

Poultry Fortune

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- Editor



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Excellence and contribution to Poultry industry rewarded with PF Awards 2023

Karnataka High Court rules Poultry farming as agricultural activity and cannot be termed 'commercial' to levy any tax under Karnataka Gram Swaraj and Panchayat Raj Act

The intestine is responsible for facilitating the digestion and absorption of nutrients. It is the largest immune organ in the body, plays an invaluable role in sustaining normal immune defense (GALT - Gut Associated Lymphoid Tissue). The gut is currently assumed to play a central role in sustaining the normal function of other organs and in the pathogenesis of many diseases.



Dear Readers,

The October 2023 issue of Poultry Fortune is in your hands.

Poultry Fortune presented 25 Awards to the individuals, institutions and organisations who have excelled in their profession and

contributed to the development of Poultry industry in India. The Gala evening of **PF Awards 2023** presentation programme was held on 15 September 2023 at Hotel Novotel, Pune, Maharashtra, India.

Compound Livestock Feed Manufacturers Association of India organised its 64th National Symposium in August 2023 in New Delhi, which enriched its visibility. There was a good interaction between the Government of India policy makers and the industry stakeholders, who engaged themselves in discussing current livestock sector related issues. CLFMA had an august presence of national and international stakeholders in the symposium. Government and bureaucrats make the policies to take care and to safeguard the interests of people, industries, businesses and everything in a society and in a country, and it is their duty and responsibility. As everybody is aware the industry is struggling a lot. We feel that the CLFMA of India office bearers should have put concerted efforts and pressure with facts on the policy makers present on the dais for the promotion of domestic consumption of poultry and aquaculture products like eggs, chicken, shrimp and fish products besides promotion of export of these products.

Chr. Hansen India unveiled its latest innovation, GalliPro Fit, a three-strain bacterial probiotic product for Indian market in a recently held event in Hyderabad. The company is confident that the next-generation probiotic GalliPro Fit marks a significant advancement in poultry nutrition and health, combining three unique bacterial strains meticulously selected from a pool of over 50,000 candidates. This launch event highlighted the product's extraordinary efficacy and its potential to transform poultry industry in India. GalliPro Fit, a thoroughly researched, 3- strain bacterial product will bring benefits ranging from performance to tolerance to pathogen infection – something that is very much needed under Indian conditions wherein feed quality and environmental conditions fluctuate a lot.

Aviagen India introduced Mr Ramakrishna Balasubramanian as its new Business Manager. With a remarkable record of knowledge and proficiency, Ramakrishna will help ensure the success of Aviagen India and its valued customers. Since 1923, Aviagen has been a preferred global poultry breeding company with a mission to help its customers -- the world's chicken meat producers -- supply sustainable, affordable and nutritious protein to their growing communities. Aviagen's global headquarter is based in Huntsville, Alabama, USA., with operations across the UK, Europe, Turkey, Latin America, India, Australia, New Zealand, Africa and the US and joint ventures in Asia. The company employees close to 8,000 people and serves customers in 100 countries.

Contd on next page



Poultry Fortune

Our Mission

Poultry Fortune will strive to be the reliable source of information to poultry industry in India.

PF will give its opinion and suggest the industry what is needed in the interest of the stakeholders of the industry.

PF will strive to be The Forum to the Stakeholders of the industry for development and self-regulation.

PF will recognize the efforts and contribution of individuals, institutions and organizations for the development of poultry industry in the country through annual Awards presentation.

PF will strive to maintain quality and standards at all times.

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Hy-Line de Mexico held a customer breakfast meeting with Tom Dixon presenting on the latest genetic advancements of the Hy-Line W-80 while Mauricio Sanabria outlined the overall Latin America market and Hy-Line's genetics program. 250 layer customers and allied industry people attended the Hy-Line meeting. Avecao's annual meeting attracts the local Jalisco and some attendees from other parts of Mexico and is growing in popularity with a commercial area with poultry industry suppliers present and leading domestic and international experts speaking on the latest issues affecting the Mexico egg industry. Egg-breakers around the world search to harvest egg solids.

Lallemand Animal Nutrition announced its sponsorship of the XXII Congress of the World Veterinary Poultry Association. As a leading advocate for microbial-based solutions in the poultry industry, Lallemand's technical poultry team will be attending the event to present two new studies. This highly anticipated gathering of global experts and scientists offers valuable opportunities to exchange information about the latest advances in poultry veterinary science, encompassing a wide range of key topics within the field. "We are thrilled to support this year's Congress of the WVPA and present our latest research findings," commented Florence Barbé.

Lumis Enzymes organized multiple seminars in South East Asia that covered various key topics like the El Nino challenges which has globally impacted the climatic conditions, the variability and non-availability of essential ingredients due to reduced harvests and the inflation of ingredient prices. The seminars also addressed various geopolitical issues causing widespread implications on the international trade and also trade ban on certain key ingredients. The seminars highlighted the need of sourcing alternate ingredients and the adoption of sustainable practices to minimize the environmental impact. The seminars were led by eminent speakers with extensive knowledge and several years of experience in the feed industry.

Venky's India Ltd organised series of Technical Seminars at Raipur, Karnal, Hyderabad, Coimbatore and Bangalore on 11 – 15 September 2023. The resource person for the Seminar was Dr Josep Garcia, Global technical lead for toxin solutions at agrimprove an international expert on Mycotoxins from Special Nutrient Inc, USA and who has experience of more than 40 years in the same field. The topic of seminars was on Multiple toxins challenges in feed and its solutions. Dr Josep Garcia reminded about the critical role of immunosuppression caused by Mycotoxins and its role in Vaccine failure. He emphasized that one should be very careful while selecting a Toxin Binder as some agent such as activated charcoal if included in Toxin Binder may have deleterious effects as activated charcoal also binds nutrients such as vitamins and minerals from the feed. Biobantox Plus takes care of Mycotoxins, Endotoxins and Pesticides.

EW Nutrition, a leading global provider of functional animal nutrition solutions, welcomes Jan Vanbrabant as its new Chief Executive Officer. We are very pleased that we have found a strong management lead in Jan, who embodies the philosophy of EW Nutrition, says Jan Wesjohann, Managing Director of parent company EW Group. EW Nutrition is an innovation-driven company, with intensive investment in R&D. Together with Jan we are looking to enter the next growth phase of EW Nutrition. EW Nutrition is a global animal nutrition company that offers integrators, feed companies, and veterinarians comprehensive solutions for animal gut health

and performance, feed quality, digestibility and more. It is focused on promoting sustainable growth through reduced FCR, natural support against challenges, reduced need for antibiotics and planet-friendly protein production.

Poultry-farming is an agricultural activity and cannot be termed "commercial" entitling the gram panchayat to levy any tax under Karnataka Gram Swaraj and Panchayat Raj Act, the Karnataka High Court ruled recently.

Mr Chitturi Jagapati Rao, Chariman, Srinivasa Farms Pvt Ltd was honoured with Life Time Achievement Award at SIBA 2023 in Dubai on 14 September 2023. The guest of honour for the event was Mr Venkaiah Naidu, former Vice President of India. Venkaiah Naidu felicitated esteemed dignitaries for their immense contributions to Agricultural industries.

In the Articles Section – Non - Refrigerated Methods of Preservation of Table Eggs authored by K.S. Shubhankar and R. Amutha, said Eggs are an important and in expensive source of high-quality protein, vitamins and minerals; consumed as food; functional components of other food products. However, Eggs are highly perishable, quickly losing their quality in the absence of proper storage methods. The egg shell has a natural cuticle that seals its pores which helps to prevent the entry of bacteria and loss of moisture. This cuticle is fragile and easily lost during washing procedures, which is necessary to ensure cleanliness and minimize initial contamination. In developing regions of the world where refrigeration of eggs is seldom practiced because of cost, availability or feasibility, coating with available in expensive materials like oil can go a long way to reducing both qualitative and economic losses. The methods for the preservation of the egg shell are based on the simple principle of retarding microbial growth and sealing the pores of the shell to minimize the evaporation and escape of gases, thus reducing the physio-chemical changes in the egg. Sometimes, a combination of methods is employed for effective preservation.

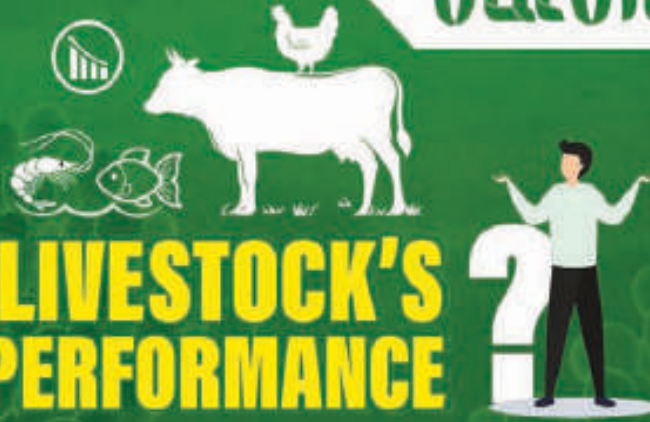
Another article titled – Role of Gut Axis in Spread of Enteric Infections to other Organs in Poultry, authored by Prof. Dr R. N. Sreenivas Gowda, discussed that the digestive tract of vertebrate animals is complex and has evolved to serve its primary function of supplying nutrients to the host animal, while at the same time serving as a barrier to infection and harm from compounds within the digestive tract. It is also called as gastrointestinal tract, the lining of which is the largest surface of an animal's body that faces the external environment, has been considered as a sensory organ. It is commonly referred as GUT. The intestine is responsible for facilitating the digestion and absorption of nutrients. It is the largest immune organ in the body, plays an invaluable role in sustaining normal immune defense (GALT - Gut Associated Lymphoid Tissue). The gut is currently assumed to play a central role in sustaining the normal function of other organs and in the pathogenesis of many diseases. The GI tract has the most extensive exposed surface in the body, and a wide variety of factors associated with diet and infectious disease agents can negatively affect the delicate balance among the components of the chicken gut. Disturbances in this balance may affect health status and productive performance of birds in commercial poultry operations.

M.A.Nazeer
Editor & Publisher
Poultry Fortune

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Chr Hansen India launches a Next - Generation, three strains, Poultry Feed Probiotic Product “GalliPro Fit”



Prominent speakers at the launch of GalliPro Fit product, Dr K. Jayaraman, Poultry consultant, Jean - Christophe Bodin, Head of the APAC animal health business; Dutta Siva Subramaniam, Head of Tara Enterprises and Anurag Chadha, Country Manager India, Chr Hansen.

GalliPro Fit, the easy choice. Chr. Hansen India proudly unveiled its latest innovation, GalliPro Fit, a three-strain bacterial probiotic product for Indian market in a recently concluded event in Hyderabad on the 21st August. The event was jointly hosted by Chr. Hansen and Tara Enterprises.

This next-generation probiotic GalliPro Fit marks a significant advancement in poultry nutrition and health, combining three unique bacterial strains meticulously selected from a pool of over 50,000 candidates. GalliPro Fit is set to revolutionize the Indian poultry market by offering a holistic approach to enhancing

poultry health, improving food safety, boosting profitability and reducing risks associated with pathogen infections. This launch event, attended by key industry experts and Chr. Hansen's leadership team, highlighted the product's extraordinary efficacy and its potential to transform the poultry industry in India.

GalliPro Fit proven efficacy in the following key areas in research and field conditions:

- **Boosts prevention programs:** Modulate the immune system and prevent necrotic enteritis
- **Contributes to Food Safety:** Helps to keep pathogens like:

Salmonella spp. and *E. coli* under control

- **Brings Profitability:** Performance improvement and nutritional value drive strong profitability with a positive return
- **Risk reduction:** The effect of GalliPro Fit can be tested in customers' feeds. GalliPro Fit effect can be tested against the customer's farm pathogen
- **Easy:** GalliPro Fit incorporates three carefully selected heat-stable strains in one convenient bag, providing predictable and consistent outcomes

The launch event was attended by the Chr. Hansen India team; Mr Jean - Christophe Bodin, APAC Head of Sales, Animal and Plant health, Mr Anurag Chadha, Country manager Chr. Hansen, India, Ms Richa Sharan, Director marketing, Dr CB Gowda Rayapuram, Regional Manager commercial sales – India sub - continent, Animal and Plant health account managers, Dr Raghavendra Kumar and Dr Manjunath BN. Along with the Chr. Hansen team, eminent poultry expert Dr Jayaraman, experts from poultry feed additives, Mr Siva Dutta Subramaniam, Mr Sekar, Mr Manoj Garg, Mr Gopinath and many other business experts attended the launch event.

The event showcased, talks on -

1. Importance on probiotics in India poultry
2. Mode of action and the economic impact of GalliPro Fit in poultry and
3. Chr. Hansen's business in India in verticals other than animal health.

Mr Jean - Christophe Bodin (Msc., Agr.) APAC Head of Sales, Animal and Plant health – APAC

GalliPro Fit launch confirms that animal health and



Formal launch of GalliPro Fit product in India. The event jointly hosted by Chr Hansen India and Tara Enterprises



Other participants at the GalliPro Fit - our distributors, D.S.Subramaniam, Manoj Garg, Sekar, Gopinath and Richa Sharma, Marketing Director at Chr Hansen, Dr CB Gowda Rayapuram, Business and Sales Head, India along with other members of Chr Hansen Team

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Attendees at the launch of GalliPro Fit product; distributors of poultry feed and supplements, poultry business owners, consultants, press and others

nutrition are key areas for Chr. Hansen going forward, especially for poultry industry in India. The microbiome is important to a bird's ability to break down feed into its basic components and extract the vital nutrients needed for meat and egg production. It therefore stands to reason that safeguarding the integrity of this vast community of micro-organisms can help poultry producers protect the productivity of their flock and in turn, the profitability of their operations.

Dr CB Gowda Rayapuram, Regional Manager Commercial Sales – India sub - continent, Animal and Plant Health account managers invited the guests.

We are confident that GalliPro Fit, a thoroughly researched, strain 3 bacterial product will bring benefits ranging from performance to tolerance to pathogen infection – something that is very much needed under Indian conditions wherein feed quality and environmental conditions fluctuate a lot.

Aviagen India strengthens Team with Appointment of New Business Manager

Ramakrishna Balasubramanian will drive customer-centric growth through experience and dedication

13 September 2023

– Udumalpet, India:

Aviagen India proudly introduces Ramakrishna Balasubramanian as its new Business Manager. With a remarkable record of knowledge and proficiency, Balasubramanian will help ensure the success of Aviagen India and its valued customers. He takes over from previous Business Manager Marc Scott, who has led the India team over the past five years in establishing a solid foundation for the growth and success of Aviagen and its esteemed customer base.

With more than 25 years of poultry experience, including 13 years at Aviagen India and Hy-Line Layers, Balasubramanian has excelled across various positions, including administration, farming and operations, planning, sales and customer service.

He skillfully managed Hy-Line Layers' profit and loss, production, planning and customer support functions. His previous tenure in sales also saw a commendable expansion of Aviagen India's customer base. His demonstrated ability to manage challenging situations will prove to be of value to the ever-growing Aviagen India business.

As Business Manager for India, Balasubramanian will spearhead Aviagen India operations, encompassing production, feed mills and laboratory functions.



