

Nasim Sohail

 **Home :** Department of Pathobiology, Room 2627, VMBSB College of Veterinary Medicine, Univesity of Illinois, , 61821, Urbana, United States

 **Email:** mnsohail@illinois.edu  **Email:** nasimnasar25@yahoo.com  **Phone:** (+1) 2177661536

ABOUT ME

Veterinarian with a fervent dedication to teaching and research, striving to cultivate the next generation of animal health professionals while conducting impactful research to advance the field.

EDUCATION AND TRAINING

- [2018 – 2022]

PhD.
Department of Veterinary Microbiology, Veterinary College, KVAFSU, Bangalore, India.
- [2010 – 2012]

MVSc.
Department of Veterinary Microbiology, Veterinary College, KVAFSU, Bangalore, India
- [2001 – 2006]

DVM
Faculty of Veterinary Sciences, Kabul University, Kabul, Afghanistan

EMPLOYMENT HISTORY

- [25/04/2025 – Current]

Lecturer of Microbiology
Department of Pathobiology, College of Veterinary Medicine, University of Illinois, Urban Champaign, USA
- [16/07/2023 – 24/04/2025]

Visiting Scholar
Department of Pathobiology, College of Veterinary Medicine, University of Illinois, Urban Champaign, USA
- [30/05/2022 – 29/04/2023]

Veterinarian and Trainings Specialist
Animal Agri Solutions Pvt. Ltd. Karnataka, India,
- [04/2018 – 07/2022]

Ph.D. Scholar
KVAFSU, Bangalore, India
- [31/01/2020 – 31/07/2021]

Assistant Professor
Faculty of Veterinary Sciences, Afghanistan National Agricultural Sciences and Technology University (ANASTU), Kandahar, Afghanistan.
- [30/04/2013 – 31/07/2021]

Founder and President
Afghan Caravan Agri-Livestock Company (ACALC), Kandahar, Afghanistan.
- [31/07/2007 – 29/02/2020]

Instructor to Assistant Professor
Department of Animal Science, Faculty of Agriculture, Kandahar University, Kandahar, Afghanistan.

[05/2014 – 03/2018] **Poultry Practitioner- Evening Clinic**

Afghan Caravan Poultry Clinic, Kandahar, Afghanistan

[30/06/2006 – 31/08/2007] **Clinic Veterinarian**

Coordination of Afghan Relief (CoAR), Dai-Kundi, Afghanistan.

WORK EXPERIENCE

Department of Pathobiology, College of Veterinary Medicine, University of Illinois Urbana Champaign

City: Champaign

[25/04/2025 – Current] **Lecturer of Microbiology**

VM Curriculum Coordinator

- Coordinated second-year core DVM courses; developed schedules and updated syllabi.
- Led faculty meetings and aligned course content, assessments, and instructional hours.
- Managed Canvas, ExamSoft, Echo360, and Banner for course delivery, examinations, and grading.
- Designed and administered midterm, final, and milestone exams; conducted item analysis and grading review.
- Coordinated student accommodations and ensured compliance with academic policies.
- Organized lab groups, instructional materials, and course logistics.
- Served on the Written Milestone Exam Committee and Educational Policy Committee (EPC).
- Served on the Educational Policy Sub Committee (EPSC).
- Submitted final grades and prepared annual course audit reports.

Teaching

- Participated in infectious disease lab teaching.
- Participates as instructor in One Health IPE
- Participates as instructor in Antimicrobials Case Presentations
- Taught the Clinical Application and Professional Preparation_ Bovine.
- Taught the Body wall wet lab: incise, suture 3 layers of body wall.
- Taught Wound care wet lab: clip lavage, sample, active drain, Penrose drain, practice simple cont.

Research

- Published four research article mentioned in publication part of this CV

Department of Pathobiology, College of Veterinary Medicine, University of Illinois Urbana Champaign

City: Urbana | **Country:** United States

[16/07/2023 – 24/04/2025] **Visiting Scholar**

- Working on AMR research as a Visiting Scholar, focusing on a One Health approach.
- Committed to exploring the complexities of AMR across animal, human, and environmental health.
- Engages deeply in research and publications to enhance understanding and combat AMR.

