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HIND POULTRY

Vol. XXIII June 2025 No. 12

Vets In Poultry Hosts
2nd National Symposium
The Poultry Summit Pg. 23
Innovate-Integrate-Thrive

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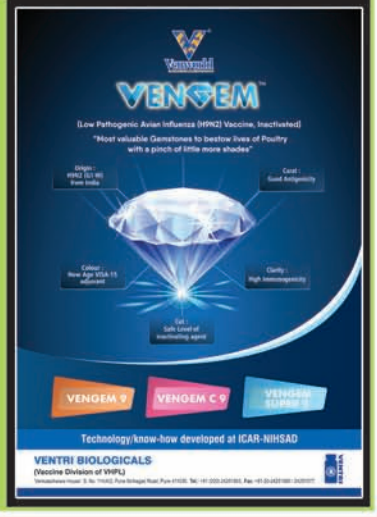
A quarter of a century of dedication and hard work is truly remarkable. Support and contributions of you all for all these years have been instrumental to our success, and we sincerely appreciate it with Thanks.

IPEMA & Poultry India
Honoured with
Top Industry Catalyst Award Pg. 13



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MONTHLY POULTRY MAGAZINE

VOL. XXIII No. 12 June 2025

Publisher :
SUGANDHA VYAS

Editorial & Regd. Office
HIND PUBLICATIONS
204, Plot No. 19, Huda Complex,
Saroor Nagar,
Hyderabad - 500 035.
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Website : www.hindpoultry.com

YEARLY SUBSCRIPTION :
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OTHER COUNTRY : $ 60 or Equivalent

Edited, Printed, Published and owned by
M.K. Vyas and Published from
204, Plot No. 19, Huda Complex,
Saroor Nagar, Hyderabad - 500 035. INDIA.
Design and Typesetting
Akshaya Graphics, Hyderabad.
Printed at
Akruti Offset Printers, Hyderabad.
A Magazine of
HIND PUBLICATIONS
RNI No. **7030/2002**
Subject to Hyderabad Jurisdiction

Vijay Singh Bayas (1945 – 2025)

Visionary Founder & Chairman, Vijay Raj Poultry Equipments Pvt. Ltd. Founding Member, IPEMA & Poultry India

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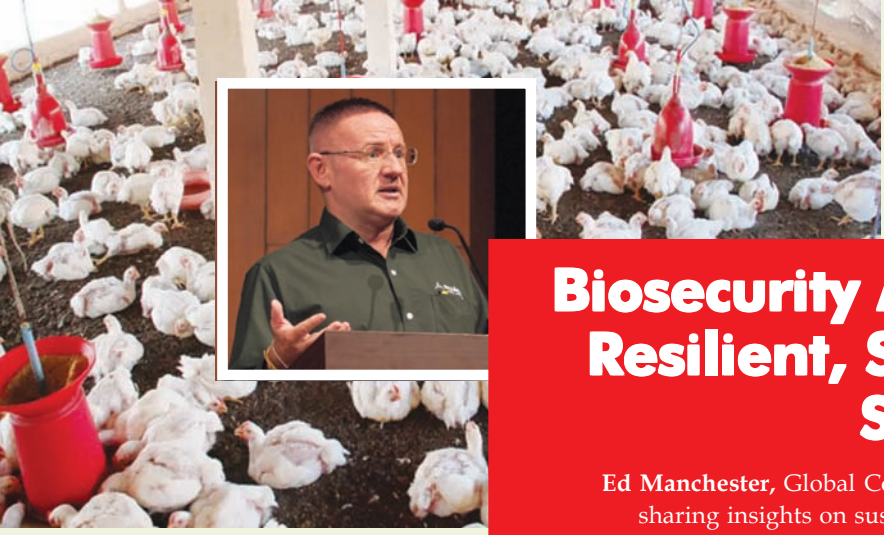

Biosecurity A Cornerstone For Resilient, Sustainable Food Systems

Ed Manchester, Global Commercial Director, Ecolex Animal Nutrition sharing insights on sustainable animal protein production at the Innovation Summit Southeast Asia 2025

At the recent Innovation Summit Southeast Asia 2025, Ed Manchester, Global Commercial Director of Ecolex Animal Nutrition, delivered a keynote presentation titled "Innovation, Commodities and Food Security." He emphasized that sustainable and resilient animal protein production is essential to achieving food security and environmental goals in the region.

Ed outlined a multi-faceted strategy built on four interconnected pillars: biosecurity, use of local raw materials, feed efficiency, and antibiotic stewardship. Among these, he highlighted biosecurity as the most urgent priority for Southeast Asia's food security challenges. "Diseases such as African Swine Fever, Avian Influenza, and White Spot Syndrome Virus have devastated animal populations and farmer livelihoods, disrupting supply chains and threatening protein availability and affordability," he explained during the Q&A session.

The use of locally sourced crops, agricultural byproducts, and food processing residues plays a vital role in reducing environmental impact by lowering transportation emissions and enhancing supply chain resilience. This approach minimizes dependence on imports, providing stability against global supply chain shocks like those experienced during the COVID-19 pandemic. Additionally, it supports regional economies and aligns with circular economy principles by upcycling materials that might otherwise be wasted.

Optimizingfeed efficiencyis another cornerstone of sustainable animal production. By formulating diets with well-characterized local raw materials, producers can improve feed conversion, reduce feed costs, and lower the environmental footprint of animal protein production.

Ecolex is also a strong advocate ofantibiotic stewardshipas a key component of sustainable livestock management. By integrating biosecurity with nutrition strategies that promote animal health and resilience, the reliance on antibiotics can be reduced, helping to mitigate the global challenge of antibiotic resistance. This holistic approach supports safer food production and aligns with worldwide efforts to preserve antibiotic efficacy.

"Utilizing local raw materials, feed efficiency and antibiotic stewardship are critical for long-term sustainability, but robust biosecurity is the cornerstone that provides long-term protection for investments in these areas," he concluded.

About Ecolex Animal Nutrition

Founded in 2005, Ecolex Animal Nutrition is a global leader in innovative animal nutrition, with expertise embedded in molecular engineering and bioscience. We are dedicated to developing sustainable solutions that enhance productivity while minimizing environmental impact. Ecolex has become established as a leading manufacturer and supplier of specialty rumen bypass and rumen inert fats for the global dairy farming business. From our state-of-the-art production facility near Port Klang, Malaysia, we serve an extensive export market, supplying to more than 35 countries across five continents. Today, our core expertise is focused in 3 key areas:

"ILDEX Philippines 2025 Expands" Setting a New Benchmark for the Livestock Industry

ILDEX Philippines, the leading international exhibition for the livestock, dairy, meat processing, and aquaculture industries, is proud to announce its expansion to Hall4 at the SMX Convention Center Manila. Taking place from 27–29 August 2025, this expansion marks the largest edition in the show's history, reinforcing ILDEX Philippines' role as the premier platform for the industry in Southeast Asia.

The expansion follows the strategic announcement in November 2024 to annualize the Philippine Poultry Show and ILDEX Philippines. Since then, overwhelming interest from both local and international stakeholders has driven the need for additional space. The addition of Hall 4 ensures that the growing number of exhibitors can be accommodated, delivering an even more vibrant and comprehensive experience for all participants.

"In response to the growing interest and increasing number of exhibitors and visitors, we are excited to announce the expansion of the exhibition space for the Poultry Show and ILDEX. This move will allow us to accommodate more participants, showcase a wider range of innovations, and enhance the overall event experience. The additional space will also improve traffic flow, provide more networking areas, and ensure a more comfortable environment for both exhibitors and attendees.

We are working hard to provide exhibitors and visitors with a brand-new experience at the Poultry Show and ILDEX Philippines. We look forward to welcoming everyone to a bigger and better event this year" stated by Ms.MildredEsquillo, PPS Event Manager, DeltaMan.

An Unparalleled Gathering of Global and Local Industry Leaders

This year's edition will bring together an impressive lineup of brands, with 75% of exhibitors representing international companies and 25% from the Philippines. Confirmed national pavilions include major presences from Europe and China, underscoring the global significance of ILDEX Philippines.

Visitors can expect to meet and connect with many of the world's leading names in the livestock industry, including:

ADM, Alltech, Atlas, Big Dutchman, Bounty, Cargill, CEVA, CP Food Philippines, DSM-Firmenich, Elanco, EQUALIVET, PhilNutri, Philchema, Pilmico, Pure Bioscience, Superiorvet, and Vitarich.These renowned companies represent the full spectrum of the livestock supply chain—from animal health and nutrition to feed production, breeding, genetics, equipment, and processing solutions—showcasing the very latest innovations and technologies.

"We have received really positive response from the industry and our clients over the past months since we decided to annualize the show. This has given us a lot more confidence to expand into hall 4, allowing us to welcome more leading exhibitors and participants together in "Philippine Poultry Show & ILDEX Philippines 2025". This extension is not only reflecting the show's growth, but also showing our commitment to the development of the livestock industry in the Philippines market." Mr.Kevin

Zhao, Senior Project Manager, ILDEX Philippines, said.

New Highlights for 2025: A Broader and Deeper Focus

ILDEX Philippines 2025 will not only continue to be the key platform for the feed and poultry sectors, but will also place a strong new emphasis on the swine and aquatic industries. Dedicated exhibition zones and technical seminars will allow visitors to gain cutting-edge insights and solutions tailored to these rapidly growing sectors.

Exclusive Hosted Buyer Program

Launching in June 2025, the Hosted Buyer Program offers selected key buyers with strong purchasing power in the livestock, feed, and aquaculture industries complimentary flights and hotel in Manila. This highly curated program provides exclusive networking opportunities, personalized business matchmaking services, and valuable one-on-one connections between buyers and exhibitors to maximize the business impact of the event.