Dr Ramakrishna Balasubramanian, New Business Manager, Aviagen, India

Based in the Tamil Nadu region, his role involves financial, commercial and production oversight. He will lead the execution of strategic plans, manage profit and loss, guide his team to ensure seamless implementation, ensure the needs of the customer base, maintain production and service excellence and ensure compliance with all legal and regulatory requirements. Reporting to President of Aviagen Asia Peter Fisher, Balasubramanian will work closely with the Asia regional and global teams.

He is fluent in multiple languages, including English, Hindi, Tamil, Telugu and achieved a Bachelor of Veterinary Science degree from Veterinary College and Research Institute, Namakkal, Tamil Nadu.

Peter Fisher, President of Aviagen Asia, expressed his confidence in the new appointment, stating, "We are thrilled to welcome Ramakrishna and extend our best wishes as he undertakes this

strategically vital role. With his dynamic, customer-focused approach, Ramakrishna is poised to lead our business in India to new heights of success and growth."

About Aviagen

Since 1923, Aviagen has been a preferred global poultry breeding company with a mission to help its customers -- the world's chicken meat producers -- supply sustainable, affordable and nutritious protein to their growing communities. Putting into practice its corporate value of "Breeding for Welfare and Sustainability," Aviagen implements efficiencies that make commercial chicken production environmentally and socially responsible and economically beneficial to producers, while at the same time promoting bird performance, health and welfare.

To meet varied market demands, Aviagen offers a full portfolio of breeding stock under the Arbor Acres, Indian River and Ross brand names. The Rowan Range and Specialty Males target slower-growing and other niche market needs. Aviagen is based in Huntsville, Alabama, US., with operations across the UK, Europe, Turkey, Latin America, India, Australia, New Zealand, Africa and the US and joint ventures in Asia. The company employees close to 8,000 people and serves customers in 100 countries.

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Hy-Line Technical Services Meeting

August 7-11, 2023



The Hy-Line International Technical Services team from around the globe was welcomed to West Des Moines, Iowa last week for their annual Technical Services Meeting. The team enjoyed being together in one place after many years apart, learning from experts in poultry industry.

Hy-Line Participates in AVECAO 2023

August 16-18, 2023

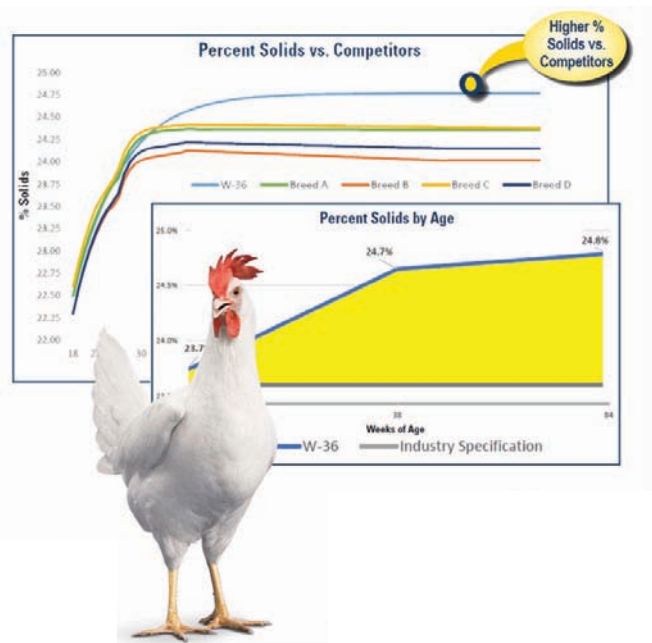


Tom Dixon, Global Product Manager and Mauricio Sanabria, Sales Manager to Latin America and Canada spoke at the Avecao meetings in Tepatitlan de Morelos, Jalisco, Mexico recently. Hy-Line de Mexico held a customer breakfast meeting with Tom Dixon presenting on the latest genetic advancements of the Hy-Line W-80 while Mauricio Sanabria outlined the overall Latin America market and Hy-Line's genetics program. 250 layer customers and allied industry people attended the Hy-Line meeting. Avecao's annual meeting attracts the local Jalisco and some attendees from other parts of Mexico and is growing in popularity with a commercial area with poultry industry suppliers present and leading domestic and international experts speaking on the latest issues affecting the Mexico egg industry.

Customer Anniversary



Mr Jonathan Cade, President, Hy-Line International, with Mr Ron Gooi, Commercial Director to Southeast Asia Region present Mr Mohamad Razi Bin, Production Manager of Selasih Aman company of Malaysia with a 5-year plaque to commemorate the company's anniversary with Hy-Line breeding stock for day-old chick distribution. The company produces Hy-Line Brown Max chicks as the Malaysian market requires a robust bird that lays large, dark-shelled eggs.



Egg-breakers around the world search to harvest egg solids. The Hy-Line W-36 excels at producing eggs high in percent solids. She is highest in the industry meeting and exceeding industry specifications for liquid egg product. In the USA, approximately a third of eggs are further processed with the W-36 ideal for this market. Her industry-leading low feed consumption yields high feed efficiency which vitally important as feed represents 70% of the cost to produce an egg and also about 70% of all emissions in egg production originate from the production of feed.



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Supporting Poultry Gut Health With Microbial Solutions: Lallemand Animal Nutrition To Present New Research At The XXII Congress Of The World Veterinary Poultry Association



Verona, Italy – 4 September 2023 – Lallemand Animal Nutrition is pleased to announce its sponsorship of the XXII Congress of the World Veterinary Poultry Association. As a leading advocate for microbial-based solutions in the poultry industry, Lallemand's technical poultry team will be attending the event to present two new studies. This highly anticipated gathering of global experts and scientists offers valuable opportunities to exchange information about the latest advances in poultry veterinary science, encompassing a wide range of key topics within the field.

"We are thrilled to support this year's Congress of the WVPA and present our latest research findings," commented Florence Barbé. "We are demonstrating that our microbial-based solutions, namely probiotics and competitive exclusion products, help harness

the power of the birds' microbiota and have the potential to support poultry gut health and immunity in both broilers and layers. They are readily available technical tools to help the poultry industry continue to grow in a sustainable manner."

Mitigating gut inflammation consequences in layers

Gut inflammation is a reality in poultry farming. It often goes unnoticed at first but can turn into reduced performance in the long run.

Lallemand's R&D team conducted a study including an inflammatory challenge in laying hens with the objectives:

1. To investigate the consequences of gut inflammation on laying performances;
2. To evaluate the potential of the probiotic *Pediococcus acidilactici* CNCM I-4622 (BACTOCELL) to mitigate the negative

effect associated to the inflammatory trigger on egg production (Barbé et al., 2023).

- Results showed the locally induced inflammatory challenge drastically degraded all laying performance criteria, including: feed intake, exported egg mass, laying rate and FCR as well as negatively affected egg quality.
- Moreover, this study demonstrated fecal calprotectin levels has the potential to be used as a non-invasive biomarker of acute intestinal inflammation in birds.
- When the layers were fed the probiotic bacteria, they experienced quicker performance recovery and improved egg quality parameters following the induced inflammation. Gut health was also more quickly restored as indicated by lower levels of fecal calprotectin.

Preserving performance

and gut integrity during broiler vaccination

Since coccidiosis remains a major threat in poultry production, live coccidiosis vaccines are gaining ground. However, numerous publications reported vaccination can have negative impacts on zootechnical performance. A pilot study was conducted to evaluate the early application of a competitive exclusion product (AVIGUARD) to mitigate the negative effect of a coccidiosis vaccine on broiler performance (Chevaux et al., 2023).

The study confirmed vaccination impaired growth performance

as measured by body weight at days 28 and 35, feed conversion rate and average daily gain.

The early application of the competitive exclusion solution AVIGUARD allowed broilers to maintain zootechnical performance after vaccination against coccidiosis.

In addition, the treatment minimized the risk of intestinal lesions induced by coccidiosis in vaccinated birds, which is a known side effect of the vaccination.

Authors of the publication concluded this study presents an interesting strategy to mitigate some of the negative effects reported to be associated to live cocci vaccines. Moreover, it indicated the competitive exclusion solution did not alter the mode of action of the live vaccine, making it compatible with coccidiosis vaccine.

Lallemand Animal Nutrition's participation at the XXII Congress of the WVPA underscores the










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►► company's commitment to helping its partners and farmers sustainably feed a growing global population through improved animal performance and well-being with a strong research and innovation focus.

ABOUT LALLEMAND ANIMAL NUTRITION

We are Lallemand Animal Nutrition – a global leader in the science of fermentation – and a primary producer of yeast and bacteria. Our passion is harnessing microorganisms to optimize animal well-being and performance, forage management and the animal environment. We remain unwavering in our commitment to helping our industry partners and farmers sustainably feed a growing global population through improved animal performance – and enhancing the well-being of livestock and companion animals.

We provide the broadest range of innovative microbial products, services and solutions for customers around the world.

We deliver tailor-made services according to your specific needs and offer expert technical support to ensure the optimal application and efficacy of our solutions.

Leveraging the natural power of yeast and bacteria, we develop, produce and market highly technical products including probiotics, silage inoculants and microbial derivatives.

Using sound science, proven results and knowledge from experience, we apply the right strains for the right applications.

Lumis Enzymes organized Seminars in South East Asia

Lumis Enzymes organized multiple seminars in South East Asia that covered various key topics like the El Nino challenges which has globally impacted the climatic conditions, the variability and non-availability of essential ingredients due to reduced harvests and the inflation of ingredient prices. The seminars also addressed various geopolitical issues causing widespread implications on the international trade and also trade ban on certain key ingredients. The seminars highlighted the need of sourcing alternate ingredients and the adoption of sustainable practices to minimize the environmental impact. The seminars were led by eminent speakers with extensive knowledge and several years of experience in the feed industry.

At the outset and on behalf of Lumis Enzymes, **Mr Nicklas Jonow** delivered a welcome note to the speakers and the attendees of the seminars. He provided an overview of the agenda and also highlighted the importance of the topics covered in the seminars.

Mr Lesley Nernberg, respected poultry and swine nutritionist presented useful insights about alternative feed ingredients and extracting their nutritional values. He provided very relevant information on the nutrient composition of the conventional and alternate feed ingredients while also suggesting valuable information on the utilization of alternative feed ingredients. He also highlighted that Lumis

has been proactively researching on these alternate ingredients, recognizing their potential as essential or mandatory ingredients in the near future. He further discussed on the technological features of the unique enzyme combinations from Lumis, that would play a very vital role in optimizing feed efficiency and maximizing economic benefits through the use of these alternate feed ingredients.

Associate. Prof Dr Yuwares Ruangpanit, a distinguished animal nutritionist delivered a presentation on the importance of effective feed ingredient management. She gave a detailed explanation on how low protein diets would not only help to reduce the water consumption, nitrogen excretion, ammonia emission and enteric pathogens but also help to substantially reduce the feed production cost. She also emphasised on the significance of precision nutrition and feeding practices in promoting sustainable poultry/animal production.

Mr Panu Nuangjamnong who has several years of experience at GISTDA, a well-known space agency in Thailand presented several geospatial data based on the highly advanced space technologies. He elaborated on the critical parameters that influence a given crop cultivation and harvesting, including the effects of current climatic changes causing droughts, flooding, temperature shifts etc. According to the comprehensive data

provided by Panu, these variations in climatic conditions are leading to drastic drop in the crop production. He underlined the need of the feed industry to prioritize on the use of alternate ingredients over the conventional ingredients.

Dr Ekalux, provided very valuable insights on the global feed ingredient price trend over the past few years and also projected the future price inflations. He presented several dynamics on how the use of alternate feed ingredients would help in reducing feed production costs while also improving return on investment (ROI).

Dr Tanadon furnished detailed information on the role of Lumis enzymes while making use of alternate feed ingredients. He emphasised that due to the broad substrate specificity of Lumis Enzymes, it provides the customers flexibility to use a wide range of ingredients. He also mentioned that use of Lumis enzymes helped in overcoming the ingredient variability, improved animal performance and resulted in lowering feed production costs. He further added that the exceptional technical features of Lumis enzymes have set new benchmarks for other enzyme manufacturers in the feed industry.

Overall, the seminars arranged by Lumis Enzymes, provided valuable insights into the feed industry's challenges and opportunities. The seminars were well-received by the attendees and showcased Lumis' commitment towards the industry, its customers and stakeholders on the latest developments and best practices.



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Venky's India Organises Series of Grand Technical Seminars at Raipur, Karnal, Hyderabad, Coimbatore and Bangalore from 11 to 15 September

Pune: On 11 to 15 September 2023 in Raipur, Karnal, Hyderabad, Coimbatore and Bangalore Venky's India Ltd organised the Grand Series of Seminars. The resource person for the Seminar was Dr Joscep Garcia, Global technical lead for toxin solutions at agrimprove an International expert on Mycotoxins from Special Nutrient Inc, USA and who has experience of more than 40 years in the same field.

The topic of seminars was on "Multiple toxins challenges in feed and its solutions"

The Seminar was well attended by field Veterinary consultants, Layer farmers, Breeder Farmers and local integrators from various cities and towns of Raipur, Karnal, Hyderabad, Coimbatore and Bangalore. For the Raipur Seminar Dr Vishwas Sagajkar (DGM, Marketing) welcomed the guests. In inaugural speech Dr Vishwas Sagajkar gave brief regarding Dr Joscep Garcia Work experience.



Dr Joscep addressing Raipur Customers

And then the speaker Dr Joscep Garcia started his presentation. And finally the presentation was summarized by Dr Vishwas Sagajkar. For Karnal,

Mr H.S Padda (DGM North) welcomed the guests and Mr Sashi Bhushangave inaugural speech to audience in Karnal followed by Dr Vishwas Sagajkar gave brief regarding Dr Joscep Garcia work experience. And then the speaker Dr Joscep Garcia started his presentation. And finally the presentation was summarized by Dr Vishwas Sagajkar.

For Hyderabad Meeting Dr Baburaj (DGM, South) welcomed the guest

and Mr Suneel Sharma gave inaugural speech to Audience in Hyderabad Followed by Dr Vishwas Sagajkar (DGM Marketing)



Dr Joscep addressing Raipur Customers

gave brief regarding Dr Joscep Garcia work experience. And then the speaker Dr Joscep Garcia started his presentation. And finally the presentation was summarized by Dr Vishwas Sagajkar.

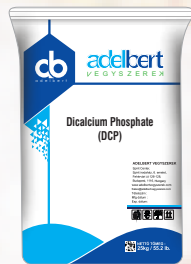
For Coimbatore Meeting Mr Deepak Khosla (GM, Marketing) welcomed the guest and gave inaugural speech to audience in Coimbatore followed by Dr Vishwas Sagajkar gave brief regarding Dr Joscep Garcia work experience. And then the speaker Dr Joscep Garcia started his presentation. And finally the presentation was summarized by Dr Baburaj. For Bangalore Meeting Mr Deepak Khosla (GM Marketing) welcomed the guest and gave inaugural speech to audience in Bangalore followed by Dr Vishwas Sagajkar gave brief regarding Dr Joscep Garcia work experience. And then the speaker Dr Joscep Garcia started his presentation. And finally

the presentation was summarized by Dr Baburaj.