- Utilizes analytical skills and critical thinking to contribute to global health solutions through scholarly work.
- Aims to enrich the scientific community and tackle AMR challenges globally with meaningful research contributions.

Animal Agri Solutions Pvt. Lmtd. India

[07/2022 – 05/2023] **Veterinarian and trainings specialist**

- Managing AMR Strategies within the Company: Implement strategies to minimize AMR development, including judicious use of antimicrobials and alternative treatments.
- Advise on Best Practices: Provide guidance on biosecurity, vaccination, and farm management practices to prevent disease and reduce the need for antimicrobials.
- Record Keeping and Reporting: Maintain detailed health records for the poultry, monitor trends in disease and resistance, and prepare reports for management.
- Staff Training: Train farm staff on disease diagnosis, prevention techniques, and proper medication administration to ensure animal health and welfare.

Department of Microbiology, Veterinary College, KVAFSU, Hebbal,

City: Bangalore | **Country:** India

[04/2018 – 07/2022] **PhD Scholar**

- Completed several full semester courses on advanced Microbiology, Virology, Bacteriology, Mycology, Immunology, Biotechnology, Infectious Diseases, Pathology, Emerging and reemerging diseases and etc.
- Completed research projects on AMR in Salmonella, E. coli and Campylobacter in poultry.
- Investigated AMR patterns and genes across the poultry supply chain.
- Highlighted risks from indiscriminate antimicrobial use in poultry for non-therapeutic purposes.
- Emphasized the need for AMR education, regulation, and stewardship in the poultry industry.
- Advocated for biosecurity, management practices, and antimicrobial alternatives to reduce food chain contamination.
- Worked in an International Collaborative research project and collaborated with several institutions, farmers, associations and industry.
- Wrote PhD thesis and published quality research papers.
- Participated in undergraduate teaching for DVM and BVSc. students.
- Supported the master student mentorship in lab work and research.
- Participated and presented in many workshops, summer-schools and conference.
- Trained several young veterinarians and farmer.
- Participated in several national and international conferences and presented my research findings.

Faculty of Vet. Sciences, Afghanistan National Agricultural Sciences and Technology University

City: Kandahar | **Country:** Afghanistan

[03/2020 – 08/2021] **Assistant Professor**

On deputation for Ph.D. research in India

Afghan Caravan Agri-Livestock Company, Kandahar, Afghanistan.

[06/2013 – 08/2021] **Founder and President**

In 2013, I founded a private company to better serve the farming community from both commercial and professional perspectives.

Main responsibilities:

- Making policy decisions.
- Identify, assess, and manage investment opportunities in livestock and agriculture.
- Managing the daily operations in the company.
- Analyze, recommend and manage the communication with each potential target.
- Conduct commercial reviews.
- Seek and identify market needs, product requirements, competitive information and other knowledge essential for strategic efforts.
- Develop and maintain key supplier relationships to foster mutually beneficial goals, including international suppliers.
- Oversee and monitor key indicators at all levels to ensure added economic value to the Company.
- Own the Company's financial statements and conduct daily, weekly and monthly reviews of financial statements to ensure accuracy, timeliness, and financial objectives are met.
- Review the results of operations and objectives quarterly.

***Department of Animal Sciences, Faculty of Agriculture, Kandahar University,
Kandahar, Afghanistan***

[09/2007 – 03/2020] **University instructor to Assistant Professor**

1. Teaching:

- Independently taught a number of courses (Microbiology, Bacteriology, Virology, Infectious Diseases of Livestock and Poultry, and Immunology).
- Conducted examinations and evaluated the answer books.
- Conducted laboratory practical for BVSc/DVM. students.
- Received hands on several months training on Objective Based Education (OBE) and Student-Centered Learning (SCL) for effective undergraduate and graduate teaching.
- Developed course content and other curricular materials.
- Effective communication with students, pre-course instruction and post-course support.
- Taught effectively both online and in person classes.
- Mentored both undergraduate and graduate students.
- Received training on mentoring and mentorship.