A Show Not to Be Missed

With a greatly expanded exhibition space, a record number of leading brands, new sector highlights, and enhanced networking opportunities, ILDEX Philippines 2025 is set to be the must-attend event for anyone involved in the livestock, dairy, meat processing, and aquaculture industries. This year's edition will deliver unparalleled business opportunities, learning experiences, and industry connections—solidifying ILDEX Philippines as the most important livestock event in the region.

OBITUARY

Vijay Singh Bayas (1945 – 2025)

Visionary Founder & Chairman, Vijay Raj Poultry Equipments Pvt. Ltd.
Founding Member, IPEMA & Poultry India

We mourn the loss of Mr. Vijay Singh Bayas, a pioneering figure in India's poultry industry and a visionary leader, who passed away on 1st June 2025 at the age of 80. Mr. Bayas was the dynamic Founder and Chairman of Vijay Raj Poultry EquipmentsPvt. Ltd., a name that has become synonymous with innovation, quality, and integrity in the poultry sector. Since establishing the company in 1972, he dedicated his life to revolutionizing poultry farming in India through modernization and technology. At a time when poultry farming in the country was largely unstructured and traditional, Mr. Bayas introduced mechanization to improve both efficiency and animal welfare. Under his visionary leadership, the company pioneered several industry-first innovations, including the introduction of water channel systems in poultry cages (1980), nipple drinkers (1984), and the widely adopted "Comfort Cage" model (2001). These innovations set new benchmarks for the industry and are today part of standard poultry farming practices nationwide.

His relentless commitment to research and development and partnerships with leading agricultural universities and institutions led to the integration of Standard Operating Procedures (SOPs) and Good Manufacturing Practices (GMP) in every product line. As a result, Vijay Raj Poultry Equipments has earned the trust of poultry professionals not just in India but across over 25 countries globally. Mr. Vijay Singh Bayas was one of the founding members of IPEMA and played a key role in establishing the Poultry India Expo, which has grown into South Asia's largest poultry event. The expo completed its 16th edition successfully and is now entering its 17th edition in 2025. Held annually in Hyderabad, the exhibition continues to flourish under the leadership of his son, Mr. Uday Singh Bayas – Managing Director of Vijay Raj Poultry EquipmentsPvt. Ltd. – who also serves as the President of IPEMA/Poultry India. On behalf of IPEMA / Poultry India, we extend our deepest condolences to the Bayas family. Mr. Vijay Singh Bayas's passing marks the end of an era. His contributions to the poultry sector, his visionary leadership, and his unwavering pursuit of excellence will continue to inspire generations to come.

His legacy lives on.

Team: Indian Poultry Equipments Manufacturers Association & Poultry India

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IPEMA & Poultry India Honoured with "Top Industry Catalyst" Award at Exhibition Excellence Awards 2025

In a resounding recognition of its unwavering commitment to the Indian poultry and agri-exhibition sector, IPEMA & Poultry India has been awarded the coveted "Top Industry Catalyst" award at the prestigious Exhibition Excellence Awards & Summit 2025, held at the CIDCO Exhibition & Convention Centre, Navi Mumbai on 31st May 2025.

Organised by *Exhibition Showcase* and supported by India's leading MICE institutions including the Ministry of Tourism, IEIA, UFI, ICCA, and others, the 9th edition of the Exhibition Excellence Awards (EEA) was a landmark celebration. The event witnessed the participation of over 980 global industry professionals and luminaries from across exhibitions, trade fairs, and the broader MICE landscape.

Recognition as a Testament to Industry Impact

According to Mr. Uday Singh Bayas, President – IPEMA / Poultry India, this national honour reflects the collective dedication of the entire

IPEMA community. The "Top Industry Catalyst" award underscores IPEMA's influential role in fueling knowledge exchange, empowering stakeholders, and reinforcing India's growing global leadership in the exhibitions domain.

In addition to this major accolade, IPEMA / Poultry India was also nominated in multiple competitive categories, including:

- The Star Show
- The Knowledge Hub
- Star in Industry Promotion
- Top Industry Impact Show (Live Competition)
- India's Leading Conference

IPEMA's participation also extended to the Live Competition Zone, where Mr. Bayas presented the organisation's impactful initiatives directly to a distinguished jury of MICE leaders. Further recognising his contributions, Mr. Bayas received a Distinguished Leadership Award, accepted with gratitude on behalf of the entire IPEMA fraternity.

A Win for the Entire Poultry Ecosystem

This award serves as more than just a mark of excellence—it stands as a symbol of trust, dedication, and collaborative progress. It is a shared achievement that belongs to every member, exhibitor, partner, and supporter who has contributed to IPEMA's journey and mission. Their

continued belief in IPEMA's vision fuels ongoing innovation and expansion within India's poultry and agri-exhibition sectors. IPEMA / Poultry India also extends sincere appreciation to *Exhibition Showcase* for curating a platform that not only celebrates excellence but also sets new benchmarks for the future of India's exhibitions and MICE industry.

Commitment to Future Growth

Looking ahead, IPEMA reaffirms its commitment to driving thought leadership, delivering world-class experiences, and catalysing sector-wide growth through Poultry India and its allied initiatives. Kudos to Team IPEMA! Together, the organisation strives to build a stronger, smarter, and more impactful exhibition ecosystem—for India and beyond.

For more updates and event highlights, follow Poultry India's official media channel on social platforms.

Join us at the 17th edition of the Poultry India Expo 2025 in Hyderabad, Telangana from November 26, 27, 28 – 2025.

Together, let us shape a resilient, inclusive, and globally recognized poultry industry

Together, let us Innovate, Integrate, and Thrive.

Leading The Way: Ecolex Animal Nutrition Awarded "Most Innovative Company" At Innovation Summit Southeast Asia 2025

Ecolex Animal Health, a global frontrunner in advanced animal nutrition solutions, was honored to receive the prestigious "Most Innovative Company" award at the Innovation Summit Southeast Asia 2025. The event convened leading industry experts and innovators from across the region to recognize groundbreaking technologies and sustainable advancements.

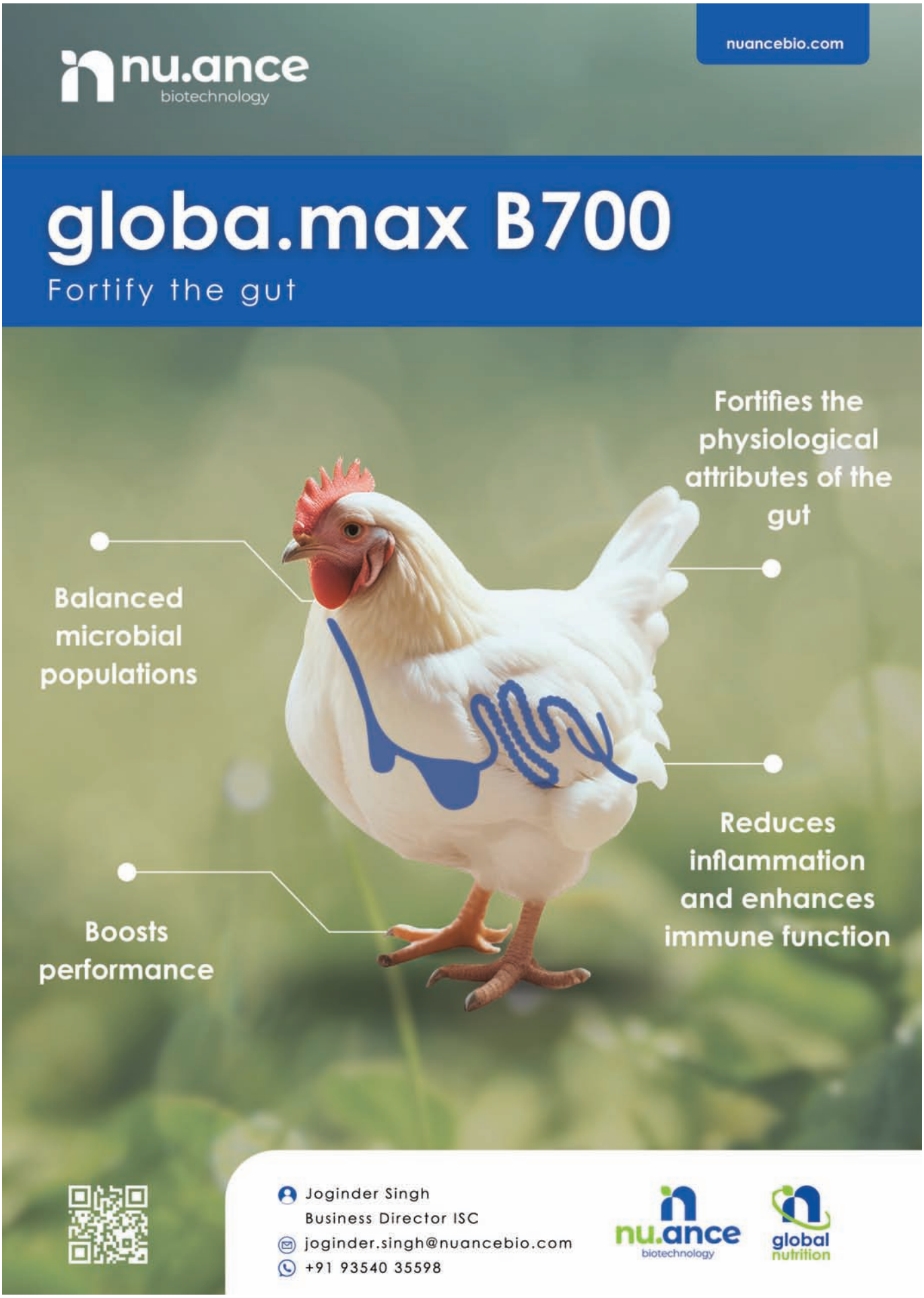
Ed Manchester, Ecolex's Global Commercial Director, expressed his sincere gratitude to the Center for Market Education and the Tholos Foundation for this distinguished recognition at such a prominent regional forum. "This award reaffirms our commitment to pioneering sustainable, science-driven animal nutrition that addresses critical challenges in food security, feed safety, and environmental stewardship," he stated. Ed emphasized that "The accolade also underscores Ecolex's leadership in innovation and sustainability, enhancing its appeal as a trusted partner for global corporations, research institutions, distributors, and end-users across the animal health and nutrition sector."