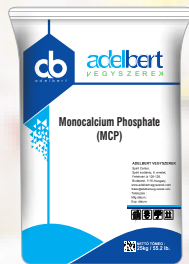
And then Dr Joscep Garcia started with his presentations "Multiple toxins challenges in feed and its solutions". At the start of his presentation. Dr Joscep Garcia showed some of the photographs of the PM lesion due to mycotoxicity, which gave the clear cut idea to the audience about different lesions to different organs by different mycotoxins. Then slowly he shifted the audience towards updates of Endotoxins in poultry and its importance in poultry. In his presentation



Attendees at Coimbatore



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▶▶ topic what he touched was Endotoxins disrupt gut health in poultry. Endotoxins, also known as lipopolysaccharides (LPS), are part of the outer membrane of the cell wall of all gram-negative bacteria (example E. coli, Salmonella, Shigella, Pseudomonas, among others) that are released from bacterial cell wall by shedding or through bacterial lysis. Gram-negative bacteria are part of poultry animals' microbiota; thus, there are always LPS in the intestine. Under eubiosis, this does not affect animals negatively because intestinal epithelial cells are poorly responsive to LPS when stimulated from the apical side.

Dr Joscep Garcia also reminded about the critical role of immunosuppression caused by Mycotoxins and its role in Vaccine failure. He emphasized that one should be very careful

while selecting a Toxin Binder as some agent such as activated charcoal if included in Toxin Binder

may have deleterious effects as activated charcoal also binds nutrients such as vitamins

and minerals from the feed. Biobantox Plus takes care of Mycotoxins, Endotoxins and Pesticides.



Dr Joscep with Venky's staff at Karnal



Attendees at Hyderabad Seminar

EW Nutrition Welcomes Jan Vanbrabant as New CEO

VISBEK (Germany), 1 September 2023 - EW Nutrition, a leading global provider of functional animal nutrition solutions, welcomes Jan Vanbrabant as its new Chief Executive Officer.

Jan has a Ph.D. degree in microbiology and is an experienced manager in animal health and nutrition, having held leadership roles at DSM, Erber Group,

Biomin and Kemin. "We are very pleased that we have found a strong management lead in Jan, who embodies the philosophy of EW Nutrition", says Jan Wesjohann, Managing Director of parent company EW Group. "EW Nutrition is an innovation-driven company, with intensive investment in R&D. Together with Jan we

are looking to enter the next growth phase of EW Nutrition."

"I am very excited to be joining the EW Nutrition team," said Jan Vanbrabant. "EW Nutrition's long-term focus has created an extremely competitive portfolio. EW Nutrition is uniquely positioned to support its customers in mastering the challenges of the changing animal health and nutrition environment."

Former CEO Michael Gerrits is heading into retirement after six years leading EW Nutrition. "I want to thank Michael Gerrits for

his essential stewardship in bringing the company to the next level," said Jan Wesjohann.

About EW Nutrition
EW Nutrition is a global animal nutrition company that offers integrators, feed companies, and veterinarians' comprehensive solutions for animal gut health and performance, feed quality, digestibility and more. It is focused on promoting sustainable growth through reduced FCR, natural support against challenges, reduced need for antibiotics and planet-friendly protein production.

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Poultry Farming is Agricultural Activity: Karnataka High Court



Bengaluru: Poultry-farming is an agricultural activity and cannot be termed "commercial" entitling the gram panchayat to levy any tax under Karnataka Gram Swaraj and Panchayat Raj Act, the Karnataka HC ruled recently.

Justice Suraj Govindaraj has pointed out that in E Bhaskar Rao' case, the high court had observed that a poultry farm is an agricultural activity and does not require land to be converted to a commercial purpose for putting up a construction for such business.

"If that be so, a building put up on an agricultural land cannot be said to be a commercial building coming under Clause A (ii) of Schedule IV of the Act. The land continues to be an agricultural land and the poultry-farm activity cannot be said to

be a commercial activity entitling the panchayat to levy any tax let alone under the said provisions," the judge further said, directing the Sondekoppa gram panchayat in Bengaluru North taluk to refund Rs 59,551 collected from petitioner K Narasimhamurthy.

The petitioner, who owns four acres of land in Nagasandra village, had approached the gram panchayat, seeking NOC for getting an electricity connection to the building constructed in a portion of the property wherein he intended to do poultry farming.

However, the panchayat authorities demanded Rs 1.3 lakh for issuing NOC on the ground he would be liable to pay taxes on the property as the same would be an industry. Without any

option, Narasimhamurthy paid Rs 59,551 and later when he realised the village panchayat had no jurisdiction, he approached the high court, contending that both dairy farming and poultry farming are agricultural activities.

On the other hand, the government advocate argued that running of a poultry farm is a commercial activity and as such, poultry farm is a commercial building in terms of Clause A (ii) of Schedule IV attracts tax.

However, after considering the provisions of the

1993 Act, Justice Suraj Govindaraj noted that Schedule IV does not contain any other classification of a poultry farm entitling the panchayat to levy any tax. "In that view of the matter, a poultry farm being run on an agricultural land not being a commercial activity, the panchayat would not have any power to levy tax in terms of Schedule IV read with Section 199 of the Act," the judge said, quashing the demand notice dated September 20, 2013, issued by Sondekoppa gram panchayat.

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CLFMA of India Chairman's Monthly Round-Up

CLFMA had its 64th National Symposium in the month of August 2023 in New Delhi, which enriched our visibility and recognition among the wider industry Stakeholders. It was really a very successful interaction between the Government of India and the Industry Stakeholders, who engaged themselves in discussing current livestock sector related issues. CLFMA had an august presence of national and international stakeholders in the symposium and was well appreciated by all.

Important aspects:

CLFMA Team visit to Krishi Bhavan on 8th August, 2023:

CLFMA Chairman Mr Suresh Deora (myself) along with CLFMA team visited Krishi Bhavan on 8th August, 2023 to discuss and finalize the symposium program. CLFMA got an appointment of Dr O. P. Chaudhary, Joint Secretary (NLM/PC), Department of AH & D, Ministry of Fisheries, Animal Husbandry and Dairying and Ms Alka Upadhyaya, IAS, Secretary AHD, Dept. of AH & D, Ministry of Fisheries, Animal Husbandry and Dairying.

CLFMA 56th Annual General Meeting and 64th National Symposium 2023:

CLFMA OF INDIA, an Association of Livestock Industry conducted its 56th Annual General Meeting and 64th National Symposium 2023 in New

Delhi on **August 18 and 19** at **Hotel Le Meridien, Windsor Place Janpath, New Delhi.**

Over 500 participants representing all stakeholders viz. large number of senior officials from the industry, feed manufacturers, aqua and dairy farmers, animal health and nutrition experts, academic institutions, government institutions, ambassador/high commission representatives from various countries, etc. from the sector participated in the 64th National Symposium 2023. The Theme of the event was **“Livestock Sector: Looking Beyond the Present”** which aimed to build a partnership with the government to take forward the agenda related to the theme. There were two inaugural sessions conducted as the Guest Mr Parshottam Rupala, Hon'ble Minister of Fisheries, Animal Husbandry & Dairying, Government of India had some other commitments and hence a special session was organized in the morning.

The session began with an auspicious lighting of the lamp by our esteemed guest Parshottam Rupala, Minister of Fisheries, Animal Husbandry & Dairying, Government of India. Chairman, Mr Suresh Deora, Convenor, Mr Divya Kumar Gulati and Secretary Mr Abhay Shah from CLFMA were also present.

The chairman felicitated Mr Parshottam Rupala with a bouquet, shawl and memento to mark the occasion.

Mr Divya Kumar Gulati, the convenor of the event, delivered welcome address, setting the tone for an engaging and informative session. This was followed by a thought-provoking address by Mr Suresh Deora, Chairman of the CLFMA of India, who highlighted the industry's potential and challenges.

The highlight of the event was the prestigious CLFMA Lifetime Achievement Award. It recognized two exemplary individuals for their significant contributions to the livestock industry. The award was announced and presented recognizing their achievements and dedication to the sector.

Mr Nadir B. Godrej, Past Chairman, CLFMA OF INDIA and Chairman and MD of Godrej Industries Ltd., and Mr Tarun Shridhar, IAS (Retd.). Former Secretary, Animal Husbandry and Dairying, Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India were honoured with the CLFMA Lifetime Achievement Award. The awards were presented by Mr Parshottam Rupala.

Mr Nadir B. Godrej thanked CLFMA for the award with full heart and spoke about his journey in the

animal feeding business. The glimpses he shared were not only fascinating but inspiring too. Mr Tarun Shridhar, IAS (Retd.) humbly thanked for the honour and nostalgically remembered how the sector has given him the vast knowledge, experience, insights and friends he adores recently. Mr Nadir B. Godrej, Past Chairman of CLFMA of India; Chairman and MD of Godrej Industries Ltd., and CLFMA Lifetime achievement awardee delivered the keynote address.

Guest Address was delivered by Mr Tarun Shridhar, IAS Retd. Former Secretary AHD, Department of AHD, Ministry of Fisheries, AH & D.

The much-awaited **Livestock Survey Report (Volume - II)** was also launched at the event.

Mr Parshottam Rupala delivered an address at the event. As they say storytelling is the best way to communicate life experiences, our honourable guest shared his life insights with stories of inspiration and success. He shared valuable insights into government policies and initiatives aimed at promoting the growth and development of the livestock sector. He also highlighted the government's commitment to the development and growth of the fisheries, animal husbandry and dairying sectors in the country.

The session concluded with a vote of thanks delivered by Mr Abhay Shah, Secretary of the CLFMA of






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▶▶ India, expressing gratitude to all the distinguished guests, esteemed speakers, sponsors, delegates and participants for their valuable contributions and making the inaugural session a resounding success. This was followed by a networking lunch.

The CLFMA of India conference had set a strong foundation for the subsequent sessions, and discussions that would take place over the following days. With the enthusiastic participation of industry experts, policymakers and stakeholders, the symposium aimed to explore strategies and solutions for the sustainable growth of the fisheries, animal husbandry and dairying sectors, contributing to the overall development of the country.

CLFMA concluded its highly anticipated Inaugural Session - II event, marking a significant milestone in the organization and journey on Day 1 of 64th National Symposium 2023. The event commenced with the lighting of the lamp ceremony, where all the dignitaries viz. Dr O. P. Chaudhary, Joint Secretary (NLM/PC), Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India graced the occasion as the Guest. Mr Nadir B Godrej, Past Chairman of CLFMA of India and Chairman & MD of Godrej Industries Ltd; Mr Tarun Shridhar, IAS (Retd.), Former Secretary, Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry &

Dairying, Government of India. From CLFMA, Chairman Mr Suresh Deora (myself); Deputy Chairman Mr Sumit Sureka, Convenor Mr Divya Kumar Gulati and Secretary Mr Abhay Shah were present on the dais with the guest.

Mr Divya Kumar Gulati, Deputy Chairman of CLFMA of India, delivered the welcome address, highlighting the importance of the event and expressing gratitude to all participants. Following the welcome address, Mr Suresh Deora (myself), Chairman of CLFMA of India, addressed the audience.

A key highlight of the event was the CLFMA Audio Visual Presentation, which showcased the achievements and initiatives undertaken by CLFMA of India in the past year.

CLFMA recognized the exemplary contributions of Dr Anand Kumar Pathak, Senior Assistant Professor (Animal Nutrition) in SKUAST Jammu and Dr Pankaj Kumar Singh, Professor and Head of Animal Nutrition, Department of Bihar Animal Sciences University, Patna with the prestigious CLFMA Award. The awardees were felicitated by Dr O. P. Chaudhary, Joint Secretary (NLM/PC), Government of India.

The event also saw the launch of the official souvenir, marking a significant milestone in the symposium with key dignitaries Dr O. P. Chaudhary, Mr Nadir B. Godrej, Mr Suresh Deora (myself), Mr Divya Kumar Gulati, Mr Sumit Sureka,

Mr Naveen Pasuparthi, Mr Sandeep Kumar Singh, Mr Abhay Shah, present on stage. All office bearers were invited on stage to be an auspicious part of the prestigious moment.

Dr O. P. Chaudhary addressed the audience, highlighting the initiatives undertaken by the Department of Animal Husbandry & Dairying to promote the growth of the animal feed industry.

The CLFMA of India is proud to have organized such a successful event, bringing together industry leaders and stakeholders for insightful discussions and networking opportunities. The 64th National Symposium of CLFMA of India proved to be a significant platform for knowledge exchange, discussion and collaboration in the livestock sector. The event successfully shed light on the challenges and opportunities beyond the present, encouraging stakeholders to work towards a sustainable and prosperous future for the industry.

In addition to its domestic recognition, CLFMA is also acknowledged by international sectors. It is highly regarded by government departments, agricultural universities, veterinary colleges and national research institutes within India. Furthermore, CLFMA is respected by related industries outside the country.

The First Session was titled **“Graduating from Quantity to Quality: Making Our Agriculture, Livestock and Fishery Globally Competitive”**. The First

Session Moderator was Mr Balram Singh Yadav, Past Chairman, CLFMA OF INDIA and the Speakers / Panelists were viz. Ms Alka Upadhyaya, IAS, Secretary AHD, Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. Mr Rajesh Kumar Singh, IAS, Secretary, Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. Mr Tarun Shridhar, IAS (Retd.), Former Secretary, Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry & Dairying, Government of India.

The Second Session was titled **“Challenges of Feed Security: Bridging the Demand and Supply Gap”** and the second session Moderator was Mr Neeraj Kumar Srivastava, Immediate Past Chairman, CLFMA OF INDIA and the Speakers / Panelists were viz. Mr G. N. Singh, Joint Secretary (Admin/Trade/GC/IC/IT), Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. Dr Praveen Malik, Chief Executive Officer, Agrinnovate India Ltd., (A Government of India Enterprise), New Delhi. Mr Naveen Pasuparthi, Deputy Chairman, CLFMA of India. Dr Sandeep Karkhanis, Member, CLFMA of India.

The Third Session was titled **“Development Initiative and Regulatory Framework”** and the third session Moderator





SWISS CHEMIE

SWISS ANTIBIOTICS & PREMIXES

- Layer / Broiler Vitamins & Other Premix
- Amoxicillin
- Ciprofloxacin
- Doxycycline
- Albendazole
- Fenbendazole
- Lincomycin
- Azithromycin
- Tiamulin 10%/45%/80%
- Oxytetracycline
- Enrofloxacin
- Tetracycline
- Levofloxacin



VITAMINS

- ▶ Vitamin - C
- ▶ Vitamin - A/D3
- ▶ Vitamin - A
- ▶ Vitamin - B4
- ▶ Vitamin - B5
- ▶ Vitamin - E
- ▶ Vitamin - D
- ▶ Vitamin - K

AMINO Acids

- ▶ DL-Methionine
- ▶ L-Threonine
- ▶ L-Lysine HCl
- ▶ L-Tryptophan
- ▶ L-Valine

POULTRY SUPPLEMENTS

- ▶ Toxin Binder
- ▶ Choline Chloride (CCL)
- ▶ Chlortetracycline(CTC)
- ▶ Betain HCl
- ▶ Tylosin Phosphate 10%
- ▶ Acidifier
- ▶ DCP (Dicalcium Phosphate)
- ▶ MCP (Monocalcium Phosphate)
- ▶ Sodium Bi Carbonate
- ▶ Layer Premix
- ▶ Broiler Premix
- ▶ Electrolyte

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► was Mr Sandeep Kumar Singh, Deputy Chairman, CLFMA OF INDIA and the Speakers / Panelists of the third session were viz. Dr Sujit K. Dutta, Joint Commissioner (AH), Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. Dr Gagan Garg, Deputy Commissioner (Trade), Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. Ms Suneeti Toteja, Scientist - E, Bureau of Indian Standards (BIS), Government of India. Dr Monica Puniya, Deputy Director, Food Safety and Standards Authority of India (FSSAI), Government of India. Dr Prashant Shinde, Managing Committee Member, CLFMA OF INDIA and Mr. Suresh Rayudu Chitturi, Member, CLFMA OF INDIA.