2. Management & Administration:

- Served as assistant teaching QC Manager of the faculty of agriculture.
- Member of Research Board of the Faculty of Agriculture.
- Member of Research committee, Kandahar University.
- Member of the curriculum development committee of the college for several years.

3. Research

- Completed master's research entitled "Biofilm formation by *Streptococcus agalactiae* isolated from bovine mastitis cases" and prepared thesis.
- Completed Doctoral Research entitled "Determination of Antimicrobial Resistance in *Salmonella* and *Escherichia coli* in Poultry and its Environment".
- Published several articles mentioned in the publications part below.

4. Projects:**Small Poultry farms as a livelihood for rural families.**

- Prepared proposal for the project and saucerful awarded.
- Facilitated meetings with the local stakeholders for the establishment of small poultry farms.
- Provided training to the poultry farm owners towards capacity-building.
- Provided technical assistance to poultry integrators towards better efficiency of poultry production.
- Created micro-enterprises for rural families by establishing and expanding poultry farms.

Antimicrobial Awareness to Veterinarian in Afghanistan:

- Local Disease Profiling
- Antibiotic Resistance Risks assignment

- Prudent Use of Antimicrobials training for local veterinarians.
- Education on Resistance Mechanisms
- Veterinary Continuing Education Programs on AMR
- Collaboration with Authorities.

Afghan Caravan Agri-Livestock Company, Kandahar, Afghanistan.

[05/2014 – 03/2018] **Poultry Practitioner- Evening clinic**

- Diagnosis of poultry diseases by conducting post mortem and laboratory examinations.
- Treatment of poultry and prescribing medication
- Educate the public about poultry diseases and infections that are transferable from animals to humans.
- Giving consultancy services to breeders, hatcheries, commercial and backyard poultry farmers, retailers and feed mill owners.
- Promote the health and wellness of poultry by advising animal owners about biosecurity measures, feeding and general care.
- Operate diagnostic equipment like PCR, ELISA reader and interpret the results.

Coordination of Afghan Relief, Daykundi, Afghanistan

[08/2006 – 09/2007] **Clinic Veterinarian**

- Treatment of large and small animals in the OPD on a daily basis
- Minor surgeries
- Farm visits for animal care, disease management, biosecurity and data collection.
- Preparation of daily records, weekly and monthly reports

LANGUAGE SKILLS

Mother tongue(s): Pashto , Persian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Critical thinking | Good listener and communicator | Microsoft Office | Organizational and planning skills | Social Media | Analytical skills | Written and Verbal skills | Decision-making | Team-work oriented | Motivated | Creativity | R Language (RStudio) | Data analysis | Effective teaching techniques | Objective Based Teaching | Student-centered learning and engagement. | Committed to diversity, equity and inclusion intercultural skills

PUBLICATIONS

Some published articles.

1. **Sohail, M. N.**, Isloor, S., Rathnamma, D., Priya, S. C., Veeregowda, B. M., Hegde, N. R., ... & Varga, C. (2026). Profiling of Antimicrobial Resistance Genes and Genotype-Phenotype Associations in Salmonella spp. Isolated Along the Broiler Production Chain in Karnataka, India. *International Journal of Food Science*, 2026(1), 8152167.
2. Varga, C., Shrestha, R., & **Sohail, M. N.** (2025). Factors impacting beef cattle producers' perceptions on disease prevention and preparedness in Illinois, USA: The role of farm biosecurity evaluations, veterinary visits, and willingness to invest in disease prevention. *Research in Veterinary Science*, 105955.
3. **Sohail, M. N.**, Isloor, S., Rathnamma, D., Chandra Priya, S., Veeregowda, B. M., Hegde, N. R., ... & Williams, N. J. (2025). Phenotypic and Genotypic Characterization

of Colistin, ESBL, and Multidrug Resistance in *Escherichia coli* Across the Broiler Production Chain in Karnataka, India. *Poultry*, 4(4), 51.