Since its founding in 2005, Ecolex Animal Nutrition has been at the forefront of molecular engineering and bioscience, developing cutting-edge nutritional products that boost animal productivity while minimizing environmental impact. The award highlights Ecolex's continued efforts to tackle pressing industry challenges such as metabolic disorders, antibiotic resistance, and improving nutrient conversion efficiency in food-producing animals. As Ecolex continues to expand its global footprint-now serving more than 35 countries across five continents-the company remains dedicated to delivering innovative, sustainable solutions that support the future of animal agriculture.

About Ecolex Animal Nutrition

Founded in 2005, Ecolex Animal Nutrition is a global leader in innovative animal nutrition, with expertise embedded in molecular engineering and bioscience. We are dedicated to developing sustainable solutions that enhance productivity while minimizing environmental impact. Ecolex has become established as a leading manufacturer and supplier of specialty rumen bypass and rumen inert fats for the global dairy farming business. From our state-of-the-art production facility near Port Klang, Malaysia, we serve an extensive export market, supplying to more than 35 countries across five continents. Today, our core expertise is focused in 3 key areas:

Emulsification Technologies: We lead the industry in advanced emulsification techniques that improve nutrient bioavailability and feed efficiency, **Advanced Lipid Nutrition:** Our specialists develop optimized fatty acid balances to enhance animal health and performance., **Sustainable Insect Proteins:** We pioneer the production of alternative protein sources that support eco-friendly practices.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FORMULATIONS

39th Edition of SPACE 2025 Promises to Build on the Resounding Success of its Predecessor

The Salon Professionnel de l'Agriculture et de l'Élevage (SPACE) 2025, scheduled from Tuesday, September 16 to Thursday, September 18 at the Rennes Exhibition Centre in Western France, is poised to be a landmark event in the global agricultural calendar. As the 39th edition of this renowned exhibition, SPACE 2025 promises to build on the resounding success of its predecessor, SPACE 2024, by bringing together over 1,200 exhibitors and an estimated 100,000 visitors from 120 countries. This comprehensive report explores the significance, highlights, and innovative features of SPACE 2025, underscoring its role as a pivotal platform for the animal farming community and its contributions to addressing global agricultural challenges.

A Global Meeting Point for the Animal Farming Community

SPACE 2025 stands as a beacon for the animal farming industry, uniting professionals from diverse sectors, including dairy and beef cattle, pigs, poultry, goats, sheep, and aquaculture. Held in Rennes, the heart of Western France-a region responsible for 53% of French milk production-SPACE is uniquely positioned as a crossroads for European and global agriculture. Its international outreach is a core component of its identity, with 311 international exhibitors already registered as of May 16, 2025, including 195 first-time participants. This diversity reflects SPACE's commitment to fostering global connections and supporting exhibitors in expanding their export markets.

The exhibition's global appeal is evident in its ability to attract visitors from 120 countries, facilitated by a dynamic international promotional campaign launched post-SPACE 2024. This year, SPACE is enhancing its outreach to African countries, with a dedicated poultry farming training course in partnership with INNOZH, tailored for hot climates. This initiative responds to the participation of 32 African nations in the previous edition, highlighting SPACE's role in addressing region-specific agricultural needs and promoting technical and scientific advancements worldwide.

Agricultural Intelligence: The Heart of SPACE 2025

The theme for SPACE 2025, "Agricultural Intelligence," underscores the transformative role of artificial intelligence (AI) in modern farming. As global agriculture navigates complex challenges-ranging from food security to environmental sustainability and energy demands-AI emerges as a critical tool for enhancing precision, performance, and animal health management. SPACE 2025 will spotlight AI's applications in decision-making and predictive analytics, which account for 90% of ongoing AI projects globally. These technologies analyze quantitative and visual data to optimize processes, manage risks, and improve operational efficiency.

In collaboration with the

Brittany Chamber of Agriculture, SPACE will feature the "Espace for the Future," a dedicated area showcasing AI-driven solutions for agriculture. This platform will highlight how AI enhances working comfort, supports sustainability, and addresses climate-related and health risks. The focus on AI aligns with SPACE's mission to provide farmers with cutting-edge tools to meet evolving global demands, reinforcing its position as a forward-thinking exhibition.

Innov'Space: Celebrating 30 Years of Innovation

A cornerstone of SPACE, the Innov'Space label, celebrates its 30th anniversary in 2025. Since its inception, Innov'Space has recognized 1,437 innovations from over 700 exhibitors, with nearly 3,500 entries submitted over three decades. This prestigious award is a testament to the expertise of agritech companies and a powerful marketing tool that elevates their visibility. To mark this milestone, SPACE 2025 will feature special events and a social media campaign showcasing testimonials from top Innov'Space awardees, highlighting their contributions to animal farming advancements. The 2025 award-winners will be announced in July, further cementing SPACE's role as a catalyst for innovation.

Exhibitor and Visitor Engagement

SPACE 2025 is set to surpass the exhibitor turnout of 2024, with 1,093 companies already registered, including 250 specializing in animal farming machinery. This comprehensive showcase spans all animal farming sectors, offering tailored solutions for mixed and specialized farming operations. The high participation rate underscores SPACE's reputation as a must-attend event for industry professionals seeking innovative tools and technologies. Visitors, ranging from farmers to industry leaders, will benefit from a rich program designed to foster networking and knowledge exchange. The exhibition's digital solutions, including enhanced online platforms, facilitate connections both within and beyond the event, ensuring seamless interaction among participants. Additionally, SPACE TV by Web-agri will provide live coverage and insights, amplifying the event's reach and impact.

Highlighted Events and Initiatives

SPACE 2025 introduces several exciting features and events that enhance its appeal and relevance: C15 Road Tour: A novel communication initiative, SPACE's C15 will see agri-influencers Jean-Baptiste de Wever and Perrine Raymond travel across Western France to engage with farmers and exhibitors. This social media-driven campaign will offer a glimpse into the preparations for SPACE 2025, fostering excitement and engagement.

AGREEN Challenge: Marking its debut, the AGREEN Challenge is SPACE's first AI Hackathon, held on September 17 and 18. This 48-hour event will bring together developers, data scientists, and agricultural professionals to co-create AI solutions addressing real-world farming challenges, further emphasizing the exhibition's focus on technological innovation.

Tech'Agri Challenge: On September 16, the third edition of the Tech'Agri Challenge will showcase eight student-developed solutions at the Youth Forum. This initiative bridges agricultural and digital expertise, fostering collaborative innovation to tackle industry challenges. Youth Forum: A platform for young agricultural trainees, the Youth Forum will facilitate discussions on career paths, working conditions, and consumer communication. A new feature in 2025 allows trainees to present their courses to secondary school students, inspiring the next generation of farmers.

Milky West Season 2: This social media series will release six episodes highlighting careers in the dairy industry, showcasing the dynamism of Western France's dairy sector. The episodes aim to inspire and inform audiences about opportunities in this vital industry. Farming Simulator Cup: Returning for its second season, this popular online game competition will engage millions of players worldwide, adding a modern, interactive element to the exhibition.

Breed Show and Aquaculture Focus: The 2025 Breed Show will highlight advancements in animal genetics, while a dedicated focus on aquaculture will address the growing importance of this sector. Additionally, a competition on vaccination techniques will offer practical insights for farmers.

Conferences and Networking: SPACE 2025 will host high-quality conferences, providing a forum for discussions on critical agricultural topics. These sessions, combined with digital networking tools, ensure participants gain valuable insights and forge meaningful connections.

Addressing Global Agricultural Challenges

In a world grappling with geopolitical uncertainties and shifting food and environmental demands, SPACE 2025 underscores the resilience and adaptability of the animal farming community. By fostering professionalism, showcasing innovative tools, and promoting global collaboration, SPACE equips farmers to address multifaceted challenges. The emphasis on AI and sustainability reflects the exhibition's commitment to driving progress in agriculture, ensuring it remains a vital force in meeting global needs. SPACE 2025 is more than an exhibition; it is a dynamic platform that unites the global animal farming community, fosters innovation, and addresses pressing agricultural challenges. With its focus on Agricultural Intelligence, a robust lineup of exhibitors, and a diverse array of events-from the AGREEN Challenge to the Innov'Space 30th anniversary celebrations-SPACE 2025 promises to be a transformative experience. As it continues to bridge tradition and technology, SPACE reaffirms its position as the premier event for animal farming professionals worldwide, offering solutions, inspiration, and connections that will shape the future of agriculture.


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Vets In Poultry Hosts 2nd National Symposium: The Poultry Summit Innovate–Integrate–Thrive

Vets In Poultry (VIP), India's premier network of poultry veterinaryprofessionals, successfully hosted its 2nd National Symposium on 7th May 2025 at Hyatt Regency, Chandigarh. Centered around the theme "The Poultry Summit: Innovate, Integrate & Thrive," the landmark event brought together over 580 stakeholders including veterinarians, poultry professionals, farmers, poultry leaders, researchers, policymakers, media, associations, government officials, ministers and academic institutions for a transformative day of knowledge exchange, collaboration, and visionary dialogue.

Distinguished Guests

The symposium was honoured by the presence of several esteemed dignitaries:

Chief Guest: Shri Nitin Gadkari, Hon'ble Union Minister,

Ministry of Road Transport & Highways, Government of India (VC mode)

Special Guest: Shri Mahipal Dhanda, Hon'ble Cabinet Minister, Government of Haryana

Guest of Honour: Smt. Alka Upadhaya, IAS, Secretary, Department of Animal Husbandry and Dairying (DAHD), Government of India(VC mode)

Keynote Speaker: Mr. Balram Singh Yadav, Managing Director, Godrej Agrovet Ltd

Joining them were the VIP Office Bearers:

President Dr. Ajay Deshpande, Vice President Dr. C.B. Pathak, Secretary Dr. Santosh Ire, Advisor Prof. Dr. Ajit Ranade, Treasurer Dr. Jeevan Sonawane, and North Zone Head Dr. Vishal Singh Rawat.