The Symposium concluded with the valedictory session delivered by Mr S. V. Bhav, Past Chairman of the CLFMA of India, who offered a summation of the discussions and key takeaways from the event. The event also included the felicitation of sponsors, media, guests and invitees

Throughout the session, the panelists engaged in a lively discussion, exchanging ideas and addressing questions from the audience. They emphasized the need for collaboration between government bodies, industry stakeholders and regulatory agencies to create a conducive environment for the growth of the animal husbandry industry.

The event also included the felicitation of sponsors, media, guests and invitees, which was conducted by Mr Sandeep Kumar Singh. The memento distribution was carried out as per the prearranged list. The session concluded with a vote of thanks delivered by Dr Anup Kalra, President North - II, CLFMA OF INDIA expressing gratitude to all the distinguished guests, esteemed speakers, delegates and participants for their valuable contributions and making the 64th National Symposium a grand success.

At the end of the symposium, a networking dinner was held to provide an opportunity for participants to further engage and build connections. The symposium received an overwhelming response from participants, including industry professionals, government officials, researchers, and students. It provided an excellent platform for networking, knowledge sharing and collaboration within the livestock sector.

Overall, CLFMA interacted with various stakeholders in the industry and government on the topic "Livestock Sector: Looking Beyond the Present". The association has diverse membership from across the animal protein value chain including feed manufacturing; poultry, dairy and aquaculture business; animal nutrition and health, veterinary services, machinery and equipment; processing, distribution, retailing of meat and Associations-National and International. ►

Chitturi Jagapati Rao honoured with Life Time Achievement Award at SIBA 2023 in Dubai



On behalf of Chitturi Jagapati Rao, Chairman, Srinivasa Farms, his son Chitturi Suresh Rayudu received Life Time Achievement Award from Venkaiah Naidu, former Vice President of India at SIBA 2023 in Dubai on 14 September 2023.

The prestigious SIBA Awards 2023 were held on 14 September 2023, in Dubai. The event was graced with eminent actors from Film fraternity and noted big corporate entities.

The guest of honour for the event was Mr Venkaiah Naidu, former Vice President of India. Mr Venkaiah Naidu who had felicitated esteemed dignitaries for their immense contributions to Agricultural Industries.

It was a proud moment for all of us at Srinivasa Farms, Poultry & Agricultural communities as the living legend and founder of

Srinivasa Farms Mr Chitturi Jagapati Rao, Chairman - Srinivasa Farms has been felicitated with Life Time Achievement Award for his immense contributions to the Agricultural Industry at SIBA 2023. On behalf of Mr Chitturi Jagapathi Rao (Chairman, Srinivasa Farms) Mr Chitturi Suresh Rayudu (Managing Director & Vice Chairman of Srinivasa Farms) has received the prestigious SIBA Awards 2023 at the event from Mr Venkaiah Naidu.

We wish and pray the legacy of Mr Chitturi Jagapathi Rao continues to inspire generations to come, said a note from Srinivasa Farms Pvt Ltd.

► The program was well appreciated by all the participants.

Stakeholder Outreach: Livestock Expo at India Expo Centre, Greater Noida, UP 3rd to 5th August 2023. ►

Mr Neeraj Kumar Srivastava, Immediate Past Chairman, Dr Anup Kalra, Zonal President – North II participated in the Livestock Expo – Greater Noida on behalf of CLFMA OF INDIA.



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No Toxins, No Residues, No Side-effects, No Withdrawal Time

Surgical:

Targets and eliminates specific bacteria, even those resistant to antibiotics

Protective:

Maintains gut bio-balance by retaining beneficial bacteria

Probiotic:

Enriched with Bacillus Subtilis

Flexible:

Compatible with all Performance Enhancers, Growth Promoters, Acidifiers, Anti-Oxidants, Minerals & Enzymes

BACTERIA IT CONTROLS

Salmonella

Typhimurium Gallinarum Choleraesuis, Derby, Dublin, Enteritidis, Pullorum

E. Coli

F4 (K88), F5 (K99), F6 (987P), F18, F41

Clostridium Perfringens

Type A, C, B, D, E

Staphylococcus Aureus

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Poultry Fortune presented 25 Awards to the individuals, institutions and organisations who have excelled in their profession and contributed to the development of Poultry industry in India. The Gala evening of PF Awards 2023 presentation programme was held on 15 September 2023 at Hotel Novotel, Pune.



Award Winners together:

Standing from Left: Ms Ruby Sharma; Manish Gajanan Pingale; Dr Natarajan Elangovan; Amiya Dharmapada Nath; Dr Aman Sayed; Dr Mahesh Shivankar and Ramdas Shendge.

Sitting from Left (Middle Row): Sham K Bhagat; Ms Sonali Kulkarni; O.P. Singh; Dr Suresh Sharma; Vasanth Kumar Chidambara Setty; Sushill Sawhney's Father; Debaraj Das; Rajendra Tukaram Thorat and M.A. Nazeer.

Sitting from Left (Bottom Row): Rahil Roshan Somjee; Dr Chand Bahar; Dr Ajay Deshpande; Dr Chandrasekaran Duraiswamy; D.S. Subramaniam; Dr Soumen Kumar Dandopath; Dr Manju N.C. Reddy; Ashok Mandava and Dr Sudipto Halder.

**Dr Suresh Sharma,
MD, Vesper Group honoured with
Life Time Achievement Award 2023**

Dr Suresh Sharma was born on 24 July 1948. Dr Suresh Sharma did his Veterinary Science graduation from Bangalore Veterinary College, Bangalore, Karnataka in 1972.

During early stages after completing his degree he worked with Sarabhai where he learnt sales and marketing skills and later

with around 200 crossbred HF cows, his father an Army officer Mr P.N. Sharma started commercial dairy in the name "GOPATHI FARMS" at village Singapura Vidyaranyapura post, Bangalore-97. Dr Suresh Sharma was taking care of this dairy with average daily production of approximately 3600 liters of daily milk production.



Dr Suresh Sharma, Managing Director, Vesper Group, receiving Poultry Fortune **Life Time Achievement Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.



► Gopathi Farms was Karnataka's first private dairy farm to supply packed milk in pouches. After running his dairy successfully for 8 years, he closed it and concentrated building Vesper Group in Pharmaceutical industry. He has a great insight knowledge and logical approach to medicine, drug molecule and treatment practices. His sense of wit kept him apart and he has earned huge healthy respect from all in the poultry industry.

He was proudly called as Toxol-Man by Dr B.V. Rao, Chairman of Venkateshwara Hatcheries Group.

Dr Suresh Sharma at a very young age took a daring step as a veterinarian of his stature to set up Vesper Pharmaceutical on 25 October 1978. The growth of Vesper has been phenomenal and since 1978 its grown nationally and internationally.

Continuous improvement, proactive practice, innovative products catering to variety of needs with no compromise in quality and deliveries-the key ingredients for Vesper Group success story.

Dr Suresh Sharma is also a great cine actor and he had acted in many Kannada films and TV serial like "Parvatti" was huge success in Karnataka. He got many awards for his acting skills.

Dr Suresh Sharma is a veterinarian with visionary outlook, the watchword is Vision. Vision that catalyzes research creates products and cares for its poultry industry.

In recognition of Dr Suresh Sharma's achievement and contribution to the veterinary profession, he was awarded 'THE BEST VETERINARIAN' award



by Veterinary Association in the year 1991 for creating challenging products like Toxol, Immolyte, CMI Plus, Respirom, Thermocare, RC-Ves and Ves-Pro for poultry industry and ND killed vaccine for Raniket disease.

Vesper Group's products like Masticare, Gynecare, ToxolInj, Oxy ves La, Scabisolinj,

Thermovetinj, Provet inj etc for cattle industry are in huge demand.

Vesper Group also produces products for Pets and Aquaculture – shrimps and fisheries.

Vesper Group has companies like Vesper Pharmaceutical, Vesper Labs, Herbal Pharma, Vesper Injectables and Orchid Spa.

Vesper Group has an annual turnover of about Rs 50 crores excluding film production and TV serials.

Vesper Group has 3 production sites for producing world class products for poultry, cattle, Pets and Aqua apart from Vesper Biological with own research and experiment units for conducting drug and product trails handled by professional microbiologist and reputed and well experienced veterinarian steam.

Vesper Group slogan

- The care takers Vesper Vision – Catalyzes Research
- Creates products and cares customers.

C. Vasanth Kumar, MD, Quality Poultry Products Pvt Ltd honoured with Life Time Achievement Award 2023



C. Vasanth Kumar, Chairman & Managing Director, Quality Poultry Products Pvt Ltd receiving Poultry Fortune **Life Time Achievement Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Mr C. Vasanth Kumar, a dynamic entrepreneur who has been in poultry sector since 1977 was the person responsible for the development of Layer belt in Sangli district, Maharashtra. He gave emphasis on providing quality chicks and service to the farmers. He is known even to the smallest farmers in Sangli district and always thought of how small and medium size farmers can grow. During the Establishment of NECC he was along side of Padmashree Late Dr B.V.Rao for the benefit of farmers. He also encouraged feed mills in the farms of Layer farms in Vita.

He puts farmers first before him and always strive to help them in whatever way possible. He brought broiler integrator farmers together and then he started the Association in Maharashtra. He actively involved in the association from the year 2005-2006 during the onset of first Bird flu in India. During Bird flu he requested the Government to help poultry sector by giving them funds. He represented the Association to various government authorities and ensured that farmers get various helps from government authorities. From 2005-2006 onwards, he started interacting with the stakeholders of poultry sector and requested them



to join the Association for mutual benefit of all in poultry sector.

He used to talk to stakeholders and prepare the strategy for production cuts, better price realisation while reducing production. He also talked to various state associations and asked them to join them. Since the Association was taken over, he ensured that all poultry and hatchery units get one tariff from MERC and got the orders of the same. He along with others in the industry tried to get agriculture status to poultry sector and represented the association with Government of India during high prices of maize and Soya DOC.

In 2012 the broiler prices in all over India crashed to the lowest level and he initiated the meeting of all the broiler operators in the country on one platform to decide different ways and means to stop the losses and to increase the realisation above cost of production levels. Then he initiated the formation of Pan India Broiler Co-ordination Committee. All the State Associations and all the G.P.Operators are the members of Pan India Broiler Co-ordination Committee. He feels that small and marginal farmers should survive in poultry sector.

O.P. Singh, MD, ABTL, Huvepharma honoured with Best CEO in Poultry Industry Award 2023

Mr O.P. Singh, Managing Director, Advanced Bio-Agro Tech Ltd, Huvepharma SEA (Pune) Pvt Ltd and Director, NBPL born in Uttar Pradesh and had his

- Alumni of BHU Masters in Biotechnology
- Alumni of Kellogg School of Management Chicago - USA

WORKING EXPERIENCE

- General Manager - Alfa Laval Sweden Stockholm 1989-1991
- Director - Research, Alltech Biotechnology Pvt Ltd, USA 1991-1996
- Director - Operations, Europe and Asia 1996-1998
- CEO - Provimi Nutrition (India & Asia Operations) 1998-2000



- CEO - Venky's Group 2000-2007
- MD - B.V. Bio Corp Pvt Ltd. (Venky's group) 2000-2007
- Member of NECC Council 2000-2007
- MD - Advanced Bio-Agro Tech Limited (ABTL) 2007
- MD - Huvepharma SEA (Pune) Pvt Ltd 2009
- Director - Norel NBPL India Private Limited 2017
- Director - Vivaldis India Pvt Ltd 2013-2019



O.P. Singh, Managing Director, Advanced Bio-Agro Tech Ltd and Huvepharma SEA (Pune) Pvt Ltd, and Director, NBPL, receiving **Best CEO in Poultry Industry Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

- Member of Council, Managing Committee Amethi Institute of Technology 2011
- Member of Council and the Advisory Board of Symbiosis Bioscience Research
- Member of India chapter council Kellogg USA
- Member of CII Agriculture and Animal Health since 2018
- Poultry India founder and member of advisory board 2006
- Board member - Poultry Federation of India 2004 - 2013
- Member of World Agriculture Forum 2004
- External faculty for Kellogg and IIM Ahmadabad Agriculture Business 2002 -2006
- Presentation and co-ordination with the South African continent council to develop
- Rural Development on science service and support (2002 - 2009).
- Co-ordination with the middle eastern embassies for the export of Chicken meat and Eggs.
- Anchoring avian influenza control programme and securing poultry industry viability
- throughout the first crisis of avian influenza in 2002-2006 through global organisations into the face like OIE and IFF as well as USFDA and neighbouring countries.
- Heading various research projects of the future like the new platform of vaccinology in the animal sector as well as artificial intelligence development programme at the farm level to induce technology adaption for further.

HIGHLIGHTS

- First Indian to represent the country during the world agriculture congress in Minnesota, USA.

Zenex Animal Health India receives Best Poultry Healthcare Company Award 2023

About Zenex Animal Health, India

Zenex Animal Health India Private Limited is one of the leading companies in the animal health industry in India for over six decades. Zenex Animal Health operates from a corporate office located in Ahmedabad in the State of Gujarat. In July 2021, a company promoted by a consortium of private equity investors Led by multiples asset management acquired Zydus AHL with experience, expertise and synergies built with prominent companies. Zenex Animal Health has strong brands, comprehensive product portfolio and extensive distribution network.

Manufacturing & Quality Control:

Zenex Animal Health



Chand Bahar, National Sales Manager, Zenex Animal Health India Pvt Ltd receiving **Best Poultry Healthcare Company Award 2023** for Zenex Animal Health from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

has the state of the art manufacturing facility located in Haridwar, Uttarakhand.

The manufacturing facility has an in-house quality

control (QC) laboratory equipped with latest instruments and qualified technical staff and engages with third-party research and product testing

institutes/ laboratories.

The manufacturing facility strictly follows good manufacturing practice (GMP) model and is equipped with automated machinery commensurate for the animal health products, the inventories of the company are managed and controlled through SAP-ERP2 software. Zenex Animal Health has well established process and committed to quality efficacy and safety.

Zenex Animal Health's manufacturing facility is dedicated to manufacture veterinary products for domestic and international markets. The facility is managed by expert technical professionals with capability of manufacturing liquid injections in glass vials, tablets/ boluses in blister and strip packs, dry powder in sachet / pouches and liquid orals in HDPE and PET bottles.

TIMO EVA Wellness receives Best Emerging Animal Healthcare Company Award 2023

Dr Natarajan Elangovan is an entrepreneur, writer and investor. He has Bachelors in Veterinary Sciences (B.V.Sc) from the Tamil Nadu University of Veterinary and Animal Sciences (TANUVAS), the No. 1 veterinary university in India and amongst the leading veterinary universities globally. Having worked for the largest animal health players in India and globally, Dr Elangovan observed that it was the larger players that launched and

commercialised blockbuster products in the Indian animal health industry.

