov;13(11):1729-1733. doi: 10.1016/j.jiph.2020.06.026.
- Hemeg HA, Moussa IM, Ibrahim S, **Dawoud** TM, Alhaji JH, Mubarak AS, Kabli SA, Alsubki RA, Tawfik AM, Marouf SA. Antimicrobial effect of different herbal plant extracts against different microbial population. *Saudi J Biol Sci*. 2020 Dec;27(12):3221-3227. doi: 10.1016/j.sjbs.2020.08.015.
- Elbehiry A, Marzouk E, Moussa IM, **Dawoud** TM, Mubarak AS, Al-Sarar D, Alsubki RA, Alhaji JH, Hamada M, Abalkhail A, A Hemeg H, Zahran RN. *Acinetobacter baumannii* as a community foodborne pathogen: Peptide mass fingerprinting analysis, genotypic of biofilm formation and phenotypic pattern of antimicrobial resistance. *Saudi J Biol Sci*. 2021 Jan;28(1):1158-1166. doi: 10.1016/j.sjbs.2020.11.052.
- Ahmed R. Elbestawy, Hany F. Ellakany, Hatem S. Abd El-Hamid, Madiha S. Ibrahim, Ahmed R. Gado, Nagwa S. Mustafa, Ihab M. Moussa, Khalid S. Al-Maary, Dalia S. Al-Sarar, Hanan O. Alshammari, **Turki M. Dawoud**, Hassan A. Hemeg, Hussein M. Galal, Comparative evaluation of a live *E. coli* vaccine and cefotaxime treatment against three *E. coli* serotypes in broilers, *Journal of King Saud University - Science*, Volume 33, Issue 2, 2021, 101353.
- Balasubramanian B, Benit N, Agastian P, Almaary KS, **Dawoud** TM, Elbadawi YB, Mubarak A, Alfadul MS, Aljowaie RM. Carbapenemases producing *Klebsiella pneumoniae* from the pus of hospitalized patients: In-vitro antibiotic properties of *Streptomyces* against multidrug resistant infectious bacteria. *J Infect Public Health*. 2021 Jul;14(7):892-897. doi: 10.1016/j.jiph.2021.05.006.
- Ihab M. Moussa, Jakeen Eljakee, Mariam Beder, Kareem Abdelaziz, Ayman S. Mubarak, **Turki M. Dawoud**, Hassan A. Hemeg, Roua A. Alsubki, Saleh A. Kabli, Sherif Marouf, Zoonotic risk and public health hazards of companion animals in the transmission of *Helicobacter* species, *Journal of King Saud University - Science*, Volume 33, Issue 6, 2021, 101494.
- Momina Javaid, Hawa Qasim, Farwa Naseem, Muhammad Essa, Muhammad Amjad Bashir, Netasha Nazar, Ahmad Abbas, **Turki M. Dawoud**, Lariab Fatima, Rizwan Asghar, Muhammad Yaseen, Anam Ibrahim, Wajahat AliKhan, Shujaat Ali Khan, Role of X-ray equipment and ultrasound machines as possible vectors of nosocomial bacteria in the community, *Journal of King Saud University - Science*, Volume 34, Issue 6, 2022, 102154.
- Sarfraz MH, Zubair M, Aslam B, Ashraf A, Siddique MH, Hayat S, Cruz JN, Muzammil S, Khurshid M, Sarfraz MF, Hashem A, **Dawoud** TM, Avila-Quezada GD, Abd Allah EF. Comparative analysis of phyto-fabricated chitosan, copper oxide, and chitosan-based CuO nanoparticles: antibacterial potential against *Acinetobacter baumannii* isolates and anticancer activity against HepG2 cell lines. *Front Microbiol*. 2023 May 31;14:1188743. doi: 10.3389/fmicb.2023.1188743.
- Rehman, A., Saeed, A., Asad, W. et al. Eco-friendly textile desizing with indigenously produced amylase from *Bacillus cereus* AS2. *Sci Rep* 13, 11991 (2023). <https://doi.org/10.1038/s41598-023-38956-3>.
- Umar, M., Rehman, A., Khan, I., Hayat, P., Hayat, A., Rehman, M., Shah, T., **Dawoud**, T., Hadrach, S. and Bourhia, M. (2023) Screening and optimization of extracellular pectinase produced by *Bacillus thuringiensis* SH7. *Open Chemistry*, Vol. 21 (Issue 1), pp. 20220358. <https://doi.org/10.1515/chem-2022-0358>.

