

GUILLERMO TELLEZ-ISAIAS

DVM, MS, PhD

Founder, Gut Health LLC

Veterinary microbiologist | Poultry gut health and microbiome scientist | Inventor | Scientific advisor

EXECUTIVE CV

Executive Profile

Internationally recognized veterinary microbiologist, scientist, inventor, entrepreneur, and scientific advisor whose career spans more than four decades across academic research, graduate education, technology development, and commercial poultry health. His work has centered on practical, non-antibiotic strategies for enteric health and food-safety challenges, including Salmonella and Campylobacter control, probiotics and direct-fed microbials, mucosal immunity, intestinal barrier function, microbiome dynamics, and field-relevant disease models.

After retiring from the University of Arkansas in June 2024, Dr. Tellez-Isaias established Gut Health LLC as his current professional platform for scientific advising. He brings an unusual combination of laboratory depth, commercial translation, international scientific communication, and entrepreneurial experience to product development, field validation, and the integration of gut-health strategies into poultry production systems.

Leadership at a Glance

- Founder, Gut Health LLC; advisor to animal-health companies on product development, validation, and commercial integration.
- Former Research Professor, University of Arkansas Poultry Science Department (2020-2024); Visiting Professor (2003-2019).
- Former Professor and Head, Department of Avian Medicine, National Autonomous University of Mexico (UNAM).
- Founder of Sigrah-Zellet LLC and Eco-Bio LLC; contributor to technologies including FloraMax B11, Norum, PerforMax Optimizer, and EarlyBird.
- Recipient of the 2007 Federal Laboratory Consortium Excellence in Technology Transfer Award and the 2014 Poultry Science Association Frank Perdue Live Poultry Food Safety Award.

Education

Degree	Institution	Year	Field
PhD	Texas A&M University	1992	Veterinary Microbiology
MS	National Autonomous University of Mexico	1989	Avian Pathology
DVM	National Autonomous University of Mexico	1986	Veterinary Medicine

Core Advisory Domains

Poultry gut health and microbiome strategy; probiotics, prebiotics, synbiotics, and Bacillus direct-fed microbials; antimicrobial-alternative research; Salmonella and Campylobacter control; mucosal and innate immunity; intestinal integrity and leaky-gut models; necrotic enteritis and coccidiosis research; mycotoxin mitigation; applied field trials; translational research design; scientific due diligence and technical communication.

Professional & Scientific Leadership

Period	Role and institution
2024-present	Founder, Gut Health LLC - scientific advisory services for animal-health companies.
2020-2024	Research Professor, Poultry Science Department, University of Arkansas; retired June 2024.
2003-2019	Visiting Professor, Poultry Science Department, University of Arkansas.
2001-2002	Visiting Scientist (sabbatical), USDA-ARS Poultry Production and Product Safety Research Unit, University of Arkansas.
1994-2001	Head, Department of Avian Medicine, College of Veterinary Medicine, UNAM.
1993-2002	Professor, Department of Avian Medicine, College of Veterinary Medicine, UNAM.
1990-1992	Teaching Assistant in Veterinary Microbiology, Texas A&M University.
1987-1989	Assistant Professor, Department of Avian Medicine, College of Veterinary Medicine, UNAM.

Research & Translational Impact

Dr. Tellez-Isaias built research programs at the interface of veterinary microbiology, immunology, nutrition, and commercial production. His work moved beyond proof-of-concept studies to challenge models, field validation, formulation decisions, and technologies intended for use under production conditions. A recurring theme has been the development of practical alternatives to antibiotics that support intestinal homeostasis while reducing foodborne and enteric pathogens.

- Developed and evaluated Lactobacillus-based competitive-exclusion and probiotic approaches for Salmonella control, intestinal morphology, performance, and microbiome outcomes.
- Advanced Bacillus-based direct-fed microbial research addressing Salmonella infection, inflammation, intestinal permeability, nutrient utilization, and necrotic enteritis.
- Contributed to models of heat stress, feed restriction, leaky gut, mycotoxicosis, coccidiosis, and enteric disease designed to connect mechanistic biology with production-relevant endpoints.
- Collaborated across universities, USDA laboratories, poultry-industry partners, and international scientific networks.