Inaugural Highlights

Following the unveiling of the symposium souvenir, Dr. Vishal Rawat extended a warm welcome to the guests and participants. Dr. Santosh Ire presented the inspiring journey of VIP from its humble beginnings in 2014 as a WhatsApp group of 50 veterinarians to a national platform of over 1,500 members. Dr. Ajay Deshpande delivered an insightful address on the critical challenges facing the poultry sector and the pivotal role of VIP in navigating these.

Mr. Balram Singh Yadav, in his keynote, emphasized the importance of unified action within

the poultry ecosystem and shared insights into global market trends. Smt. Alka Upadhaya, IAS highlighted the government's inclusive, supportive approach and reiterated DAHD's commitment to addressing sectoral needs.

Hon'ble Shri Mahipal Dhanda called for unifying poultry associations under one platform and underscored the importance of exports. Hon'ble Shri Nitin Gadkari captivated the audience with a visionary address covering maize supply, infrastructure development, veterinary services, VIP association important role, doubling farmers' income, and green energy, underscoring the critical role of poultry in India's GDP. The inaugural session concluded with remarks from Prof. (Dr.) A.S. Ranade, Technical Advisor, VIP.

Technical & Expert Sessions

The symposium featured insightful sessions by industry stalwarts:

Unlocking Poultry Potential through Genetics – Dr. G.L. Jain

Navigating Disease Challenges – Dr. K. Jayaraman

Tech for Health: Revolutionizing Poultry Business – Mr. Suresh Rayudu Chitturi

Empowering the Poultry Sector: Vision 2047 – Dr. S.K. Dutta

Mitigating Climate Change: A Comprehensive Approach – Prof. Dr. N.K. Mahajan

Expert Panel Discussion

A high-impact panel discussion, moderated by Prof. (Dr.) P.K. Shukla, President, Indian Poultry Science Association, explored opportunities for innovation, integration, and resilience in the poultry ecosystem. Esteemed panelists included Mr. K.G. Anand, Dr. Kamna Barkataki, Mr. Valsan Parameswaran, Dr. Ajay Deshpande, Mr. Nasir Hussain, and Dr. S.K. Dutta.

Acknowledgments & Closing

VIP honored its committee members, sponsors, associations, and media partners with mementos in recognition of their support and contributions.

Dr. Ajay Deshpande, President, VIP, reflected: "This symposium was not merely an event—it was a shared commitment to shaping a stronger, more innovative Indian poultry sector. We thank every participant and partner for their invaluable contributions."

About Vets In Poultry (VIP)

Vets In Poultry (VIP) is a national association of over 1,500+ veterinarians working across the Indian poultry sector. Our members represent every aspect of the poultry value chain, including broiler and layer farming, breeding, animal health, research, academia, and pharmaceuticals etc. VIP is committed to fostering knowledge, collaboration, and solutions to advance poultry science and production in India.

Gratitude

Team VIP extends heartfelt thanks to all supporters, associations, government delegates, sponsors, speakers, panelists, moderators, and media partners who made The Poultry Summit 2025 a grand success.

Jigawa State Governor Leads High-Level Delegation to India for Trade and Investment Mission

A high-level delegation from Jigawa State, Nigeria, led by Honorable Governor Umar Namadi, is currently on a two-week trade and investment mission to India with a primary focus on agriculture. The delegation comprises senior government officials and technical experts from the Ministry of Agriculture, Jigawa Research Institute, and key farmer representatives. As part of the mission, the team is engaging with counterparts in Gujarat, Telangana, and Andhra Pradesh, exploring strategic collaborations in the dairy and poultry sectors.

On Monday, the delegation visited the central office of Srinivasa Farms in Hyderabad. They were warmly welcomed by Mr. Venugopal, CEO; Mr. Senthil, Business Head – Poultry; Mr. Ramakanth, CFO; Mr. Anjaneya Raju, Chief HR; and Mr. Sridhar Babu, Senior Manager – Media and Liaisoning.

Mr. Senthil presented an overview of Srinivasa Farms' 60 yers,- decade legacy and its contributions to India's poultry industry. The delegation expressed deep appreciation for the company's commitment to quality, innovation, and farmer welfare. The visitors toured Srinivasa Farms' poultry units and feed manufacturing facilities. They were highly impressed by the company's strict biosecurity standards and operational excellence. Recognizing the potential for collaboration, the Jigawa State delegation extended an invitation to Srinivasa Farms to explore investment and knowledge-sharing opportunities in Nigeria. Discussions on potential business partnerships are ongoing, with a shared vision of strengthening poultry production and agricultural development in Jigawa State.

A Few Tips of Managing Broiler Farming During Heat and Humid Conditions

Broiler farming is a dynamic business, but one of its biggest challenges is managing birds during hot and humid conditions. While broilers are bred for rapid growth, their ability to regulate body temperature is limited, making them vulnerable to heat stress.

Signs of Heat Stress:

1. Increased panting and open-mouth breathing.
2. Increased water intake and reduced feed intake.
3. Lethargy and reduced activity levels.
4. Restlessness and seeking shade.

Causes of Heat Stress:

1. Poultry are particularly vulnerable to heat stress during periods of high temperatures, especially when combined with high humidity and low airflow.

2. Broilers lack sweat glands, making it difficult for them to cool down naturally. Instead, they rely on panting, which increases their energy expenditure and leads to dehydration.

3. The situation worsens when humidity is high, as it reduces the efficiency of evaporative cooling. This creates a dangerous cycle where birds experience distress, reduced feed intake, and lower weight gain.

4. When temperatures rise above the comfort zone broilers eat less to minimize metabolic heat production. This slows down weight gain and results in poor feed conversion efficiency.

5. Prolonged dehydration can lead to organ failure and increased mortality.

6. Under extreme heat, some birds die suddenly due to heatstroke

Summer Management.

1. Use glucose and amino acid supplements to boost energy levels and immune function.

2. Offer early morning and late evening feedings to encourage intake during cooler hours.

3. Include antioxidants like Vitamin E and selenium to repair cell damage from heat stress.

Hy-Line International proudly announces the appointment of Jamie McIntosh as a Global Technical Services Manager and Alternative Systems Specialist in response to the growing demand for Hy-Line layers in alternative production systems worldwide.

Jamie brings over 15 years of experience in the poultry industry, focusing on hands-on aviary, barn, and free-range systems management. Since earning his degree from Heriot-Watt University, Edinburgh, Scotland, in 2006, Jamie has held key roles that have allowed him to develop deep expertise in best practices and technical aspects of alternative systems operations. His extensive industry knowledge, combined with his practical experience managing large-scale farms and teams, makes him a valuable asset to Hy-Line International and the producer base.

In his new role at Hy-Line International, Jamie will play a pivotal part in our Global Technical Services Team, particularly in strengthening our leadership in alternative systems management. His responsibilities will include providing technical assistance to our distributors and commercial producers, nurturing established partnerships, and enhancing alternative operations through expert advice and training. Jamie will also contribute to the development of literature and training programs, ensuring Hy-Line continues to lead in this area with the most up-to-date information and solutions. The appointment recognizes Hy-Line's commitment to its global customer base in the face of increasing growth in alternative systems. Please join us in extending a warm welcome to Jamie as he begins this exciting new chapter with Hy-Line International.

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Mycotoxins in the food chain
Understanding risks and exploring mitigation strategies

Dr. Maloshrie Bora, Program Manager - Feed Safety, Trouw Nutrition South Asia

The safety of animal feed is increasingly compromised by a confluence of global challenges, notably mycotoxin contamination. These toxic metabolites, produced by molds such as Aspergillus and Fusarium, pose significant health risks to livestock and, by extension, to humans consuming animal products. Contributing factors include a shortage of quality raw materials, exacerbated by supply chain bottlenecks and geopolitical disruptions. Climate change further intensifies the issue by altering temperature and precipitation patterns, creating favorable conditions for mold growth and mycotoxin production. Additionally, inadequate storage and transportation facilities, often lacking proper ventilation and climate control, facilitate the proliferation of these harmful fungi. Together, these elements underscore the urgent need for comprehensive strategies to mitigate mycotoxin risks and ensure feed safety.

Even the smallest lapse in post-harvest handling can swiftly trigger the formation of harmful secondary metabolites like mycotoxins. Factors such as delayed drying, inadequate moisture control, and poor storage conditions can create an environment conducive to fungal growth, leading to rapid mycotoxin accumulation. For instance, aflatoxin contamination in maize has been linked to improper drying and storage practices, highlighting the critical importance of stringent post-harvest management to ensure food safety.

Mycotoxin contamination poses a significant threat to various stakeholders in the agricultural and food sectors, including farmers, feed producers, food processors, public authorities, and end consumers. These toxic compounds adversely affect animal health by impairing the gastrointestinal tract, suppressing the immune system, and disrupting nutrient absorption, leading to decreased productivity and increased susceptibility to diseases. Implementing a comprehensive 360-degree mitigation strategy—encompassing prevention, detection, regulation, and education—can effectively address this multifaceted issue and safeguard public health and economic interests.

The "Big 6" mycotoxins—aflatoxins, ochratoxins, fumonisins, zearalenone, deoxynivalenol (DON), and T2 toxin—are among the most prevalent and toxic secondary metabolites produced by molds affecting agricultural commodities. These toxins impact various species differently; for instance, aflatoxins primarily affect liver function in mammals, while zearalenone exhibits estrogenic effects leading to reproductive issues in ruminants and pigs. The incidence and severity of mycotoxin contamination are influenced by environmental factors such as temperature, humidity, and rainfall, which can create conducive conditions for mold growth and toxin production. Not all mycotoxins are equally toxic across species; for example, DON is highly toxic to

swine, whereas poultry are less affected. Climate change exacerbates the problem by altering weather patterns, potentially increasing the prevalence and distribution of mycotoxins in crops.