Dr Natarajan Elangovan founded TIMO EVA Wellness Private Limited in 2012 and he believes that TIMO EVA, a fast-growing animal healthcare company with an experienced management team, strong distribution network and market intelligence has the capabilities to launch and commercialize blockbuster products in India. His belief



Dr Natarajan Elangovan, Founder & Chairman, TIMO EVA Wellness Pvt Ltd receiving **Best Emerging Animal Healthcare Company Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India. ▶▶



has focused the strategy of TIMO EVA in creating a competitive edge through their superior execution capabilities that accelerates aggressive organic growth. TIMO EVA Wellness entered into a binding agreement to become the exclusive strategic partner of ECO Animal Health in India. TIMO EVA was also chosen as the exclusive distributor of ECO Animal Health in the country amidst competition from several large Indian animal health players. ECO Animal Health is one of the top-20 animal healthcare companies globally. Natarajan Elangovan has bootstrapped TIMO EVA whilst facing competition in the anti-mycoplasma segment from the largest animal health players, Elanco and Novartis among several others, and also increasing threat of generics.

TIMO EVA wellness achieved market leadership in the anti-mycoplasma segment in poultry in 2020. TIMO EVA has established India as the largest poultry market for ECO Animal Health's blockbuster product, Aivlosin. Natarajan Elangovan has led TIMO EVA in becoming a trusted long-term strategic partner of a top-20 animal healthcare company. TEWPL continues to sustain market leadership in the anti-mycoplasma segment of poultry in India.

Dr Aman Sayed of Alltech Biotechnology honoured with Best Business Development Leader in Poultry Award 2023

Aman Sayed started his career in mid-2000 working for multinational animal nutrition company and has held different positions, including setting up of R&D farm and technical services for poultry industry. In 2003, he moved to Sharjah and was involved in setting up the free-range poultry project with emirates agriculture technologies. Aman later moved to Dubai serving the equine racing industry overseeing sales and distribution of Kentucky Equine & Research in Middle East countries.



Dr Aman Sayed, Managing Director – India, Regional Director - South Asia, Alltech Biotechnology Pvt Ltd received **Best Business Development Leader in Poultry 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.



He holds a master's degree in veterinary science from Bombay Veterinary College. He has been honoured with a gold medal for his

academic excellence both in graduation and post-graduation. He has more than 23 years of industry experience in both domestic and international markets in technical and management positions. Aman is enriched with the experience of handling multispecies business units and has completed many professional training programs, including Alltech's Executive MBA from UCD School of

Business, Dublin, Ireland.

Aman joined Alltech Biotechnology in India in the year 2005 as Business Development Manager for West India, he has held different positions and responsibilities in Alltech over last 19 years. Presently, Aman is serving in the capacity of Managing Director – India and Regional Director – South Asia.

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Debaraj Das, COO, Baramati Agro Ltd receives Best Chicken Processing Company Award 2023

Seeded in 1988 as a poultry-focused undertaking, Baramati Agro Ltd has now successfully spread across its operations in various sectors like poultry integration, animal and poultry feed, food processing, sugar and ethanol, green power generation, trading of agricultural commodities, export of fruits and vegetables and retailing. The company has united adverse range of agriculture allied activities in the vertex of agri businesses evolving as an internationally recognised agri-conglomerate as per global standards. The company's value is deep-rooted in collective empowerment with the vision "to be a wilful company with an



Debaraj Das, Chief Operating Officer, Baramati Agro Ltd, receiving **Best Chicken Processing Company Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

authoritative role in the global market to create value for all its stakeholders by linking the basics".

Mr Debaraj Das is working hard to make Baramati Agro a strongly established player in Indian poultry industry.



Baramati Agro has been working to improve the lives of farmers and provide a sense of fulfilment to its consumers. The company has religiously focused on three Cs of Customer Satisfaction that is:

- Consistency of Quality
- Consistency of Service
- Consistency of Positive Customer Experience.

Ms Ruby Sharma, CEO, Vesper Group receives Best Young Entrepreneur Award 2023



Ms Ruby Sharma, CEO, Vesper Group, received **Best Young Entrepreneur Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India

VESPER LABS part of Vesper Group was established by a visionary Veterinarian Dr Suresh Sharma for his son Mr Dhruv Sharma in 2002.

The company has the best research and development centre focused on manufacturing of pharmaceutical products and poultry ND killed vaccine by Vesper Group in India. Mr Dhruv Sharma managed the company very efficiently for the first 15 years.

Later Mrs Ruby Sharma CEO of Vesper Group and Proprietor of Vesper Labs took over the reins of the company and is continuing the legacy of VESPER LABS, which has emerged as a leading player in domestic as well as international market. Ruby Sharma working hard to produce quality products

and enhance company's visibility and the turnover in the industry.

Some of the most innovative products added to Vesper Labs in the last two years by Mrs Ruby Sharma's guidance are like Ves Premix 250, NutriVes, Digestim, Mycotox, Orgomin, Spazyme, Sanikleen, VesChromLysinth for poultry industry. Vesper Labs has an active multi-disciplinary R&D program largely focusing on developing new innovative products.

Vesper's vision:

- Create new products and catalyse research
- Maintain quality and ensure efficacy
- Provide customer service with practical solutions
- Double its turnover by 2020

Vets in Poultry honoured with Best Serving Association in Poultry Industry Award 2023



Dr Ajay Deshpande, President, Vets in Poultry along with VIP team receiving **Best Serving Association in Poultry Industry Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Vets in Poultry (VIP) was registered under Government Society Act as non-profitable association on 5 February 2019.

Carrier path of **Vets in Poultry** sector includes the principle hurdle of bridging the gap between academic carry forward and field challenges. Most of the vets do not get this guideline in order to plan the carrier path as it happens in other industries.

Getting connected with experienced, successful senior vets as well as entrepreneurs is a rational solution to this hurdle which is mediated through WhatsApp group further evolved in the form of “VIP”

Looking to mass success and involvement from all segments policy maker, Government authorities, Academicians, Foreign Technocrats, Entrepreneurs, Research, Political, Pharma, Producers and Farmers.

VIP intends to make effective contribution to Indian poultry sector, live chat discussions about current challenges infield, updates, forecasting, technical seminars etc and encountered many false anti poultry propaganda effectively and count goes on and on

We are well aware towards our social responsibilities being affordable protein producer community.

VIP is now registered platform and ready to contribute responsibly to the poultry industry and professionals.

VIP is recognised for

- Neutrality and Transparency
- Networking of knowledge and information amongst technocrats and stakeholders
- Welfare of Veterinarians
- Addressing common issues of poultry industry scientifically
- Promotion of our two products: Chicken and Egg.

Amiya Dharmapada Nath of Japfa Comfeed receives Best Awareness Creation in Poultry Industry Award 2023



Amiya Dharmapada Nath, Vice President – Feed Business, Japfa Comfeed India Pvt Ltd was honoured with **Best Awareness Creation in Poultry Industry Award 2023**. Amiya Nath received the award from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Amiya Dharmapada Nath, working as Vice President and Heading Animal feed business for Japfa Comfeed India Pvt Ltd, a subsidiary of Japfa Ltd, Singapore, a Pan Asian, industrial agri food company having an integrated network of modern farming.

Made a mark with Wonderful efforts

Amiya Nath has been working with Japfa for the last 19 years. He is one of the renowned feed professionals in Indian Animal Feed Industry. After graduated in Chemistry, he started his career in Edible oil & Vanaspati industry in 1999 and then into poultry and animal feed industry after completion of his Master's Degree in Management and Post Graduate diploma in corporate law. He played a key role on Japfa Group's entry into Bangladesh market.

He had arranged more than 300 farmers conferences, meetings and technical seminars and personally interacted with lakhs of

farmers in his working experience to understand farmers issues in poultry, livestock, aquaculture and related agri commodities.

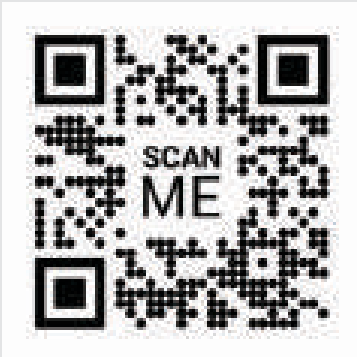
In his 22 years of career, Amiya Nath has personally visited almost all states of India and Bangladesh and all districts in the states like West Bengal, Odisha, Bihar, Jharkhand, Maharashtra, Gujarat, Chhattisgarh, Andhra Pradesh, Telangana, Kerala, Uttar Pradesh, Punjab, Haryana and know the ground reality of poultry and livestock farming. Under his eminent leadership Japfa has been awarded as Best International Feed Miller Award by Indian Poultry journalist association in Hyderabad in 2018 and Best Asian Feed Miller Award in Bangkok in 2014.

Currently doing his Doctorate on Business Administration (DBA) from SSBM, Geneva, Switzerland. Amiya Nath also completed senior management program from Harvard Publishing (An organization under Harvard University) sponsored by Japfa Group.



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Dr Mahesh Shivankar of Japfa Comfeed receives Best Executive with Long Service in Poultry Award 2023



Dr Mahesh Shivankar, Vice President, Japfa Comfeed India Pvt Ltd, was honoured with **Best Executive with Long Service in Poultry Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Dr Mahesh Shivankar

Academic Qualification

- B.V.Sc and Animal Husbandry.

Specialization

- Marketing Essential from Harvard Business Publication.

Dr Mahesh Shivankar started his career in 1999 with Venkateshwara Hatcheries Group based at Hyderabad, worked with a few MNC's in India and Africa, built his career in poultry industry working in different functions like Technical, Techno Commercial, Sales,



Brand Management and Production.

Present Area of Operations

- Vice President at Japfa Comfeed India Pvt Ltd
- looking after over all poultry operations right from Breeder, Hatchery, Integration and New Project development.

They have Asia first NABL Lab to support in various disease diagnostic followed by checking of grains quality with proximate analysis and the toxin profile.

Manish Gajanan Pingale of Micro Labs receives Best Marketing Man in Poultry Award 2023



Manish Gajanan Pingale, General Manager, Micro Labs Limited was honoured with **Best Marketing Man in Poultry Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Manish Gajanan Pingale

EDUCATION

- Pune University (MES Garware College of Science), Bachelor of Science, Chemistry June 1992 - March 1995, Scored 60.40

PROFESSIONAL EXPERIENCE

- Micro Labs Limited General Manager April 2021 - Present
- Directly responsible for Pan-India sales activities for the poultry division
- Managing a team of 17 people in the geography
- Identifying and promoting new business opportunities within existing clients and new markets
- Creating sales strategy and managing the production plan to ensure availability of inventory.



Sales Manager April 2014 - March 2021

- Responsible for sales of the poultry division in Western and Eastern India
- Established new markets in Eastern India and South-East Asia
- Achieved remarkable sales in the said territories.



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Website : www.dsandindia.com

Roshanali's Group receives Best Poultry Healthcare Products Distributor Award 2023



Roshanali's Group, Rahil Roshan Somjee, Managing Director and his father Roshan was honoured with **Best Poultry Healthcare Products Distributor Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Rahil Roshan Somjee in his words

Mr Rahil Roshan Somjee was born in a prosperous family, but nothing came easily for him. My father never handed me money nor did he keep a stash of cash in his pocket. One day, he realized that I need to find my place in our family business and understand my significance. With that realization, he made a bold move. He left everything behind not taking a single rupee with him, along with his wife and two children. My mother without uttering a word shifted us from a grand bungalow to a modest 1 BHK house, where we resided for nearly five years. My father, through sheer determination and hard work, embarked on his own business journey founding "Roshan Enterprises" in Pen, Raigad, Maharashtra. With relentless effort, he carved out a name and reputation in the market.

My own entrepreneurial journey started in Pune, with a rental shop. Many of you here may recall that it was just 150 square feet,



the minimum requirement for a drug license. In that space I ventured into the mobile accessories business, leveraging my experience from Pen, Raigad where I initially dabbled in business.

What my father gave me was far more valuable than money. He imparted the wisdom of forecasting, the power of his name and brand, the importance of ethical business practices, punctual payments to suppliers even when the market was tough, strategies for working on thin margins, and handling situations when funds were scarce. He taught me to take cash discounts from companies that offered more, using the credit from companies that provided maximum credit and making sales on a cash basis, said Mr Rahil Roshan Somjee.

Tara Enterprises receives Best Poultry Healthcare Products Distributor Award 2023



D.S. Subramaniam, CEO, Tara Enterprises receiving **Best Poultry Healthcare Products Distributor Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Mr D.S. Subramaniam has a postgraduate degree in food technology. After an initial stint of three years with Oberoi's flight kitchen, Mr Subramaniam joined with Glaxo's Animal Health Division (now known as Virbac) in the year 1980. He worked with Glaxo for 12 years during which period he was elevated to the rank of regional sales manager for South India based out of Hyderabad. Mr Subramaniam started Tara Enterprises in the year 1995 to Distribute Veterinary Medicines and Feed Supplements for companies like Solvay BE, Glaxo, Hoechst (all multinational companies) etc.

From a meager turnover of Rs 36 lakhs in the year 1995-96, Tara Group has a big turnover of about Rs 500 crores now during the year 2022- 2023. Currently, Tara Group serves as distributor for 22 big multinational and national companies. Tara Group has offices across



South India at Hyderabad, Vijayawada, Rajahmundry, Bangalore, Coimbatore and Namakkal. Tara Group is known for their prompt payments all along. Mr D.S. Subramaniam is known in the poultry industry for his great networking, excellent relations with the top brass of all the big Pharmaceutical companies in India and abroad. He has been the vice President of Poultry Federation of India and abroad.

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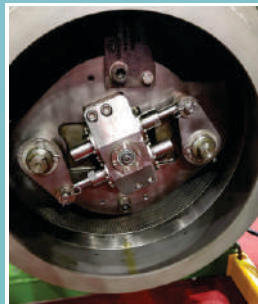


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Dr D.Chandrasekaran honoured with Exemplary Contribution to Poultry Industry Award 2023



Dr Chandrasekaran Duraiswamy, Consultant, Chandra's Vet Clinic was honoured with **Exemplary Contribution to Poultry Industry Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Dr Chandrasekaran Duraiswamy in his words

EDUCATION

- B.V.Sc. in 1977,
- M.V.Sc in Animal Nutrition in 1987,
- Ph.D. in 1993 from Tamil Nadu Veterinary and Animal Sciences University.

As a Poultry Nutritionist, my contribution to the poultry industry started in February 1993. My Main service is feed formulation for all classes of poultry and to feed industry. I developed a least cost feed formulation program to help the farmers to formulate the feed for their livestock and birds. The software was and is being distributed free of cost. This was started in the year 1996, the software is being upgraded regularly and being sent to farmers and consultants whenever I get a mail from these people.

I am a poultry Nutritionist, serving as a consultant to breeders, Layers, commercial broilers, integrators, Desi

breeders and integrators. I established a state of art self-financing Feed analytical laboratory serving the livestock feed industry, first of its kind in India. It serves not only the farmers in India it is also used by the farmers from other countries.

- Established a feed mill in the Department of Animal Nutrition, Veterinary College, Namakkal to train students and industry people in feed manufacturing.
- Established 6 (six) Environmental control chambers to study the impact of various climate conditions on the birds. It is first of its kind in India.
- Helped several farmers and feed manufacturers in establishing feed analytical laboratories and disease diagnostic laboratories.
- I work with farmers working on developing strategies, fixing targets and standardizing methodologies to achieve the targets.