4. **Sohail, M. N.**, & Varga, C. (2025). Monitoring antimicrobial resistance in *Salmonella enterica* serovar Infantis isolates of poultry, livestock, and humans across the United States, 2013–2020. *International Journal of Food Microbiology*, 432, 111090.
5. Varga, C., Shrestha, R., & **Sohail, M. N.** (2025). Factors impacting beef cattle producers' perceptions on disease prevention and preparedness in Illinois, USA: The role of farm biosecurity evaluations, veterinary visits, and willingness to invest in disease prevention. *Research in Veterinary Science*, 105955.
6. Sodagari HR, **Sohail MN**, Varga C. Temporal, regional, and demographic differences among antimicrobial-resistant domestic *Campylobacter jejuni* human infections across the United States, 2013–2019. *Int J Antimicrob Agents*. 2025;65(5):107467. doi: 10.1016/j.ijantimicag.2025.107467
7. Sodagari, H. R., **Sohail, M. N.**, & Varga, C. (2024). Differences in the prevalence and antimicrobial resistance among non-typhoidal *Salmonella* serovars isolated from retail chicken meat across the United States of America, 2013-2020. *Food Control*, 110701.
8. Sodagari HR, Agrawal I, **Sohail MN**, Yudhanto S and Varga C (2024). Monitoring antimicrobial resistance in *Campylobacter* isolates of chickens and turkeys at the slaughter establishment level across the United States, 2013–2021. *Epidemiology and Infection*, 152.
9. Sahithya, N.G., Rathnamma, D., Isloor, S., Sharada, R., Upendra, H.A., Ravikumar, P., **Sohail, M.N.** (2023). Isolation and molecular identification of *Campylobacter jejuni* and *Campylobacter coli* from poultry in Karnataka, India. *Indian J. Comp. Microbiol. Immunol. Infect. Dis.*, 44: 129-136
10. **Sohail M. N.**, Rathnamma, D., Chandra Priya S., Isloor, S., H. D. Naryanaswamy, S. Wilfred Ruban, B. M. Veeregowda, "Salmonella from Farm to Table: Isolation, Characterization, and Antimicrobial Resistance of *Salmonella* from Commercial Broiler Supply Chain and Its Environment", *BioMed Research International*, vol. 2021, Article ID 3987111, 12 pages, 2021. <https://doi.org/10.1155/2021/3987111>
11. **Sohail, M. N.** (2022). Determination of Antimicrobial Resistance and Characterization of Associated genes in *Salmonella* and *Escherichia coli* in Poultry and its Environment: Ph.D. Thesis

Under Process Manuscripts

1. Antimicrobial Resistant *Escherichia coli* in poultry and livestock retails meat shops in the United States from 2013-2022

CONFERENCES AND SEMINARS

Programs attended/Presented

1. International Congress of Canine Practice IX Annual convention of Indian Society for Advancement of Canine Practice, Rajasthan, India
2. IX Annual Conference of Veterinary Public Health, Mumbai, India
3. International Conference on "Energizing Animal Health, Karnataka, India
4. International Seminar on "Future of livestock Health, Tamil-Nadu India.
5. Pan-commonwealth veterinary conference, Bengaluru, India
6. Certificate course on Molecular Biology techniques in Virus Research, Bangalore, India.
7. Certificate course on the Social Science aspect of antimicrobial resistance, Bangalore, India.