Aflatoxins occur worldwide in feed andfeed stuffs which results in severe economic loss to poultry and livestock industries. Theextent of Aflatoxin contamination varies with geographic location, farming methods and the susceptibility of commodities to fungal invasion during pre-harvest, storage, and processingperiods.Numerous studies showed negative effects of Aflatoxin in broiler chickens including adecrease in the efficiency of feed utilization and body weight gain, liver damage, poorimmune response, and increased mortality. Aflatoxin is shown to induce pathological alterations in important organs such as the liver, kidneys, and lymphoid organs.

Furthermore, the transmission of aflatoxin B1(AFB1) and its metabolites from feed to animal edible tissuesand products, such as the liver and eggs, becomes particularly important as a potentialhazard for human health.Given the global economic importance of Aflatoxin, many strategies have been tried tominimize their negative impact. A successful prevention strategy must be economical andcapable of eliminating all traces of toxin without leaving harmful residues and shouldnot impair the nutritional quality of the commodities. Extensive research has beencarried out using adsorbent (binder) materials that adsorbs to Aflatoxin molecule by means ofion exchange and thereby preventing their absorption into blood circulation. Amongvarious binding agents, clays and yeast cell wall materials are the most tested.Silicates are the main group of clays that are studied extensively in terms of Aflatoxin binding.These include tectosilicates (zeolites), 1:1 phyllosilicates (kaolinite), 2:1 phyllosilicates (smectites, vermiculites, chlorites, micas) and sepiolite. All silicates, however, are not thesame in terms of their ability to bind Aflatoxin and among the above, smectites have shown greaterbinding efficacy against Aflatoxin.

The ability of smectite clays to bind mycotoxins depends on pHin the gut, molecular arrangements, and its geographic region of origin. Smectite clayspossess high Aflatoxin adsorption capacity due to its high surface area, ion exchange capacity,and ability to swell in the presence of water, and the efficacy has been proven in vivo inbroiler chickens. The leading hypothesis on the bonding mechanism between adsorbedaflatoxins and smectites is the electron donor–acceptor (EDA) model. Other models suchas selective chemisorption, H-bonding, and bonding through furan rings were proposed.

The supplementation of smectite clay in feed to aflatoxin challenged broilers considerably reduced the magnitude of toxic effects ofaflatoxin and improved growth and immune response. Hence, smectite clay could besuccessively used in feed to ameliorate the toxic effects of aflatoxins in broiler chickens.

Aflatoxin B1 (AFB1), deoxynivalenol (DON) and ochratoxin A (OTA)are ones of the most common and dangerous mycotoxins. AFB1, produced mainly by Aspergillus,is one of the most poisonous toxins, which is classified as Group Icarcinogen by the World Health Organization due to its hepatoxicity,immunotoxicity, mutagenicity, genotoxicity, and carcinogenicity onvariety of animals. DON, produced by many Fusarium molds, contamination in feedsinduces anorexia, emesis, and damage to intestinal barrier and immune function in animals through suppressing the synthesis of nucleic and proteins . OTA, a toxic metabolite from Aspergillusand Penicillium molds, possesses hepatoxic, nephrotoxic, neurotoxic,immunotoxic, and teratogenic effects on liver and kidney. Long-term epidemiological

investigations haveshown that most of the global feed is exposed to more than one mycotoxin, and mycotoxin contamination of food and animal feed is aworldwide problem. Meanwhile, when three mycotoxins co-existed in the poultry feeds, theirinteraction have been further associated with significant alterations inthe productivity and profitability of animals. Therefore, development of remediation strategies to prevent or mitigate the mycotoxicosis isimperative.

Trouw Nutrition's TOXO® range offers a suite of mycotoxin binders designed to mitigate the negative effects of mycotoxin contamination in animal feed. These products are formulated to support animal health and performance by reducing the bioavailability of harmful mycotoxins. These products are part of Trouw Nutrition's comprehensive approach to mycotoxin risk management, aiming to ensure feed safety and optimize animal health and performance.

TOXO®-MX: Precision for Aflatoxins

TOXO®-MX is a specialized binder formulated to combat aflatoxins, particularly Aflatoxin B1, which can adversely affect dairy cows and other livestock. By incorporating purified smectite clays, TOXO®-MX effectively reduces the bioavailability of aflatoxins in the gastrointestinal tract. This reduction leads to a significant decrease in the excretion of Aflatoxin M1 in milk, ensuring compliance with regulatory standards and safeguarding consumer health. Additionally, TOXO®-MX enhances feed efficiency, as evidenced by improved milk production per kilogram of dry matter ingested in dairy cows.

TOXO®-XL: Comprehensive Protection Against Fusarium Mycotoxins

TOXO®-XL is an advanced binder designed to address the challenges posed by Fusarium-related mycotoxins, such as trichothecenes and fumonisins. This product combines smectite clays with specifically selected glucose biopolymers and purified â-glucans, which work synergistically to reinforce intestinal barrier function and modulate the immune response. The result is a comprehensive solution that not only binds and eliminates mycotoxins but also mitigates performance impairments caused by their exposure.

TOXO®: Broad-Spectrum Mycotoxin Binder

TOXO® serves as a versatile, broad-spectrum mycotoxin binder suitable for various animal species. It utilizes smectite clays to effectively reduce the bioavailability of a wide range of mycotoxins, including aflatoxins, ochratoxins, and zearalenone. By preventing the absorption of these toxins, TOXO® helps maintain animal health and performance, making it an essential component of comprehensive mycotoxin risk management strategies.

Collectively, the TOXO® product range represents a holistic approach to mycotoxin risk management, integrating advanced scientific formulations to protect animal health and ensure the safety of the food chain.

Sustaining Efficacy in Coccidiosis Control

Dr. Priyanka Kamble, Sr. Marketing Manager, Huvepharma SEA

Coccidiosis remains one of the most economically damaging diseases in poultry farming, globally affecting bird health, growth rates, feed conversion, and ultimately, profitability. Caused by protozoan parasites of the *Eimeria* genus, this disease targets the Gut Health and is nearly impossible to eradicate completely. The key to effective management lies in **long-term control**, with the primary goal being to maintain **low coccidial pressure** throughout the production cycle.

At **Huvepharma**, we emphasize the importance of **rotating coccidiostats** as a cornerstone strategy in the battle against coccidiosis. The practice of rotation is not just about maintaining performance; it's about **preserving efficacy** and **delaying resistance development**—especially in an era where no new coccidiostat molecules are expected in the near future.

Understanding the Need for Rotation

Coccidiostats have been used in commercial poultry production for decades. While they are indispensable tools, their **overuse or misuse can lead to resistance**. *Eimeria* parasites can adapt to the same anticoccidial product if it's used repeatedly without rotation, rendering it less effective over time.

By **alternating between ionophores and synthetic molecules** or using different combinations strategically across and within production cycles, producers can reduce the selective pressure on parasites and preserve product efficacy.

Field Evidence: Resistance Is real

A compelling example comes from a large **European poultry integrator** that used the same combination product (nicarbazin/narasin) for **over four consecutive years**. Although the inophore used post-combination was rotated between narasin, salinomycin, and monensin three times a year, the producers **did not see the need to switch to a newer combination** like **Monicox®** (nicarbazin/monensin), as field performance appeared acceptable.

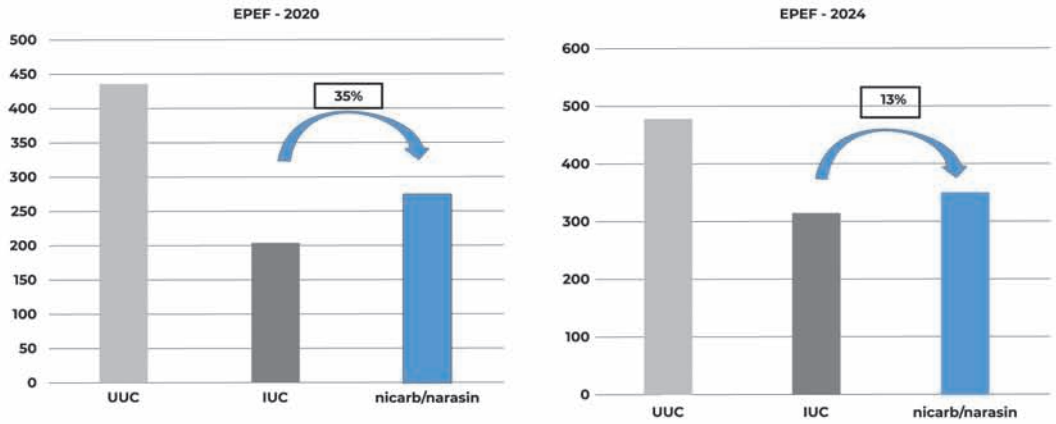

Figure 1. AST performance results from samples taken in 2020 (left) and 2024 (right)

To evaluate this practice, **Huvepharma conducted field sampling and anticoccidial sensitivity trials (AST) in 2020 and again in 2024**. In 2020, the performance improvement of the existing combination product versus an infected, untreated control (IUC) was **35%**, indicating good efficacy.

However, by 2024, the same product only showed a **13% improvement**, a level considered to provide **minimal benefit**. In just four years, the **efficacy had dropped by more than half**.

A second example of the benefit of rotation comes from field data generated by another European poultry producer. Prior to the trial there were not many rotations. In the summer of 2022, the producer decided to do a chemical break with Stenorol. Figure 2 shows the evolution of the European production efficiency factor (EPEF) before, during and after the chemical break. Before the break, the nicarbazin/narasin combination product was used in the starter diet. After the break, Monicox® (nicarbazin/monensin) was used in the starter diet. The graph clearly shows the benefit this chemical break brought to the company. For the first time they were able to reach an EPEF of more than 400.

