

DR. NIHAN MARUN

DVM, Ph.D. Microbiology

Expert Witness · Veterinary Microbiology · Regulatory Science · Product Liability

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Florida, USA | Available Nationally & Internationally

PROFESSIONAL SUMMARY

Doctor of Veterinary Medicine and microbiologist with over 20 years of experience in animal health science, product manufacturing, and regulatory compliance. DVM combined with a Ph.D. in Microbiology, providing dual expertise in both clinical veterinary science and applied microbiology. Commercialized 20+ probiotic and microbial products globally across companion animal, livestock, poultry, aquaculture, agriculture, and water treatment sectors. Hands-on experience spanning strain selection, formulation development, GMP manufacturing, stability testing, labeling compliance, and regulatory submissions across FDA-CVM, USDA, AAFCO, EU, and APAC frameworks. Completed 150+ consulting projects and produced over 1,000 scientific and technical documents. Published author and peer reviewer. Available for both plaintiff and defense engagements.

AREAS OF EXPERT TESTIMONY

<p>Veterinary Medicine & Animal Health Multi-species (companion animal, livestock, poultry, equine, aquaculture)</p> <p>Microbiology & Infectious Disease Pathogen identification (Salmonella, Listeria, E. coli, aflatoxin), contamination pathways, zoonotic disease, AMR</p> <p>Food Safety & Science & Animal Feed & Additives FSMA compliance, HACCP, food safety chain, public health crossover, formulation, ingredient sourcing, mycotoxins, heavy metals, improper mixing, feed additive efficacy</p> <p>Probiotics & Microbiome Science Strain selection, CFU verification, stability testing, shelf-life validation, microbiome therapies</p>	<p>Regulatory Compliance & Labeling – Marketing Claims FDA-CVM, USDA, AAFCO, EU, APAC regulatory pathways, claims substantiation, dossier writing, AAFCO labeling, probiotic claims, 'natural'/'organic'/'human-grade' disputes, false advertising</p> <p>Product Liability - Animal Health Products Manufacturing defects, contamination, mislabeling, adulteration, quality control failures</p> <p>Manufacturing, GMP & Quality Assurance Formulation-to-finished goods, bottling, packaging, GMP audits, QA/QC protocols, ingredient traceability</p> <p>Intellectual Property & Trade Secrets Probiotic strain patents, formulation IP, product composition, international trademark & registration</p>
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REPRESENTATIVE CASE TYPES

- Pet food and animal feed contamination (Salmonella, Listeria, E. coli, aflatoxin, Vitamin D toxicity, heavy metals)
- Product liability involving animal health products, supplements, and feed additives
- FDA enforcement actions, warning letters, and regulatory compliance disputes
- False advertising and label claims on pet food, supplements, and probiotic products
- Probiotic efficacy disputes (CFU counts, strain identification errors, stability/shelf-life misrepresentation)
- Veterinary malpractice involving infectious disease, antimicrobial misuse, or microbiome-based treatments
- Intellectual property disputes: probiotic strain patents, formulation trade secrets, product composition
- Livestock and poultry feed disputes (mycotoxin contamination, feed additive efficacy, antibiotic alternative claims)
- Zoonotic disease and pet-to-human pathogen transmission
- Agricultural, aquaculture, and water treatment microbial product disputes
- CBD/hemp pet product regulatory compliance and marketing claims
- Antimicrobial resistance (AMR) policy, stewardship, and VFD/GFI #213 compliance
- FSMA compliance with animal food and feed facilities
- International regulatory disputes involving imported/exported animal health products
- Animal cruelty and welfare cases requiring veterinary and microbiological expertise

EDUCATION

Ph.D. in Microbiology - Institute of Health Sciences, Ankara University, Ankara, Türkiye | 2006–2012
Through TUBITAK (Scientific and Technological Research Council) full scholarship for 6 years

Doctor of Veterinary Medicine (DVM) - Faculty of Veterinary Medicine, Ankara University, Ankara, Türkiye | 2001–2006
274-credit-hour comprehensive veterinary program (5-year professional degree)

FORMAL ACADEMIC TRAINING RELEVANT TO EXPERT TESTIMONY

103+ total credit hours are directly applicable to expert testimony from DVM curriculum, plus 6-year doctorate (research) program in Microbiology. Supplemented by 15 years of applied industry experience in product development, manufacturing, regulatory submissions, and commercial operations across 3 continents.