8. Annual Convention of the IAVMI, on “Current Trends in Immunodiagnostics & Vaccinology for Health of Livestock & Poultry” Haryana, India.
9. Conference of Research Workers in Animal Diseases-2024 (CRWAD-2024) in Chicago, USA.
10. Conference of Research Workers in Animal Diseases 2025 (CRWAD-2025) in Chicago, USA.
11. Antimicrobial Resistance Conference at Purdue University, USA.
12. Antimicrobial-resistant and *Campylobacter jejuni* infections in humans across the United States. at Ohio State University, USA.
13. 2025 National Institute of Antimicrobial Resistance Research and Education (NIAMRRE) Annual Conference (Bridging the Gaps in AMR).
14. The Infection Genomics for One Health theme works, The Carl R. Woese Institute for Genomic Biology (IGB), UIUC.
15. New University in Exile Consortium Scholars Retreat, June 25-27, 2025, Wesleyan University, Middletown, Connecticut 06459.
16. 2025 Interdisciplinary Research Courses for Displaced Scholars, hosted by the Center on Forced Displacement at Boston University from October 27th through November 6th, 2025.
17. Inclusive Pedagogy Certificate Program (IPCP-2025). College of Liberal Arts & Sciences, University of Illinois, Urbana Champaign.
18. Antimicrobial Resistance Conference-2026 at Purdue University, USA, February 25-26, 2026.
19. 75th Western Poultry Diseases Conference (WPDC): Revenge of the Pests: Reoccurrence of Problems and Emerging Threats We Thought We Outsmarted, San Diego, CA, USA | March 16-18, 2026.
20. National Institute of Antimicrobial Resistance Research and Education (NIAMRRE) Conference One Step Forward: Mobilizing Collaboration, Innovation, and Action Against AMR, May 19-21, 2026 | Ames, IA, USA.
21. 2026 New University in Exile Consortium Scholars Retreat at Wellesley College, Boston, Massachusetts, June 15-17th, 2026.
22. The National Poultry Improvement Plan (NPIP) held its 47th Biennial Conference from August 11–14, 2026, at the Hilton Salt Lake City Center in Utah.

HONOURS AND AWARDS

Awards and Honors.

- 2008- Life Membership of the Afghanistan Veterinary Association (AVA), Afghanistan.
- 2009, Award Winner, USAID Scholarship for MVSc. Studies, Karnataka, India.
- 2012, Life Membership of the Indian Association of Veterinary Microbiologists, Immunologists, and Specialists in Infectious Diseases.
- 2012, Best Poster Presentation Award, International Seminar on the Future of Livestock Health, Tamil Nadu, India. 2012.
- 2013, 2014, 2015: Teacher of the Year Award, Faculty of Agriculture, Kandahar University, Kandahar, Afghanistan.
- 2014- Life Membership of the Afghanistan Poultry Association (APA), Afghanistan.
- Best Paper Award from the Society for Advancement of Human and Nature (SADHNA), Himachal Pradesh, India. 2019.
- 2016- Best Teacher Award by the Dean, Faculty of Veterinary Medicine, Helmand University.
2018. Award Winner, Ph.D. Fellowship: Netaji Subhas - ICAR International Fellowships, Karnataka, India.

2022- Visting Scholar Award, Institute of International Education's Scholar Rescue Fund (IIE_SRF) Fellowship for a Visiting Scholar position at the University of Illinois, Urbana-Champaign, USA.

JOURNAL EDITING AND REVIEW

[2024 – Current]

Editing Reviewer of Frontiers in Veterinary Science Veterinary Infectious Diseases

- I am reviewing and editing papers for Frontiers in Veterinary Science, Journal of Veterinary Infectious Diseases
- Reviewer for the Journal of Discover Applied Sciences in Springer Nature

Link: <https://www.frontiersin.org/my-frontiers/overview>

HOBBIES AND INTERESTS

I love Teaching, Research, Traveling and Volleyball

REFERENCES

References

- Dr. D. Rathnamma. Professor and Head, Department of Veterinary Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru -560024. Email: rathnarohit@gmail.com, Mobile: +919844587311
- Dr. Csaba Varga. Assistant Professor of Infectious Disease Epidemiology Department of Pathobiology, Room 2241, VMBSB, College of Veterinary Medicine, 2001 S. Lincoln Ave., Urbana, IL 61802. Email: cvarga@illinois.edu
- Dr. Mohamed Nadeem Fairoze. President, Animals Agri Solutions, Former Director of Instruction of Postgraduate students, Professor, Dept. of LPT, Vet. College, KVAFSU. Email: prof.nadeem@animalagrisolutions.com , Mobile: +91990026066