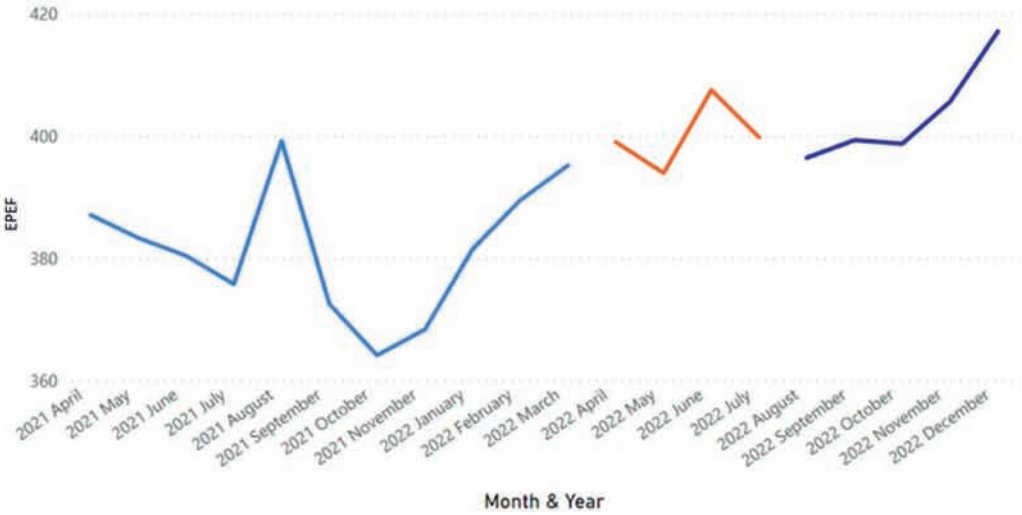

Figure 2. Evolution of the European production efficiency factor (EPEF) from early 2021 to the end of 2022.

Figures 3 and 4 show the improvement in EPEF was mainly driven by a lower feed conversion rate (FCR), although the growth was positively influenced by the chemical break and rotation to **Monicox®**

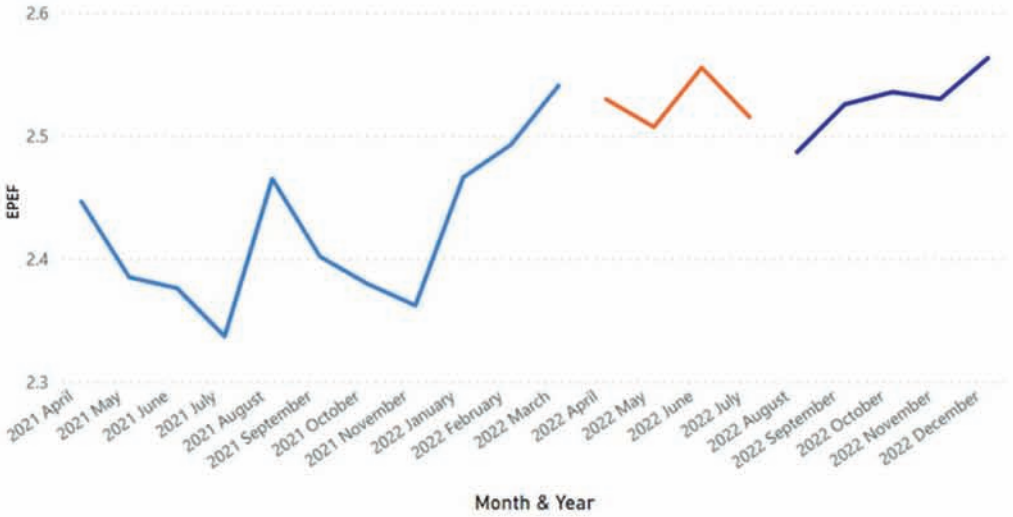

Figure 3. Evolution of adjusted weight from early 2021 to the end of 2022

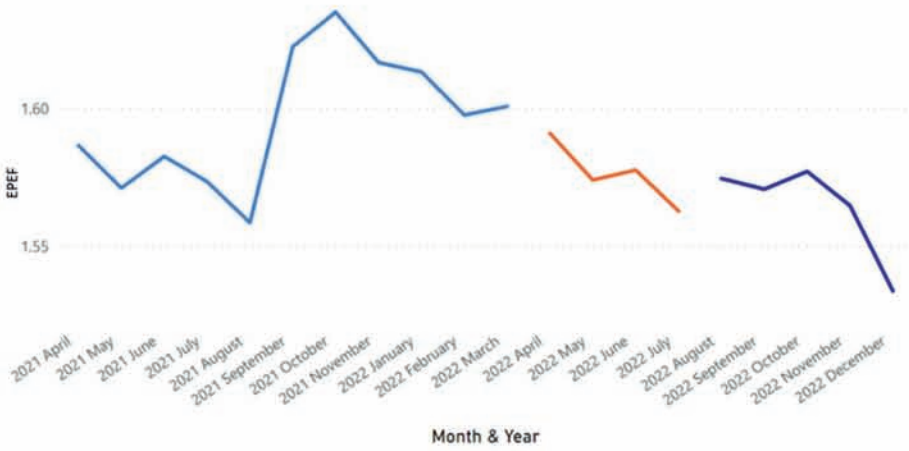

Figure 4. Evolution of adjusted FCR from early 2021 to the end of 2022

Following this clear evidence of reduced sensitivity, the integrator **revised their anticoccidial strategy**, adopting **Monicox®** and implementing a **rotation with another effective combination product**, resulting in significant field performance improvements.

The Iceberg Effect: What You Don't See Can Hurt Performance

Even when problems in the field are not obvious, **failure to rotate coccidiostats inevitably impacts performance**. This is why the **visual of an iceberg** is often used when discussing coccidiosis—the visible symptoms are only a fraction of the problem. Much of the **damage occurs subclinically,** hidden beneath the surface and often unnoticed by producers.

This makes timely and science-based decisions all the more challenging. But the principle is simple: **overusing any single product will reduce its effectiveness** over time. This principle applies not only to anticoccidials, but to **all disease control tools** across veterinary medicine.

All data shown in this article was gathered using Aviapp®, the poultry performance platform from Huvepharma that enables precision monitoring and evidence-based decision-making in commercial production environments.

Huvepharma's Science-Driven Approch

We advocate for **structured anticoccidial programs** that involve:

- **Shuttle Programs:** Using different products in the starter and grower phases within a single cycle.
- **Full Rotation Programs:** Changing molecules or combination products across successive cycles.
- **Resistance Monitoring:** Regular AST and field surveillance to guide decision-making.
- **Integrated Solutions:** Combining coccidiostats with good management, biosecurity, and vaccination where appropriate.

Conclusion

The case of the European integrator illustrates a broader truth: **perceived short-term stability can mask underlying resistance development**. Coccidiosis control is a long game, and **rotation is not optional—it's essential**. With no new molecules in the pipeline, the poultry industry must act responsibly to safeguard the tools we have. At Huvepharma, we provide producers with **scientific, field-proven solutions** to manage coccidiosis more effectively—ensuring healthier flocks and sustainable performance.

Transforming Animal Nutrition: Antibiotic Stewardship And Utilizing Local Ingredients

At the recent Innovation Summit Southeast Asia 2025, Ed Manchester, Global Commercial Director of Ecolex Animal Nutrition, delivered a keynote presentation titled "Innovation, Commodities and Food Security."

During the Q&A session, Ed shared concrete examples of how Ecolex's animal nutrition products contribute to reducing reliance on antibiotics and promote the use of local raw materials.

He explained that "Ecolex has developed innovative feed additives targeting gut health, which are key to reducing antibiotic reliance, as well as improved animal performance which can optimise the raw material usage. We achieve this through incorporating advanced emulsification technologies that enhance the biopotency of natural antimicrobial molecules and also can enhance the nutritional bioavailability from ingredient matrices." He highlighted, in poultry, our innovative nutritional additive applications have improved gut health, leading to higher productivity and reduced disease incidence, enabling producers to lower or eliminate antibiotic use without sacrificing performance.

For example, the natural antimicrobial feed additive Lipo ZAP, which uses the Ecolex Emulsion System to enhance the antimicrobial activity of the medium chain fatty acid, monolaurin. This reduces the risk of disease while enhancing the growth performance of livestock naturally, without contributing to antibiotic resistance. Our innovations also help manage risks from local feed ingredients by improving nutrient absorption. We have seen significant reductions in antibiotic use with simultaneous improvements in growth rates and lower mortality.

He noted that selecting the right feed additive(s) is critical, as they contribute to a healthier gut environment, enhance nutrient absorption, and improve overall animal resilience. However, it's a question of picking additives that make sense given the challenges and production objectives of your particular situation. By supporting animal health through nutrition, Ecolex enables producers to meet market demands for "antibiotic-free" products while safeguarding animal welfare, profitability, and environmental sustainability.


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PVS GROUP Hosts Landmark Vet Meet 2025: Launches Game-Changing Products METABO VET & CALCYBALLS

PVS GROUP marked a significant milestone in its commitment to advancing animal healthcare with the successful hosting of the PVS Veterinary Dealers Meet 2025. The event welcomed over 100 esteemed distributors and 40 experienced veterinarians from Andhra Pradesh and Telangana, coming together for a day of collaborative learning, product innovation, and future-focused discussions on livestock wellness.

Held in an atmosphere brimming with enthusiasm and professional exchange, the highlight of the event was the grand launch of two pioneering veterinary products developed by PVS GROUP:

METABO VET - A specially formulated metabolic enhancer aimed at boosting recovery and improving energy metabolism in large animals such as cattle.

CALCYBALLS - A high-impact calcium supplement designed for cows, buffaloes, sheep, and goats, targeting efficient calcium absorption and improved bone health.

Both products were met with tremendous appreciation and confidence from the attending veterinarians, affirming PVS GROUP's reputation for excellence and innovation in the field of veterinary healthcare.