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🌐 **ResearchGate:** https://www.researchgate.net/profile/Turki_Dawoud/research

- Banawas, S.S.; Alobaidi, A.S.; **Dawoud**, T.M.; AlDehaimi, A.; Alsubaie, F.M.; Abdel-Hadi, A.; Manikandan, P. Prevalence of Multidrug-Resistant Bacteria in Healthcare-Associated Bloodstream Infections at Hospitals in Riyadh, Saudi Arabia. *Pathogens* 2023, 12, 1075. <https://doi.org/10.3390/pathogens12091075>.
- Albuqami, S.A.; **Dawoud**, T.M.; Moussa, I.M.; Elbehiry, A.; Alsubki, R.A.; Hemeg, H.A.; Qattan, M.Y.; Alhaji, J.H. The Molecular Detection and Antimicrobial Profiles of Selected Bacterial Pathogens in Slaughterhouses in Riyadh City, Saudi Arabia. *Appl. Sci.* 2023, 13, 13037. <https://doi.org/10.3390/app132413037>.
- Mahmud MS, Hosen MA, Hossion MI, Sadik Sabuj MS, Rumi NA, Hossain MK, Dauelbait M, Nafidi HA, **Dawoud** TM, Ibrahim M, Bourhia M. Isolation, identification, and characterization of resistant bacteria to antibiotics from pharmaceutical effluent and study of their antibiotic resistance. *Front Microbiol.* 2023 Dec 27;14:1307291. doi: 10.3389/fmicb.2023.1307291.
- Mannan SJ, Akash S, Jahin SA, Saqif AT, Begum K, Yasmin M, Ahsan CR, Sitotaw B, **Dawoud** TM, Nafidi HA, Bourhia M. Occurrence and characterization of β -lactamase-producing bacteria in biomedical wastewater and in silico enhancement of antibiotic efficacy. *Front Microbiol.* 2024 Jan 8;14:1292597. doi: 10.3389/fmicb.2023.1292597.
- M. Rashid, N. Sajjad, N. Shafiq, S. Parveen, R. A. Khan, A. Farooq, M. Shahab, T. M. **Dawoud**, S. Brogi, M. Bourhia, *Chemistry Select* 2024, 9, e202303642. <https://doi.org/10.1002/slct.202303642>
- v Majeed T, Lee CC, Orts WJ, Tabassum R, Shah TA, Jordan YAB, **Dawoud** TM, Bourhia M. Characterization of a thermostable protease from *Bacillus subtilis* BSP strain. *BMC Biotechnol.* 2024 Jul 15;24(1):49. doi: 10.1186/s12896-024-00870-5.
- Rehman A, Saeed A, Asad W, Khan I, Rehman M, Hayat A, et al.. Optimisation of experimental variables for extracellular amylase production by *Bacillus cereus* AS2. *Czech J. Food Sci.* 2024;42(4):225-234. doi: 10.17221/193/2023-CJFS.
- **Dawoud**, T. M., T. Jiang, S. H. Park, C. Baker, S. C. Ricke., and Y. M. Kwon. Genome-wide Identification of *Salmonella Typhimurium* Genes Essential for Cold Temperature Survival on a Chicken Carcass Using a Tn-seq Method. (In preparation).

BOOK CHAPTERS:

- Ricke, S.C., T.M. **Dawoud**, and Y.M. Kwon. 2015. Chapter 4. Application of molecular methods for traceability of foodborne pathogens in food safety systems. In: S.C. Ricke, J.R. Donaldson, and C.A. Phillips (Eds.) *Food Safety: Emerging Issues, Technologies and Systems*. Elsevier, Oxford, UK, pp. 37-63.
- Handley, J.A., S.H. Park, Z. Shi, T.M. **Dawoud**, Y.M. Kwon, and S.C. Ricke. 2015. Chapter 6. *Salmonella* and the potential role for microbial process indicators on chicken carcasses. In: S.C. Ricke, J.R. Donaldson, and C.A. Phillips (Eds.) *Food Safety: Emerging Issues, Technologies and Systems*. Elsevier, Oxford, UK, pp. 81-104.
- **Dawoud**, T.M., Z. Shi, Y.M. Kwon, and S.C. Ricke. 2016. Chapter 7. Overview of salmonellosis and foodborne *Salmonella*: Historical and current perspectives. In S.C. Ricke and R.K. Gast (Eds.). *Producing Safe Eggs-The Microbial Ecology of Salmonella*. Elsevier, Inc., San Diego,