Dr Sudipto Haldar honoured with Exemplary Contribution to R&D & and Technical Services Award 2023



Dr Sudipto Haldar, Ph.D., Director, Agrivet Research & Advisory Pvt Ltd was honoured with **Exemplary Contribution to R&D and Technical Services Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Dr Sudipto Haldar

Professional qualification:

Bachelor's degree in Veterinary and Animal Sciences ; Masters in Animal Nutrition and Ph.D. in Animal Nutrition.

Current position: Director - Research, Agrivet Research & Advisory Pvt Ltd, LakeTown, Kolkata.

After obtaining the bachelor's degree in veterinary science in 1995, Sudipto did his post-graduation from the National Dairy Research Institute, Karnal and then obtained his Ph.D. in Animal Nutrition following which he entered into teaching and research in animal nutrition in the University of Animal and Fishery Sciences, Kolkata, India.

In this role, Dr Sudipto Haldar was involved in different research projects funded by National

authorities and different corporate organisations. The main area of research was trace minerals and enzymes in livestock and poultry. He then shifted his career towards a techno-commercial role as a Technical Manager (South Asia) of a globally renowned enzyme manufacturer. Dr Haldar then started working as the head of Research-Development and Nutrition of Amrit Feeds Ltd, where he was responsible for handling the entire technical operation of the organisation.

In the present role as the Research Director of Agrivet Research & Advisory Pvt Ltd, Sudipto liaisons with the service seekers who want to test the efficacy of their products in poultry models, helps them in designing of experiment for proper assessment of the products.



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- Electrolyte

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Dr Manju N.C. Reddy honoured with Best Poultry Nutritionist (Corporate) Award 2023



Dr Manju N.C. Reddy, Proprietor, SMS Consultancy Services was honoured with **Best Poultry Nutritionist (Corporate) Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Dr Manju N.C Reddy was born in a small town called Chitradurga in Karnataka, completed his graduation in Bachelor of Veterinary Sciences and Post Graduation in Poultry Science with research topic in animal nutrition under able and noble guidance of prof. Deve Gowda as major advisor. Past this, gained total poultry industry experience of 24.5 years with initial brief 1 year tenure with CP India and 23.5 years in Japfa Comfeed India Pvt Ltd. Played pivotal role in setting up bench marks for Indian poultry industry by bringing in revolutionary performances in FCR under the supervision of Japfa Comfeed Indonesia global technical expertise.

Laid foundation of pre-starter feeding concepts in india, setting up standards for alternative ingredients consideration for feed way back in 1999 for a traditional Indian Corn-GN based broiler feeds. Through 23.5 years was an integral part of Pan India activists of Japfa Comfeed handling 7 feed mills in various geographies focussing on GP, parent, broiler and layer nutrition with feed products designed for varying agro climatic conditions of India with consistent deliverables. Feed quality control set up and feed process optimisation for quality feed production and integrating these SOPs to effective nutrition and practical feeding has been his strength all through his carrier.

Dr Soumen Kumar Dandopath honoured with Best Poultry Nutritionist (Individual) Award 2023



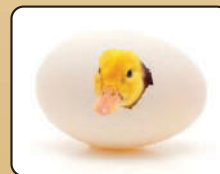
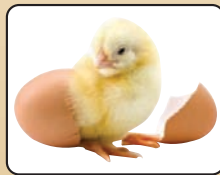
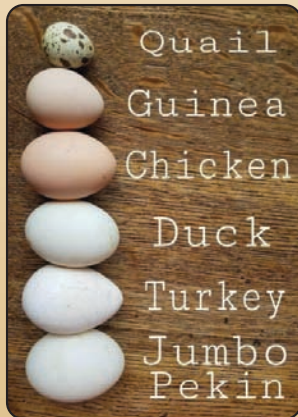
Dr Soumen Kumar Dandopath, Consultant Nutritionist was honoured with **Best Poultry Nutritionist (Individual) Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Dr Soumen Kumar Dandopath

- Started working as an Assistant Nutritionist, Uttara Feeds in early 2001.
- Independently working as a consultant nutritionist from 2008.
- Provide services in Feed Milling Management, Nutritional Laboratory Analytical Services and Feed formulation for broilers, layers and breeders.
- I practice in all aspects of Poultry nutrition, trying to create new benchmarks in terms of efficient broiler production, thus helping farmers to earn more from the available resources, probably has been my biggest contributions to this industry.
- Most of my clients / feed millers whom I work with have set up their own feed analytical labs. We have almost 15 to 16 small and big Nutritional Labs whom I provide my service.
- I am in this business of providing / sharing nutritional knowledge with the feed manufacturing companies for the last 16 years and have been able to make a mark.
- I am working with some of the best known feed companies in the Indian subcontinent.
- Professional - Started my career in 2000. Joined Uttara Feeds, a division of Venkateshwara Hatcheries Group as Production Manager / Assistant Nutritionist. Later in 2004, I was promoted as Business Development Manager. After leaving VH group, I worked as Zonal Technical manager for 2 companies.
- In 2008, I started practicing feed formulations for feed mills on an independent basis and still enjoy doing the same.

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Dr Shri Lankeshwar Sambhaji Waghole honoured with Best Manager in Poultry Production Award 2023



Dr Shri Lankeshwar Sambhaji Waghole, General Manager, Bhairavnath Poultry Farm, honoured with **Best Manager in Poultry Production Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India

Ramdas Shendge honoured with Best Sales & Customer Service in Poultry Award 2023



Ramdas Shendge, Zonal Manager, Vetoquinol India Animal Health Pvt Ltd, Veterinary Pharmaceuticals was honoured with **Best Sales & Customer Service in Poultry Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Ramdas Shendge

Education

- B.Sc- Zoology - 1994
- PMT Venky's Poultry Management 1994-95

Experience

- Lipton Feed 1996 - 1997

- AVITECH June 1997 - 2004

- Natural Remedies 2004 - 2015
- Vetoquinol 2015 - Till Date.

Coverage

- WEST ZONE & PART OF

SOUTH ZONE

- Services
- Toxin Analysis KIT
- HB Activity KIT

Product

- Control & Trial Farms
- Data Analysis
- ROI

New ideas

- Organic Soya DOC trials [Hexane Free Soya DOC]
- Very good performance, improves the FCR & Chicken Quality.

Om Chicks India receives Best Broiler Integrator Award 2023

About Rajendra Tukaram Thorat Academic Qualification

Qualification

- B.Sc in Agriculture

Career Overview

- Date of Establishment: 25 May 2011

Key Persons

- Mr Rajendra Tukaram Thorat (Director)
- Mrs Vanita Rajendra Thorat (Director)

Annual Turnover

- INR 249 crores

Integrated Poultry

Operations

- Broiler Breeds: VenCobb 430
- Number of Growers & Broilers: Growers 1, 091, 345 Birds, Broilers 244, 601 Birds
- Feed Production: Own Feed production (200 tonnes / day)
- Contract Farming: Over 500 farmers

Other Activities

- Contractual Broiler Farming, Feed Production Facilities, Organic



Rajendra Tukaram Thorat, Chairman & Managing Director, Om Chicks India Pvt Ltd was honoured with **Best Broiler Integrator Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

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Laxman (Raju) Bhosale of Yojana Poultry honoured with Best Corporate Layer Farmer Award 2023



Gaurav Bhosale, Director and S/o, Laxman (Raju) Bhosale, Yojana Poultry Pvt Ltd received **Best Corporate Layer Farmer Award 2023** from Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Ashok Mandava of Vijayanagar Egg Farm honoured with Best Layer Farmer Award 2023



Ashok Mandava, Managing Partner, Vijayanagar Egg Farm was honoured with **Best Layer Farmer Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

Mr Ashok Mandava was born in Kotthagudem, Khammam District, Andhra

Pradesh as his maternal grand father was working in Singareni Collieries. His

Sham K Bhagat honoured with Best Corporate Layer Farmer Award 2023



Sham K Bhagat, Proprietor, Bhairavnath HI -Tech Agro Pvt Ltd was honoured with **Best Corporate Layer Farmer Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

About Sham K Bhagat Qualification

- B.Com and LLB

Date of Establishment

- 14 December 1995

Key Persons

- Mr Indrajeet Mule

Cost of Egg Production in the Farm

- Rs 4.45 per egg

Hatchery Received Chicks

- Venkateshwara Hatcheries Pvt Ltd

Practices Being Implemented for Development

- Maintaining good hygiene and proper vaccination from skilled supervising team.

paternal Grand father Mr Mandava Venkatadri who was an agriculture farmer, started their layer farm in Tukuguda, RR Dist, Telangana in 1978 with 1000 Hy-Line Layer Birds which they bought from Mr Shaik Imam of Kasila Farms. Very soon Mr Atchiah Mandava, father of Mr Ashok had to take over the farm management due to sudden demise of Mr Venkatadri. Mr Atchiah Mandava expanded the business swiftly to reach a capacity of one lakh (100,000) Layers by 1994, which was one among the very few big layer farms of that time.

Mr Ashok Mandava after completing his B.Sc (Agriculture) in ANGRAU, Rajendranagar, Hyderabad had joined his father in their layer farm business in 1998 primarily taking care of the feed formulations and nutrition. He was married to Mrs Nagalatha, a girl from Ballari in 1999. This was how he was introduced to the Ballari in Karnataka.

After working with his father for 3 years Mr Ashok and his wife Mrs Nagalatha decided to move to Ballari and start a new layer unit. They along with Mr Durga Prasad Mundlur started Vijayanagar Egg Farm at



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▶▶ Yetthina Budihal, a small village in the border area of Karnataka and AP with a small capacity of 60,000 Layers.

Followed his Father's Advice

On the advice of his father, Ashok was never aggressive in his business expansion as he was aware of the new and evolving challenges like diseases and rumors. On the advice of his father Mr Ashok always was interested in optimizing the feed cost as it was the biggest expense in the entire business. He always used to attend the technical seminars and was

keen to interact and learn from nutritionists and farm management specialists.

Scientific approach needed to survive and grow

He always believed that a scientific approach was the only way poultry farmers can get profits and survive the down turns in a risky livestock business like poultry. In 2018 they had started Brown Egg Production using Hy-Line Silver Brown Breed with Zero Antibiotic usage and started to market their eggs in the brand name of 'Just Laid Golden Eggs'.

Sushil Sawhney of Veekay Farms honoured with Best Layer Farmer Award 2023



Sushil Sawhney, Proprietor, Veekay Farms, Pune and his father were honoured with **Best Layer Farmer Award 2023** and the award was presented to him by Ms Sonali Kulkarni, Cine Artist, Marathi Film Industry and Poultry Fortune Editor M.A. Nazeer during PF Awards presentation function held on September 15, 2023 at Hotel Novotel, Pune, India.

PF Awards 2023 Winners

S. No	Category of Awards	Award Winner Name	Designation / Company Name / Place
1	Best Layer Farmer Award	Mr Sushil Sawhney	Proprietor, Veekay Farms, Vadgaon Maval, Maharashtra.
2	Best Layer Farmer Award	Mr Ashok Mandava	Managing Partner, Vijayanagar Egg Farm, Ballari, Karnataka.
3	Best Corporate Layer Farmer Award	Mr Sham K Bhagat	Proprietor, Bhairavnath Poultry Farms, Pune, Maharashtra.
4	Best Corporate Layer Farmer Award	Mr Laxman (Raju) Bhosale	Managing Director, Yojana Poultry Pvt Ltd, Pune, Maharashtra.
5	Best Broiler Integrator Award	Om Chicks Breeders Pvt Ltd	Mr Rajendra Tukaram Thorat, Chairman & Managing Director, Pune, Maharashtra.
6	Best Sales & Customer Service in Poultry Award 2023	Mr Ramdas Shendge	Zonal Manager, Vetoquinol India Animal Health Pvt Ltd, Veterinary Pharmaceuticals, Thane, Maharashtra.
7	Best Manager in Poultry Production Award	Dr Shri Lankeshwar Sambhaji Waghole	General Manager, Bhairavnath Poultry Farm, Satara, Pune.
8	Best Nutritionist (Individual) Award	Dr Soumen Kumar Dandopath	Consultant Nutritionist, Kolkata, West Bengal.
9	Best Nutritionist (Corporate) Award	Dr Manju N.C. Reddy	Proprietor, SMS Consultancy Services, Pune, Maharashtra.
10	Exemplary Contribution to R&D & Technical Services Award	Dr Sudipto Halder, Ph.D	Director, Agrivet Research & Advisory Pvt Ltd, Kolkata, West Bengal.
11	Exemplary Contribution to Poultry Industry Award	Dr Chandrasekaran Duraiswamy	Consultant, Chandra's Vet Clinic, Namakkal, Tamilnadu.
12	Best Poultry Healthcare Products Distributor Award	Tara Enterprises	Mr D.S Subramaniam, CEO, Hyderabad, Telengana.
13	Best Poultry Healthcare Products Distributor Award	Roshanali's Group	Mr Rahil Roshan Somjee, Managing Director, Pune, Maharashtra.
14	Best Marketing Man in Poultry Award	Mr Manish Gajanan Pingale	General Manager, Micro Labs Limited, Pune, Maharashtra.
15	Best Executive With Long Service in Poultry Award	Dr Mahesh Shivankar	Vice President, Japfa Comfeed India Pvt Ltd, Pune, Maharashtra.
16	Best Awareness Creation in Poultry Industry Award	Mr Amiya Dharmapada Nath	Vice President - Feed Business, Japfa Comfeed India Pvt Ltd, Pune, Maharashtra.
17	Best Serving Association in Poultry Industry Award	Vets in Poultry	Dr Ajay Deshpande, President, Pune, Maharashtra.
18	Best Chicken Processing Company Award	Baramati Agro Ltd	Mr Debaraj Das, Chief Operating Officer, Pune, Maharashtra.
19	Best Young Entrepreneur Award	Ms Ruby Sharma	CEO, Vesper Group, Bengaluru, Karnataka.
20	Best Business Development Leader in Poultry Award	Dr Aman Sayed	Managing Director - India, Regional Director - South Asia, Alltech Biotechnology, Bengaluru, Karnataka.
21	Best Emerging Animal Health Care Company Award	TIMO EVA Wellness Pvt Ltd	Dr Natarajan Elangovan, Founder & Chairman, Bengaluru, Karnataka.
22	Best Poultry Healthcare Company Award	Zenex Animal Health India Pvt Ltd	Dr Chand Bahar, National Sales Manager, Ahmedabad, Gujarat.
23	Best CEO in Poultry Industry Award	Mr O.P. Singh	Managing Director, Advanced Bio-Agro Tech Ltd, Huvepharma SEA (Pune) Pvt Ltd, Pune, Maharashtra.
24	Life Time Achievement Award	Mr Vasanth Kumar Chidambara Setty	Chairman & Managing Director, Quality Poultry Products Pvt Ltd, Miraj, Maharashtra.
25	Life Time Achievement Award	Dr Suresh Sharma	Managing Director, Vesper Group, Bengaluru, Karnataka.