"Veterinary health is a cornerstone of agricultural sustainability, and this meet reaffirms our dedication to equipping professionals with solutions that truly make a difference," said a senior spokesperson from PVS GROUP-DR PVS. "The response to METABO VET and CALCYBALLS has been incredible, and we are proud to support the animal health community with products that reflect quality and research."

The event also included interactive sessions, expert talks, and live feedback from practitioners, creating a space for meaningful dialogue on emerging challenges and the latest advancements in veterinary science.

As the curtains closed on this vibrant gathering, one thing was clear - PVS GROUP continues to lead with innovation, integrity, and impact, fostering stronger partnerships with those who share its vision of a healthier, more resilient livestock ecosystem.

About PVS GROUP

PVS GROUP is a leader in the animal healthcare industry, delivering science-backed, practical solutions for veterinary professionals across India and around globe. With a strong presence in nutritional supplements, therapeutics, and biologicals, PVS remains steadfast in enhancing the productivity and welfare of livestock through cutting-edge veterinary care.

Disaster Preparedness for Poultry Farmers

Kh. Shamsul Alam,
Agriculturist, Owner of Poultry Disease Diagnostic Lab

Due to global climate change, various man-made factors are causing rapid changes in weather patterns, such as an increase in solar intensity, heavy rainfall, and long-term climate shifts. Excessive greenhouse gases like carbon dioxide, methane, nitrous oxide, and chlorofluorocarbon emissions are the primary contributors to environmental warming, which in turn is driving climate change.

The weather in September and October can be particularly challenging for poultry farmers in our sub continent. Rain, humidity, and temperature fluctuations during this period can negatively affect poultry health. To ensure the health of layers and broilers and to maintain production levels, the following measures should be considered:

1. Temperature and Humidity Control:

Temperature: When temperatures reach 37-40°C, egg and meat production can decrease due to heat stress. Therefore, the optimal temperature in poultry houses should be maintained between 20-30°C. Environmental control systems like fans, coolers, and heaters can be used to regulate temperature.

Humidity: High humidity can promote the growth of fungi and bacteria, which can lead to poultry diseases. Ensuring proper ventilation and keeping the poultry house dry are essential to avoid the buildup of moisture that could lead to reduced egg and meat production or even death.

2. Disease Prevention and Vaccination:

Vaccination and Medication: During this period, the risk of disease increases. Regular blood tests, vaccinations, and proper medication should be administered. Antibiotic sensitivity tests should also be conducted.

Health Monitoring: The farm manager should regularly monitor the health of the poultry and take immediate action if any signs of illness are observed.

3. Ensuring Proper Nutrition:

High-Quality Feed: High temperatures and humidity can degrade the quality of poultry feed, leading to aflatoxin contamination and food poisoning. This can result in deficiencies of protein, vitamins, and minerals. Therefore, the poultry diet should be adjusted to maintain a balanced intake of nutrients.

Sufficient Water: Fresh, cool water should always be available for the birds. In hot weather, poultry tends to drink more water, so a continuous supply of water is crucial.

Electrolyte Supplementation: Electrolytes like potassium, sodium, magnesium, and calcium should be added to water to help maintain the body's balance and reduce heat stress.

4. Proper Ventilation and Cleanliness:

Ventilation: Climate change has become a silent threat to the poultry industry. Excessive heat and humidity are causing widespread heat strokes and deaths in poultry farms. It's crucial to maintain good airflow in poultry houses to reduce heat and keep the environment cool and dry.

Cleanliness: Regular cleaning of the poultry house and surroundings is essential, particularly to prevent waterlogging and accumulation of dirt, which can lead to diseases.

5. Reducing Stress:

Stress Management: Poultry may experience heat stress due to intense heat and humidity, which can negatively affect their health and production. Proper management practices like controlling light, reducing noise, and ensuring adequate ventilation can help alleviate stress.

Misting System: Installing a misting system can reduce the temperature inside the poultry house and maintain humidity levels.

6. Adequate Space:

Sufficient Space: Ensure that the poultry has enough space to move around and avoid overcrowding, which can lead to heat buildup and increase stress.

7. Timely Services:

Feeding During Cooler Hours: Poultry should be fed during cooler times of the day, such as early morning or evening, to encourage eating and prevent heat stress.

8. Behavioral Monitoring:

Monitor Poultry Behavior: Keep an eye on any abnormal behavior or signs of respiratory issues, as well as problems with egg production, and take immediate action if necessary.

Conclusion:

By implementing these measures, including ensuring a cool environment, providing proper nutrition, and supplying enough cool water, poultry farmers can help their birds cope with the heat stress and maintain good production levels.

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PART – II

Emerging Technologies in Poultry farming: Enhancing Sustainability and Efficiency in Poultry Production

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Practical Applications

- Heart Rate Monitoring: Sensors connected to the smartphone app measure the heart rate of embryos, ensuring they are within the optimal range for development.
- Alerts and Notifications: The app can send alerts and notifications if the heart rate deviates from the normal range, prompting farmers to check on the embryos and take necessary action.
- Integration with Other Systems: These apps can be integrated with other farm management systems and technologies to provide a comprehensive view of the incubation environment and overall poultry health.

Impact on Poultry Farming

- Improved Embryo Viability: Monitoring and timely interventions help improve the viability of embryos, leading to higher hatch rates.
- Enhanced Efficiency: Farmers can manage incubation more efficiently, reducing the time and effort required to manually check on embryos.
- Better Resource Utilization: By preventing embryo loss, farmers can make better use of their resources, ultimately leading to cost savings and increased productivity.

Incorporating smartphone apps with compatible sensors into poultry farming practices provides farmers with a powerful tool for ensuring the health and successful development of their embryos, contributing to more efficient and sustainable poultry production.

Acoustic Analysis in Poultry Farming

Acoustic analysis is an effective method for obtaining crucial data on the welfare of chickens through the monitoring of their vocalizations. This non-invasive technique provides insights into various aspects of chicken health and behavior, allowing for early detection of issues.

Key Applications and Benefits

1. Welfare Monitoring: Chicken vocalizations can indicate problems with development, illness, feather pecking, social disruption, or thermal discomfort. Acoustic sensors can capture these sounds, providing valuable data on the welfare of the flock.
2. Early Warning System: Recent studies have shown that monitoring chicken vocalizations with machine learning algorithms is a reliable method for early detection of welfare issues. This allows farmers to take timely action to address problems.
3. Feed Intake Monitoring: By analyzing the pecking noises of hens and turkeys, it is possible to track the amount of grain they are consuming. This helps in ensuring proper nutrition and adjusting feeding strategies as needed.
4. Respiratory Health Tracking: The detection of sneezes through acoustic analysis can be used to monitor respiratory ailments. Early identification of respiratory issues enables prompt treatment, reducing the spread of disease and improving overall flock health.

Implementation in Poultry Farming

- Vocalization Analysis: Sensors equipped with machine learning algorithms analyze vocalizations to detect patterns and anomalies that may indicate health or welfare issues.
- Non-Invasive Monitoring: Acoustic analysis is non-invasive, reducing stress on the birds and providing continuous, real-time monitoring without the need for physical handling.
- Integration with Farm Management Systems

Blockchain Technology in Poultry Farming

Blockchain technology holds significant potential for improving the detection and tracking of Avian influenza and managing recent increases in salmonella outbreaks (Lin et al., 2018).

Key Benefits and Applications

1. Traceability: Blockchain provides a secure and transparent way to trace the origin and movement of poultry products throughout the supply chain. This traceability is crucial for quickly identifying and isolating sources of infection during disease outbreaks.

2. Data Integrity: Information recorded on a blockchain is immutable, ensuring the accuracy and reliability of data related to poultry health, vaccination records, and farm practices. This enhances trust among stakeholders and improves decision-making.
3. Real-Time Tracking: Blockchain enables real-time tracking of poultry products, allowing for immediate action if a potential contamination or disease outbreak is detected. This reduces the time needed to respond and mitigates the spread of disease.
4. Enhanced Food Safety: By integrating blockchain with other technologies, such as sensors and IoT devices, farmers can create a comprehensive system for monitoring and ensuring food safety. This can help in managing salmonella outbreaks and other foodborne illnesses.
5. Efficient Record-Keeping: Blockchain simplifies record-keeping by providing a single, decentralized ledger where all relevant data is stored. This reduces administrative burden and enhances the efficiency of regulatory compliance.

Practical Implementation

- Disease Tracking: Using blockchain, data on the incidence of Avian influenza and salmonella can be securely recorded and shared among relevant authorities and stakeholders. This ensures rapid response and coordinated efforts to contain outbreaks.
- Supply Chain Transparency: Blockchain allows consumers to trace the journey of poultry products from farm to table, increasing transparency and trust in the supply chain. This is particularly valuable during recalls and public health alerts.
- Integration with Sensor Data: Blockchain can be integrated with sensors and other monitoring technologies to provide real-time data on environmental conditions, animal health, and biosecurity measures. This holistic approach enhances overall farm management.

Impact on Poultry Farming

- Improved Disease Management: Blockchain's ability to securely track and share data enhances the management of infectious diseases, reducing the impact of outbreaks.
- Enhanced Consumer Trust: Transparent supply chain practices build consumer confidence in the safety and quality of poultry products.
- Regulatory Compliance: Blockchain simplifies compliance with regulatory requirements by providing accurate and accessible records of farm practices and product history.

By incorporating blockchain technology into poultry farming, the industry can achieve better disease control, improve food safety, and enhance overall efficiency and transparency in the supply chain.

Voice Activity Detection (VAD) Algorithms in Poultry Farming

Voice activity detection (VAD) algorithms have shown promise in distinguishing between healthy and sick chicks by extracting animal vocalizations from background noise. According to Mahdavian et al. (2020), these algorithms can accurately detect respiratory illnesses in poultry.