Entrepreneurship & Technology Translation

Founder of Sigráh-Zellet LLC, subsequently acquired through Pacific Vet Group by Novozymes, and Founder of Eco-Bio LLC (2015-2026). His translational work includes FloraMax B11, Norum, PerforMax Optimizer, and EarlyBird. At Gut Health LLC, he now applies this experience to advisory engagements spanning scientific strategy, development planning, product evidence, and field implementation.

Selected Innovations, Technologies & Patents

Selected U.S. patent records listed in the full academic CV:

- U.S. Patent 8,956,849 - Composition and methods of enhancing immune responses to Eimeria.
- U.S. Patent 9,005,601 - Methods and compositions including spore-forming bacteria.
- U.S. Patent 10,258,688 - Novel mucosal adjuvants and delivery system.
- U.S. Patent 10,959,447 - Compositions, probiotic formulations and methods to promote digestion and improve nutrition in poultry.
- U.S. Patent 7,951,579 B2 - Method for bacteriophage delivery and amplification.

Selected Landmark Publications & Books

- Tellez, G., Latorre, J.D., eds. (2017). Alternatives to Antimicrobial Growth Promoters and Their Impact in Gut Microbiota, Health and Disease. Frontiers Media. doi:10.3389/978-2-88945-375-7.
- Tellez-Isaias, G., Latorre, J.D., eds. (2022). Alternatives to Antimicrobial Growth Promoters and Their Impact in Gut Microbiota, Health and Disease: Volume II. Frontiers Media. doi:10.3389/978-2-88974-750-4.
- Tellez-Isaias, G., ed. (2022). The Global Antimicrobial Resistance Epidemic: Innovative Approaches and Cutting-Edge Solutions. IntechOpen. doi:10.5772/intechopen.98171.
- Adhikari, B. et al. (2019). Evaluation of the antimicrobial and anti-inflammatory properties of Bacillus-DFM (Norum) in broiler chickens infected with Salmonella. Frontiers in Veterinary Science, 6, 282. doi:10.3389/fvets.2019.00282.
- Latorre, J.D. et al. (2018). Evaluation of epithelial barrier function and ileal microbiome in an established necrotic enteritis challenge model in broiler chickens. Frontiers in Veterinary Science, 5, 199. doi:10.3389/fvets.2018.00199.
- Shehata, A.A. et al. (2022). Probiotics, prebiotics, and phytogetic substances for optimizing gut health in poultry. Microorganisms, 10, 395. doi:10.3390/microorganisms10020395.

Publication Record

Source-reported figures: 372 peer-reviewed publications, 58 book chapters, 13 edited scientific books, more than 11,000 citations, h-index 63, and i10-index 166. Citation metrics are dynamic and should be refreshed periodically.

Awards & Honors

- 2014 - Frank Perdue Live Poultry Food Safety Award, Poultry Science Association.
- 2007 - Federal Laboratory Consortium Excellence in Technology Transfer Award, recognizing contributions to probiotic bacteria for poultry and reduction of Salmonella and Campylobacter foodborne illness.
- 1992 - Graduate Student Research Award, Poultry Science Association.
- 1986 - National Research Award, National Association of Specialists in Avian Sciences (ANECA), Mexico.
- Member, Mexico's National System of Researchers, Level III (as listed in the full academic CV).

International Speaking & Scientific Leadership

Dr. Tellez-Isaias has communicated poultry-health science to academic, industry, and professional audiences internationally. The full academic CV documents invited lectures and conference participation across the United States, Latin America, Europe, and other international venues.

- International Conference on Necrotic Enteritis in Poultry, Copenhagen, Denmark (2015): antibiotic-alternative approaches to necrotic enteritis.
- Brasil Sul de Avicultura, Chapeco, Brazil (2014): the intestinal microbiome and poultry productivity.
- Congress and technical programs in Peru, Bolivia, Ecuador, Colombia, and Chile (2010-2014): mucosal immunity, Salmonella control, gut physiology, stress, and enteric disease.
- International Meeting on Irradiation Processing, Istanbul, Turkey (1994): gamma irradiation of eggs inoculated with Salmonella Enteritidis.

Current Role - Gut Health LLC

Through Gut Health LLC, Dr. Tellez-Isaias advises animal-health organizations seeking scientifically rigorous, commercially relevant approaches to poultry gut health. Engagements may include research strategy, study design, product-development review, field-validation planning, evidence interpretation, technical positioning, and scientific communication.

Professional Contact

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