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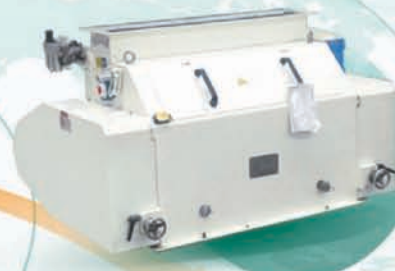
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NON-REFRIGERATED METHODS OF PRESERVATION OF TABLE EGGS

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Eggs are an important and inexpensive source of high-quality protein, vitamins and minerals; consumed as food; functional components of other food products. However, Eggs are highly perishable, quickly losing their quality in the absence of proper storage methods. The eggshell has a natural covering (or) cuticle that seals its pores which helps to prevent the entry of bacteria and loss of moisture. This cuticle is fragile and easily lost during washing procedures, which is necessary to ensure cleanliness and minimize initial contamination. However, the following changes occur during storage of eggs, which leads to spoilage of eggs;

- ▶ Moisture loss through the pores
- ▶ Gaseous (CO₂) loss
- ▶ Change the pH
- ▶ Movement of water from thick albumen to other albumen layers and yolk
- ▶ Entry of microbes through the pores
- ▶ Embryonic development
- ▶ Absorption of foreign odours

Eggs can be preserved to improve the keeping quality either as shell eggs or as egg liquid (whole egg or yolk or albumen).

NEED FOR PRESERVATION:

In developing regions of the world where refrigeration of eggs is seldom practiced because of cost, availability, or feasibility, coating with available inexpensive materials, like oil, can go a long way to reducing both qualitative and economic losses.

NON-REFRIGERATED PRESERVATION OF SHELL EGGS:

The methods for the preservation of the eggshell are based on the simple principle of retarding microbial growth and sealing the pores of the shell to minimize the evaporation and escape of gases, thus reducing the physio-chemical changes in the egg. Sometimes, a combination of methods is employed for effective preservation.

i) Thermal processing:

This method is good for fertile eggs since it kills embryos and therefore is also known as the “defertilization” method. This method includes flash heat treatment, thermostabilization and simultaneous coating.

- ◆ In the case of flash heat treatment, the eggs are immersed for 2 to 3 seconds in water at 71°C. Its advantage is that it destroys bacteria present on the surface of the eggshell.

- ◆ In thermostabilization, the eggs are immersed in water at 49°C for 35 minutes or 54°C for 15 minutes or 56°C for 10 minutes, or 60°C for 5 minutes to stabilize the thick albumen so that such eggs retain fresh appearance much longer than unheated eggs.

- ◆ Simultaneous oil coating and thermostabilization, complement each other in maintaining the internal quality of an egg.

ii) Immersion in liquids:

Under village conditions, liquids like lime water are useful for egg preservation.

- ▶ In lime sealing, 1 litre of boiling water is added to 1kg of quick lime. The fluid is brought to room temperature and 4 to 5 litre of cold water and 225g of table salt are added to it. Once the mixture is settled, the upper clear layer is decanted and used for egg preservation. The eggs are immersed in this clear fluid for 16 to 18 hours and then taken out. Eggs are dried at room temperature and transferred to filter flats. The eggs can then be stored for 3 to 4 weeks at room temperature. The preservative effect of lime water is partly due

to its alkalinity. It deposits a thin film of calcium carbonate on the eggshell surface and thus partially seals the pores.

- ▶ The water glass is prepared by diluting 1 part of sodium silicate with 10 parts of water, and the eggs are left immersed overnight in the water glass. It deposits a thin precipitate of silica on the surface of the eggshell, possesses intrinsic antiseptic properties and does not impart odour or taste to the eggs.

iii) Oil coating:

This is a fairly successful method of rendering the egg less permeable. It can be done by simply dipping the egg in a bowl of tasteless, odourless, colourless edible oil, having a specific gravity of about 0.855 to 0.870 at 15°C; viscosity should not be more than 70 and 90 and having a high pouring point so that at lower temperature it remains in the liquid form.

The eggs are immersed only for a moment and then removed; the excess oil is allowed to drain. If oil treatment is to be effective it should be done preferably at the point of production the day after the egg is laid. Oiling is not a substitute for refrigeration. These eggs must be held at low temperatures. Cotton seed, linseed and groundnut oil are good sealing agents but mineral oils are preferable since they are less subjected to oxidative changes during storage.

The rate of CO₂ escape is considerably reduced in oil-immersed eggs and these eggs are not likely to absorb foreign odours. The oil treatment can also be done by hand or electric sprayer. Eggs are sealed under a vacuum. Oil may be successfully used in the vacuum impregnation method. The egg is first immersed in oil and then subjected to reduced atmospheric pressure; when normal pressure is restored, the tendency of the air to enter the pores of the shell causes the solution also to be drawn in. The oil does not penetrate through the egg membranes. The commercial egg treatment oils are as follows.

- ◆ Heavy paraffin oil
- ◆ Myvacet 9-40
- ◆ Myvacet 5
- ◆ Myvacet 7
- ◆ Petroleum jelly
- ◆ Liquid paraffin
- ◆ Paraffin wax
- ◆ Coconut oil
- ◆ Dalda
- ◆ Carboxyl methylcellulose
- ◆ Technical white oil

iv) Over-wrapping:

For the over-wrapping of eggs; polythene, cellophane, polyvinylidene, and other transparent, thin but sufficiently strong, films are used. These films should be impervious to gases and moisture. Over-wrapping of eggs in different atmospheres like CO₂, vacuum, etc., has also been tried.

v) Chitosan coating:

Chitosan, a deacetylated form of chitin occurring naturally in the shells of crustaceans such as shrimp, crabs and crawfish, has been noted for its film-forming properties. Chitosan coating solution with final pH of 4.52 can be prepared by dissolving chitosan in 1 per cent (v/v) acetic acid at 2 per cent (w/v) concentration. This is then applied to the surface of the egg to form a uniform protective coating.

vi) Whey Protein Concentrate (WPC):

Edible films of protein offer an efficient alternative for packaging which provides barriers to moisture, gas or solute, improves the mechanical integrity of foods, transports food ingredients, and is completely biodegradable, thus reducing environmental pollution. Whey protein films produce transparent and flexible films with an excellent oxygen barrier.

vii) Silver nanotechnology:

Scientists at TANUVAS have developed a new method for the preservation of table eggs by coating paper egg trays with a mixture of silver nanoparticles and binders to increase the shelf life of eggs by at least 14 days. Fresh eggs collected from farms were used for the studies. The eggs are completely covered by sandwiching them between two silver nanoparticle coated paper egg trays that killed both gram-positive and gram-negative bacteria found on eggshells.

Preservation of table eggs allows keeping them fresh for a long time and using them in a way that provides foods with different textures and flavor profiles.

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Role of Gut Axis in Spread of Enteric Infections to other organs in Poultry

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Introduction

The digestive tract of vertebrate animals is complex and has evolved to serve its primary function of supplying nutrients to the host animal, while at the same time serving as a barrier to infection and harm from compounds within the digestive tract. It is also called as gastrointestinal (GI) tract, the lining of which is the largest surface of an animal's body that faces the external environment, has been considered as a sensory organ. It is commonly referred as GUT. The intestine is responsible for facilitating the digestion and absorption of nutrients. It is the largest immune organ in the body, plays an invaluable role in sustaining normal immune defense (GALT-Gut Associated Lymphoid Tissue). The gut is currently assumed to play a central role in sustaining the normal function of other organs and in the pathogenesis of many diseases.

Why is it called gut?

Meaning in old English gutt as (plural) "bowels, entrails," literally "a channel," related to geotan "to pour," from Proto-Germanic gut, from PIE root gheu "to pour." Related to Middle Dutch gote, Dutch goot, German Gosse "gutter, drain," Middle English gote "channel, stream."

Meaning "abdomen / belly".

Evidence from recent research studies describes bidirectional interactions between the gut micro biota and other organs, providing theoretical support for an integrated model that integrates with multiple organs and immune system. The common interaction with organs are: Gut-skin Axis, Gut-Brain Axis, Gut-Lung Axis, Gut-Liver Axis, Gut-Pancreas Axis, Gut-Kidney Axis, and the Gut-Reproductive -Axis. Intestinal disruption or an imbalance of the intestinal flora will alter the function of the gut and imbalance the immune homeostasis which lead to a range of intestinal disorders and diseases of other associated organs.

Bidirectional spread of Gut infections

- Gut-skin Axis,
- Gut-Brain Axis,
- Gut-Lung Axis,
- Gut-Liver Axis,
- Gut -Pancreas Axis,
- Gut-Kidney Axis and
- Gut -Reproductive -Axis.

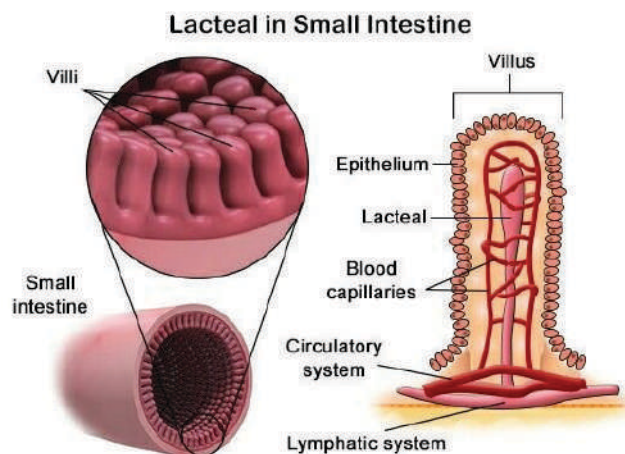


Fig.1, Cross section of Intestine, Villus and its circulation

The nerves hidden in the walls of the digestive system is often called as "brain in the gut". Gut is often called the body's "second brain." Scientists call this 'little brain'- the Enteric Nervous System (ENS). And it's not so little, the ENS is two thin layers of more than 100 million nerve cells lining the gastrointestinal tract from esophagus to rectum. The eating behavior, hunger contractions and the taste is all controlled by intestine-brain axis.

The Balance of Gut Health. Gut health relies on the maintenance of the delicate balance between the host, the intestinal micro biota, the



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intestinal environment and dietary compounds. This balance can be significantly affected by factors such as bird management, feed quality and the birds' environment.

The digestive tract is one of the ecosystems that harbors the largest number and greatest variety of bacteria. Among them, certain bacteria have developed various strategies, including the synthesis of virulence factors such as toxins, to interact with the intestinal mucosa, and are responsible for various pathologies.

A large variety of bacterial toxins of different sizes, structures and modes of action are able to interact with the gastrointestinal mucosa. Some toxins, termed enterotoxins, directly stimulate fluid secretion in enterocytes or cause their death, whereas other toxins pass through the intestinal barrier and disseminate by the general circulation to remote organs or tissues, where they are active.

Similar effects were also observed with the mycotoxin fumonisin. Contamination of poultry feed with 20 mg/kg fumonisin exerts toxic effects on intestinal epithelial cells and induces microbial shift. Fumonisin reduces the length of the small intestine and decrease villus height and crypt depth.

Internal parasites and Coccidial infection also cause severe damage to the intestinal epithelium and the denuded epithelium act as a good medium for bacterial growth.

The difference between Gut Disorders and diseases

Gut Disorder: is characterized by functional impairment and a disruption to the intestinal normal function and structure. Irregularity, disturbance, or interruption of normal functions of the gut. The examples of gut disorders are: Nutritional roup, crop impaction, crop bound, pendulous s crop intussusception etc.

Gut Disease: is a pathological process, enteropathogens in the intestines with a specific cause having characteristic lesions and symptoms.

What is gut inflammation in poultry?

Intestinal inflammation is called as 'enteritis' a condition that causes a roughness in gastrointestinal tract, impairing its ability to absorb nutrients and achieve its growth and genetic potential. Intestinal inflammation can occur from several causes such as infection, trauma, fighting, pecking and other environmental factors.

Enteric Diseases: digestive system disease, any of the diseases that affect the digestive tract may affect the esophagus, stomach, small intestine, large intestine (cloaca) caeca, pancreas, liver, or biliary tract. May spread to Kidneys and oviduct.

The viruses, bacteria and internal parasites are the major gents that causes dysbiosis and disturbs the intestinal immune homeostasis. Some of these diseases are the results of secondary infections and may involve respiratory tracts and other organs. Chicken gut is home for more than 100 trillion microorganisms collectively called the gut microbiota, includes bacteria, fungi, protozoa, and viruses. Among these microbes, bacteria play a dominant role in intestinal functions. They are colonized in different segments with vast diversities; they help in digestion, developing the local immunity, and intestinal health.

The major intestinal infectious diseases in poultry. Based on the nature of the causative agent, intestinal infections can be divided into three categories: parasitic, bacterial and viral diseases (Fig.2).



Fig.2. **Common intestinal infectious diseases in poultry.** Based on the nature of the causative agent, intestinal infections can be divided

into three categories: parasitic, bacterial, and viral diseases. Source: Samiru Wikramsrya et.al 2022)

Bidirectional Spread of poultry Infections

1. Gut - Skin - Axis: The microbiome plays an important role in a wide variety of skin disorders. Not only is the skin microbiome altered, but also surprisingly many skin diseases are accompanied by an altered gut microbiome. The microbiome is a key regulator for the immune system, as it aims to maintain homeostasis by communicating with tissues and organs in a bidirectional manner. Hence, dysbiosis in the skin and/or gut microbiome is associated with an altered immune response, promoting the development of skin diseases such as Gangrenous Dermatitis (GDS), streptococcal and staphylococcal infections, Cutaneous Marek's Disease and Cutaneous Pox.

2. Gut - Lung - Axis: In chicken, the most common bacterial genera found in the respiratory are Escherichia, Shigella, Enterococcus, Proteus, Micrococcus, Lactobacillus and Staphylococcus. Emerging evidence has uncovered a cross-communication between the gut and respiratory microbiota, which has been called "the gut-lung axis".The major infections traverse between gut and lung are Mycoplasma, infectious Coryza,ND, IB,ILT and adenoviral infections.

3. Gut - Brain -Axis

The gut-brain axis refers to the bidirectional communication system between the GI tract and the central nervous system; it plays a responsible role in mediating neural, immunological and hormonal signaling. The role of the gut microbiota in this relationship is crucial because it forms a complex. The complex interacting components of the intestinal system that influence bird's growth performance and host-microbial homeostasis. The intestines covering dense network with the autonomic nervous system and the enteric nervous system that maintains the homeostatic mechanism which balances the intestinal microflora. The brain controls the peripheral

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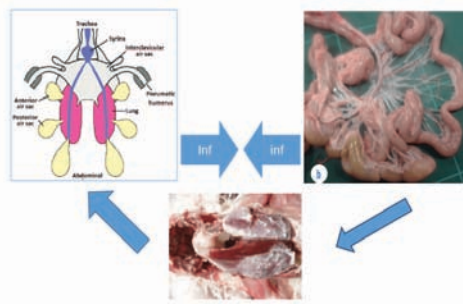
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intestinal functions and mechanisms such as immune activation, intestinal permeability, enteric reflex, and entero-endocrine signaling.

Fig 3. A) Gut-Lung axis and b). Gut-Brain axis (Source: State of the art in research on the gut-liver and gut-brain axis in poultry) b) Samiru Wikramsrya et.al (2022) Role of Physiology, Immunity, Microbiota and Infectious Diseases in the Gut Health of Poultry

4. Gut-Liver -Axis: The enterohepatic axis represents a close bidirectional relationship between the intestine and the liver. Intestines and the liver communicate via the portal vein and systemic circulation. A healthy liver is a barrier between systemic circulation and the intestines. Metabolites produced by the intestines are transported through the portal vein to the liver. At the same time, the liver transports bile salts and antimicrobial molecules to the intestinal lumen through the bile ducts. In this way, it controls the unlimited growth of bacteria. A diseased liver cannot properly inhibit bacterial overgrowth, eliminate harmful by-products, and accelerate regeneration. The liver is also one of the immune organs, activating adaptive and innate immunity mechanisms after exposure to intestinal bacteria in the circulatory system.