Key Applications and Benefits

1. Health Monitoring: VAD algorithms analyze vocalizations to identify signs of respiratory illnesses and other health issues in poultry. This non-invasive method allows for continuous monitoring without disturbing the birds.
2. Early Disease Detection: By distinguishing between healthy and sick vocalizations, VAD algorithms enable early detection of diseases, allowing farmers to take timely action and prevent the spread of illness.
3. Accuracy: The study by Mahdavian et al. (2020) reported an accuracy of 72% for detecting sick hens and 95% for identifying healthy fowl, demonstrating the effectiveness of VAD algorithms in health monitoring.

Practical Implementation

- Vocalization Analysis: VAD algorithms process the vocalizations of chicks, filtering out background noise to focus on the specific sounds made by the birds. This analysis helps identify patterns associated with health and sickness.
- Real-Time Monitoring: Integrating VAD algorithms with farm management systems allows for real-time monitoring of poultry vocalizations. Farmers receive alerts when the algorithms detect signs of respiratory illness or other health issues.
- Integration with Other Technologies: VAD algorithms can be combined with other monitoring tools, such as biometric sensors and acoustic analysis, to provide a comprehensive health monitoring system.

Impact on Poultry Farming

- Improved Health Management: Early detection of diseases through VAD algorithms enhances health management, reducing the impact of illness on poultry populations.
- Reduced Mortality Rates: Timely intervention based on VAD alerts can decrease mortality rates by addressing health issues before they become severe.
- Enhanced Animal Welfare: Non-invasive monitoring methods reduce stress on the birds and contribute to better overall welfare.
- Cost-Effective: Implementing VAD algorithms can lead to cost savings by reducing the need for manual health checks and minimizing losses due to disease.

By incorporating voice activity detection algorithms into poultry farming practices, farmers can achieve more effective and efficient health monitoring, ultimately improving the well-being and productivity of their flocks.

Optoelectronic Sensors in Poultry Farming

Optoelectronic sensors have shown significant promise in enhancing the detection of pathogens in poultry, such as adenovirus. According to Ahmed et al. (2018), these sensors, particularly those with gold nano-bundles, are approximately 100 times more sensitive than traditional methods.

Key Benefits and Applications

1. High Sensitivity: Optoelectronic sensors with gold nano-bundles offer extreme sensitivity, enabling the detection of low concentrations of pathogens like adenovirus. This enhanced sensitivity improves early detection and monitoring.
2. Precision: These sensors provide precise measurements by responding to electrical signals in proportion to the amount of incident light, ensuring accurate detection of pathogens.
3. Ultrasensitive Biosensors: The development of ultrasensitive, reliable, and precise biosensors using optoelectronic technology is gaining momentum, advancing practical applications in poultry health monitoring.
4. Early Detection: Improved sensitivity allows for the early detection of diseases, which is crucial for managing outbreaks and minimizing the impact on poultry health.

Practical Implementation

- Pathogen Detection: Optoelectronic sensors can be used to identify specific pathogens, such as adenovirus, by measuring the interaction between light and biological samples. This technology helps in monitoring and controlling disease outbreaks.
- Integration with Farm Systems: These sensors can be integrated into farm management systems to provide real-time data on pathogen levels and other health indicators.
- Enhanced Diagnostic Capabilities: The high sensitivity of optoelectronic sensors enhances diagnostic capabilities, leading to more effective and timely interventions.

Impact on Poultry Farming

- Improved Disease Management: Early and accurate detection of pathogens helps in better disease management, reducing the risk of widespread outbreaks.
- Enhanced Health Monitoring: Optoelectronic sensors provide precise and reliable data, improving overall health monitoring and management practices.
- Cost Efficiency: By enabling early detection and reducing the need for more invasive or expensive diagnostic methods, these sensors can lead to cost savings in poultry health management.

The introduction of optoelectronic sensors represents a significant advancement in poultry farming, offering enhanced sensitivity and precision for pathogen detection and contributing to improved health and productivity in poultry operations.

Nanocrystals (Chiral Zirconium Quantum Dots) in Poultry Farming

Chiral zirconium quantum dots, a type of nanocrystal, have been utilized in biosensors for detecting chicken coronavirus. According to Ahmed et al. (2018), these nanocrystals exhibit significant changes in their fluorescence lifetime due to energy coupling, which is crucial for enhancing the sensitivity and accuracy of disease detection.

Key Benefits and Applications

1. High Sensitivity: Chiral zirconium quantum dots provide highly sensitive detection capabilities. The fluorescence lifetime changes in response to the presence of chicken coronavirus, allowing for precise and early detection of the virus.
2. Fluorescence Lifetime Changes: The ability of these nanocrystals to alter their fluorescence lifetime based on energy coupling makes them effective for detecting minute quantities of pathogens, improving diagnostic accuracy.
3. Advanced Nano-Optics: Research into the optical properties of nanohybrids, including chiral zirconium quantum dots, is advancing the field of nano-optics. These studies focus on how optical alterations can be leveraged for technological improvements in biosensing.

Practical Implementation

- Pathogen Detection: Nanocrystals are used in biosensors to detect specific pathogens, such as chicken coronavirus, by measuring fluorescence changes. This technique enhances the accuracy and sensitivity of pathogen detection.
- Integration with Biosensors: Chiral zirconium quantum dots can be integrated into existing biosensor platforms to provide advanced detection capabilities, improving disease monitoring and management.
- Research and Development: Ongoing research into the optical properties of nanocrystals helps refine their use in biosensing applications and contributes to advancements in nano-optics technology.

Impact on Poultry Farming

- Enhanced Diagnostic Tools: The use of chiral zirconium quantum dots in biosensors improves diagnostic tools, allowing for more accurate and timely detection of diseases.
- Early Disease Detection: Early detection of pathogens such as chicken coronavirus can help prevent outbreaks and reduce the impact on poultry health and productivity.
- Technological Advancements: Research into nanocrystals and their optical properties drives technological advancements in biosensing and nano-optics, leading to more effective and innovative solutions for poultry farming.

By employing nanocrystals like chiral zirconium quantum dots, the poultry industry can benefit from advanced biosensing technologies, improving disease detection and overall farm management.

Chiro-Immuno-Sensors in Poultry Farming

Chiro-immuno-sensors, particularly those utilizing chiral gold nano-hybrids, represent a promising technique for detecting various diseases in poultry, including coronavirus, fowl adenovirus, and avian influenza.These sensors leverage the unique properties of chiral nanostructures to enhance the sensitivity and specificity of disease detection.

Key Benefits and Applications

1. Versatile Detection: Chiro-immuno-sensors can be used to detect a range of diseases, including:
   - Coronavirus
   - Fowl Adenovirus
   - Avian Influenza
2. Targeted Detection: For avian influenza (H5N1), these sensors are designed to specifically target the hemagglutinin (HA) and neuraminidase (NA) surface proteins of the virus. This specificity enhances the accuracy of the detection process.
3. Chiral Nanostructures: The use of chiral gold nano-hybrids in these sensors improves their ability to detect pathogens by exploiting the unique optical and chemical properties of chiral materials.
4. High Sensitivity and Specificity: The chiro-immuno-sensors offer high sensitivity and specificity, which are crucial for accurate disease diagnosis and monitoring in poultry.

Practical Implementation

- Disease Detection: Chiro-immuno-sensors can be used in diagnostic assays to detect specific pathogens by binding to their surface proteins. This allows for precise identification of diseases affecting poultry.
- Integration with Diagnostic Systems: These sensors can be integrated into diagnostic systems for real-time monitoring and early detection of poultry diseases.
- Research and Development: Ongoing research focuses on improving the performance and applicability of chiro-immuno-sensors, expanding their use in various diagnostic and monitoring scenarios.

Impact on Poultry Farming

- Improved Disease Management: Enhanced detection capabilities lead to better management of poultry diseases, reducing the impact of outbreaks.
- Early Intervention: Accurate and early detection allows for prompt intervention, minimizing disease spread and associated losses.
- Technological Advancements: The development of chiro-immuno-sensors contributes to advancements in diagnostic technologies, supporting the overall health and productivity of poultry operations.

Chiro-immuno-sensors using chiral gold nano-hybrids offer a sophisticated approach to disease detection in poultry, providing valuable tools for improving health management and preventing outbreaks.

Conclusions

Farmers today face the challenge of addressing customer concerns while managing big data, blockchain technology, biometric and biological sensors, and increasing poultry production. Precision livestock farming (PLF) technologies are well-positioned to meet the rising demand for poultry products driven by an expanding global population, all while addressing critical consumer concerns related to animal welfare, environmental sustainability, and public health.

Key Points:

1. Advancements in Technology: Precision poultry farming technologies, such as biometric and biological sensors, big data analytics, infrared thermometers, smartphone apps with integrated sensors, audio analysis, and blockchain technology, are at the forefront of enhancing poultry farming practices. These technologies offer numerous benefits, including:
   - Real-Time Data Collection: Sensors allow for the collection of data on animal welfare and health in real time, enabling farmers to take preventative measures and manage their flocks more effectively.
   - Improved Decision-Making: Big data analytics transform sensor data into actionable insights, helping farmers make informed decisions and improve operational efficiency.
2. Enhanced Transparency and Food Safety: Blockchain technology enhances food safety and consumer confidence by providing greater transparency and traceability in poultry production. This transparency helps build trust with consumers by ensuring that poultry products are produced and handled according to high standards.
3. Integration of Technologies: While technologies like big data and integrated biological sensors offer significant potential, they are less common compared to simpler tools and sensors. The adoption and use of digital technology in poultry farming are often influenced by the specific husbandry system in place.
4. Public Participation and Co-Creation: The successful integration of digital technologies in poultry farming requires public participation and involvement. Innovations in digitalization solutions should be developed and validated through collaborative efforts to ensure they meet the needs of farmers and contribute to a digitally inclusive and healthy society.

In summary, the adoption of precision poultry farming technologies can significantly enhance poultry production while addressing key concerns about animal welfare, environmental impact, and food safety. To fully realize these benefits, it is crucial to integrate advanced technologies with practical, user-friendly tools and foster collaborative development and validation processes.


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