- **Microbiology & Infectious Disease:** Microbiology I & II, Virology I & II, Immunology
- **Food Safety & Nutrition:** Animal Nutrition, Feed Hygiene & Technology, Nutritional Diseases, Food Hygiene & Control, Meat Hygiene, Milk Hygiene
- **Toxicology & Pharmacology:** Toxicology, Pharmacology I & II, Medical Biochemistry
- **Pathology & Forensic Medicine:** Pathology I, II & III, Forensic Medicine
- **Epidemiology & Biostatistics:** Epidemiology, Biostatistics, Zoonoses, Public Health
- **Multi-Species Animal Health:** Pet (companion) animals, aquaculture, poultry, ruminant, equine, wild animals

PROFESSIONAL EXPERIENCE

Founder & Principal Consultant — SIGMA BioVet Sciences

Shawnee, KS & Cape Coral, FL | 2020–Present

- Independent consulting firm specializing in animal health microbiology, probiotics/biotics, and regulatory science
- Completed 150+ projects for companies across North America, Europe, Asia, and South America
- Produced scientific and technical documents including regulatory dossiers, technical reports, and label reviews
- Provided expert consulting in animal health product liability, contamination, and regulatory compliance matters
- Developed The Responsible Biotics Framework™ — a proprietary methodology for evaluating microbiome-based products from science to market
- Consulting clients include Fortune 500 companies, startups, and mid-market animal health brands

Global Product & Technical Expert — DeLaval (Tetra Laval Group)

Kansas City, MO | 2023-2024

- Led scientific and technical strategy for microbial-based animal health products in a \$3.5B global agriculture technology corporation
- Oversaw product manufacturing, formulation, GMP compliance, stability testing, shelf-life validation, and QA/QC
- Managed regulatory submissions and labeling compliance across multiple international markets (US, EU, APAC)
- Directed field and laboratory studies for products in dairy sector
- Trained in Occupational Health & Safety, Corporate Governance, and Information Security within manufacturing environments

Independent Microbiology & Biotics Consultant

International | 2012–2020

- Commercialized 20+ probiotic and microbial products globally for companion animal, livestock, poultry, aquaculture, agriculture, and water treatment applications
- End-to-end product lifecycle management: strain selection, formulation development, manufacturing oversight, bottling, packaging, regulatory registration, and market launch
- Authored regulatory dossiers for FDA-CVM, USDA, AAFCO, and EU submissions

- Negotiated and closed international commercial deals for microbial solutions across agriculture, aquaculture, and environmental sectors
- Served as technical expert for international trademark disputes, product registration, and IP mediations

Research Scientist & University Instructor

Ankara University, Türkiye | 2006–2012

- Conducted doctoral research in clinical and applied microbiology (conventional and molecular techniques)
- Taught microbiology, immunology, epidemiology, zoonoses and public health at the university level
- Designed and executed laboratory animal studies under institutional ethics committee oversight
- Published peer-reviewed research and presented at international scientific conferences

CERTIFICATIONS & SPECIALIZED TRAINING

- **Forensic Science: DNA Analysis** University of Cambridge (edX)
- **Quality & Verification at Clinical Microbiology Laboratory** Turkish Society of Clinical Microbiology (KLIMUD), 2012
- **Laboratory Animal Utilization** Ethical Committee of Animal Experiments, Ankara University (HAYDEK), 2011
- **Corporate Governance Training** DeLaval (Tetra Laval Group), 2023
- **Occupational Health & Safety** DeLaval (Tetra Laval Group), 2023
- **Information Security Essentials** DeLaval (Tetra Laval Group), 2023
- **Technology Entrepreneurship: Lab to Market** Harvard University (HarvardX), 2020

PUBLICATIONS & PROFESSIONAL ACTIVITIES

- Published author of peer-reviewed articles and books in microbiology and neurobiology science
- Peer reviewer for several scientific journals including Frontiers in Microbiology
- Contributing author of several veterinary associations and national newsletters globally
- Speaker at international scientific and industry conferences on probiotics, antimicrobial resistance, and animal health
- Hands-on companion animal welfare experience through 5+ years of active shelter fostering and health assessment

EXPERT WITNESS SERVICES

- **Case Evaluation & Merit Assessment:** Initial review of case materials and scientific merit evaluation
- **Written Expert Reports:** Detailed scientific and technical expert opinions for litigation support
- **Deposition Testimony:** In-person or remote deposition with full case preparation
- **Trial Testimony:** Courtroom testimony as a qualified scientific expert
- **Consulting Expert:** Behind-the-scenes scientific analysis, strategy support, and opposing expert critique
- **Regulatory Interpretation:** FDA, USDA, AAFCO, and international regulatory framework analysis for litigation context

UNIQUE EXPERTISE

SCIENCE	INDUSTRY	REGULATORY
DVM + Ph.D. Microbiology Pathogen expertise Microbiome science Infectious Diseases Nutrition & Toxicology Multi-species knowledge Zoonoses & public health	20+ products commercialized Manufacturing & GMP Formulation & stability Agriculture & aquaculture Ingredient sourcing IP Rights & grants expertise Trademarks and Global Registration Mediation for distributorship rights	FDA-CVM · USDA · AAFCO EU & APAC frameworks Labeling Marketing claims Dossier writing Compliance audits

Full CV, transcript, and publication list available upon request.