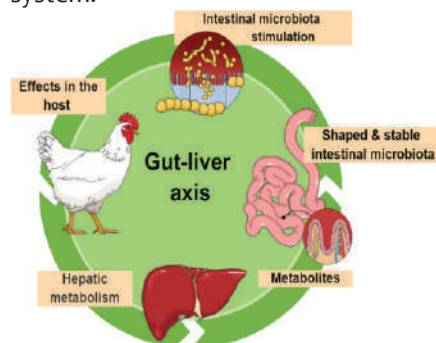


Fig .4. Gut-Liver axis (Source:State

of the art in research on the gut-liver and gut-brain axis in poultry)

Liver diseases in poultry farming can be caused by both qualitative and quantitative changes in the gut microbiota. The gastrointestinal tract (GI) of chickens contains diverse and complex microbiota which contribute to digestion and absorption of nutrients, immune system development, and pathogen exclusion. The common infections transmit from gut to liver are: Salmonellosis, paratyphoid infections, E.coli, Clostridial infections, Comphylobacteriosis, adenoviral infections, LL and MD.

Fowl adenoviruses (FAdV) in chickens are the etiologic agents of two important diseases known as inclusion body hepatitis (IBH) and hepatitis hydro pericardium syndrome (HHS). A syndrome referred to as gizzard erosion has also been linked to FAdV (especially FAdV-1) in several countries around the globe (fig.6).

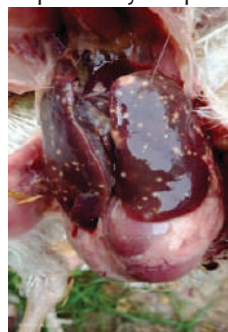
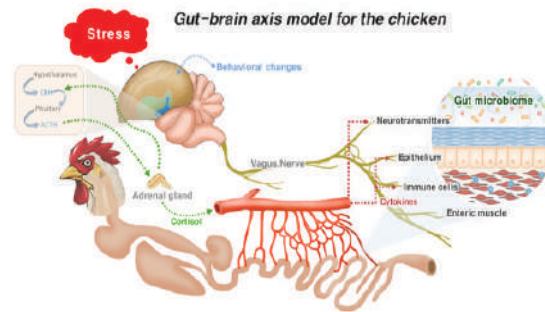


Fig 6. Spotty Liver disease of chicken due to Campylobacter hepticus: whitish-gray military spots on the surface of the liver,

Based on electron microscopic examination of feces and intestinal contents, several different viruses also have been identified as causes of gastrointestinal tract infections in poultry. These include rotaviruses, coronaviruses, enteroviruses, adenoviruses, astroviruses, and reoviruses.



In addition, a number of other viruses of unknown importance have been associated with gastrointestinal diseases in poultry. Viral infections of the gastrointestinal tract of poultry are known to negatively impact poultry production, and they likely contribute to the development of other, extra gastrointestinal diseases.



Fig. 6. Inclusion Body Hepatitis and Hepatitis Hydro Pericardium Syndrome in Poultry

5. Gut- Pancreatic -Axis: Pancreas is unique in its functions, both as an exocrine and endocrine organ as well. While the exocrine pancreas secretes digestive enzymes into the duodenum, the endocrine pancreas is composed of the islets of Langerhans, which contain specialized hormone-secreting cells. These cells include a cells, β -cells, d-cells, and δ -cells, which secrete glucagon, insulin, somatostatin, and pancreatic polypeptide, respectively. The endocrine pancreas plays a critical role in regulating glucose homeostasis. Adenovirus commonly cause Necrotizing Pancreatitis and Gizzard Erosion in Chickens.

6. Gut- Renal -Axis:

The most common causes of kidney disease in poultry starts from dietary issues. Other, much-less-frequent causes of kidney damage can be certain strains of avian bronchitis, some disinfectants and insecticides, and overuse of some antibiotics such as sulphadru

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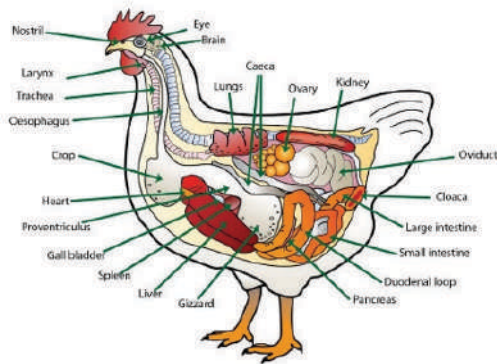


Fig.7. Gut-Kidney -Axis in spread of infections

There are many causes of kidney diseases and disorders including infections (bacterial, viral, fungal and parasitic), tumors, heavy metal toxicity, vitamin D toxicity and other nutritional excesses, metabolic disorders (such as gout), and blockages or obstructions.

Renal Disorder a kind of kidney disease in which there is an inflammation, loss of kidney function and in worst condition led to kidney failure. Urolithiasis, a degenerative renal disease, which is caused by the formation of urolith in the ureters of laying hens. It is also caused when uric acid becomes too high in the bloodstream and kidney is unable to remove that excess uric from the body. With the accumulation of excess toxins in the blood and kidney, the absorption of nutrients from feed lowers which lowers the health and growth.

The nutritional or metabolic causes of gout include- excessive dietary calcium, high protein diet, excess salt, low phosphorus, imbalance between Ca-P levels, adulteration of feed with urea, deficiencies of vitamin A and D, high altitude farming, water deprivation followed by over dosages of certain drugs like sulphas and the antibiotic aminoglycosides often causes kidney damage, managemental stress like, high brooding temperature and higher level of ammonia concentration in the shed can also cause high mortality due to gout, mycotoxins and phytotoxins, poisoning with phenolic disinfectants or insecticides, and infectious causes viz. bacteria (*Salmonella*, *E.coli*) and viruses (*Infectious bronchitis virus (IBV)*,

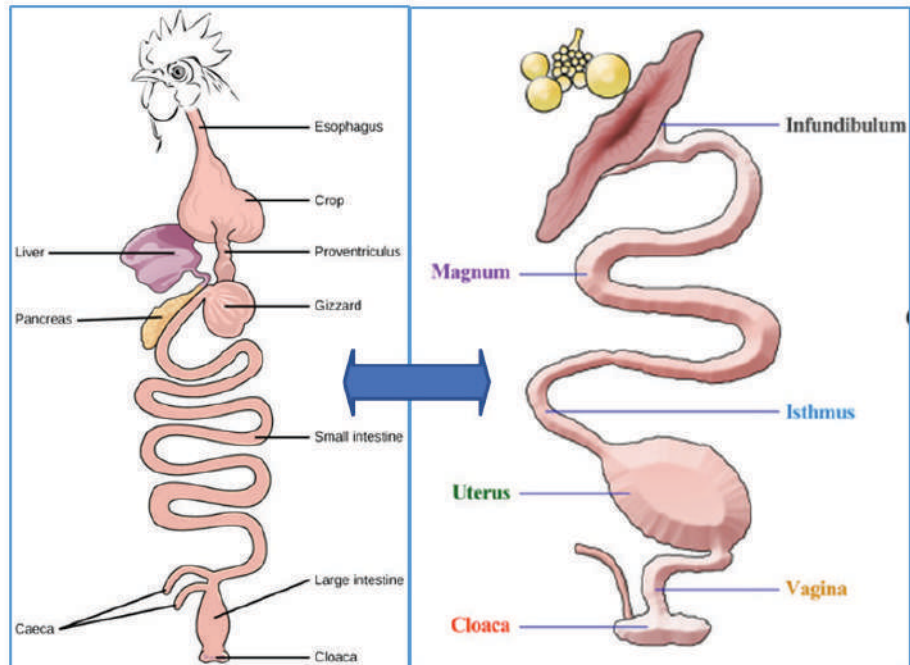
avian nephritis virus (ANV) and chicken astro -virus. Bacteria can enter the kidney either by ascending the ureters or by hematogenous spread from gut. In either type of infection, the kidneys may be grossly enlarged with variable degrees of necrosis.

Fatty Liver and Kidney Syndrome (FLKS) mostly affects younger birds; it can be caused by nutritional and metabolic issues; primarily a lack of biotin absorption from the gut.

Fungal infection of the kidney occurs either as an extension of a fungal infection of the abdominal air sacs or as a component of fungemia where a fungus has invaded a vessel, resulting in fungal thrombosis of blood vessels. Fungal hyphae in the lesion give it specificity.

to the cloaca. As the feces drain through the cloaca of chickens, the cloacal bacteria transmit from the digestive system to oviduct also. The microbiota inhabiting the colon, cloaca, and magnum, is all same.

The Pathogens can transfer from the gut to the oviduct but likely all microorganisms in the gut, including commensals. In poultry. The vertical transmission of gut pathogens from hens to eggs and progeny has been known for some time. Pathogens, such as *Salmonella enterica* and *Campylobacter jejuni*, have been shown to colonize the oviduct, thus embedding themselves in the developing egg.



7. Gut- Oviduct- Axis: Anatomically the terminal parts of the urinary, reproductive, and digestive systems of birds all connect

Fig.8. Oviduct and Ureters empty in to common passage -cloaca While *Salmonella enterica* serovar Enteritidis may be able to infect

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the poultry ovary, most Salmonella serovars are thought to colonize the oviduct. Furthermore, Salmonella bacteria can survive the albumen environment of the egg. Hence, a transmission route starting from the gut, passing through the oviduct, on the way to the egg and the chick has been established for pathogens.



Fig.9. Egg Peritonitis forms a good medium for bacterial growth and spread of infection to intestines and other associated organs inside the abdomen

Artificial Insemination (AI)

AI is commonly practiced in breeder flocks kept in cages. Often this also poses a risk of possible transmission of various infectious pathogens / diseases of poultry through semen or its contamination or during the process of insemination. Hence, careful and regular screening and monitoring of poultry will help to check the spread of such diseases, Infections likely transmit through semen are Infectious bronchitis virus (IBV), avian anaemia virus, leucosis virus, Newcastle disease virus (NDV), Avian rotavirus, Infectious bursal disease virus (IBDV); Escherichia coli, Pasteurella (fowl cholera), Campylobacter, Salmonella, Chlamydia, etc., apart from Sexually Transmitted Microbes (STM's) during route of fertility, could be transmitted as possible contaminants during AI.

Bacterial Diseases of Poultry gut are:

- * Escherichia coli infections.
- * Salmonellosis.
- * Paratyphoid infections.
- * Fowl cholera.
- * Riemerella anatipestifer infections.
- * Mycoplasma.
- * Necrotic enteritis.
- * Cholangiohepatitis in broiler chickens.
- * Spiroketosis.

Viral diseases of poultry gut are:

Enteric viruses of poultry are common and pervasive. They are potentially responsible for production diseases resulting in substantial financial losses. Many of these viruses have RNA genomes that continually evolve, leading to multiple circulating strains of varying pathogenicity. Viral infections of the gastrointestinal tract of poultry are known to negatively impact poultry production, and they likely contribute to the development of other, extra gastrointestinal diseases.

Several different viruses have been identified as causes of gastrointestinal tract infections in poultry. These include rotaviruses, coronaviruses, enteroviruses, adenoviruses, astroviruses, and reoviruses.

- * Coronaviral Enteritis of Turkeys.
- * Rotavirus Infections of Poultry.
- * Astro-virus Infections in Poultry.
- * Chicken Parvovirus and Turkey Parvovirus Infections.
- * Picornavirus Infections in Poultry.
- * Adenoviruses
- * Reo -Viruses
- * Calci-viral particles

Diagnosis

Gastrointestinal diseases are common in floor-raised chickens. One way to clinically assess the gastrointestinal health of poultry is to observe their feces. While there are conditions, such as intestinal parasitism, that primarily affect the gastrointestinal tract, conditions of other systems, such as respiratory disease, might present with gastrointestinal signs (e.g., diarrhea). On postmortem examination recognition of typical lesions and serological confirmation, isolation and identification of organisms help in diagnosis.

Conclusions

The GI tract has the most extensive exposed surface in the body, and a wide variety of factors associated with diet and infectious disease agents can negatively affect the delicate balance among the components of the chicken gut. Disturbances in this balance may affect health status and productive performance of birds in commercial poultry operations.



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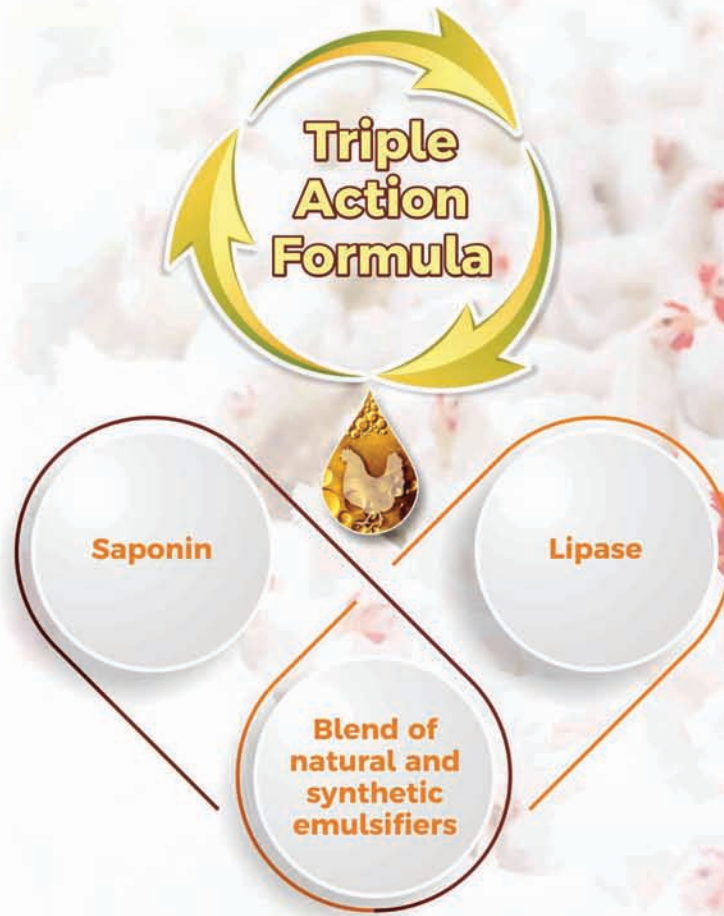


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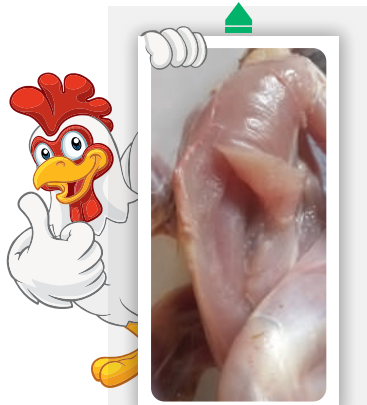
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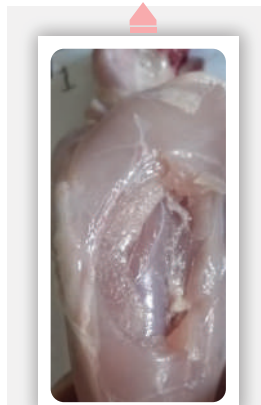


VAKSIMUNE® Coryza LE

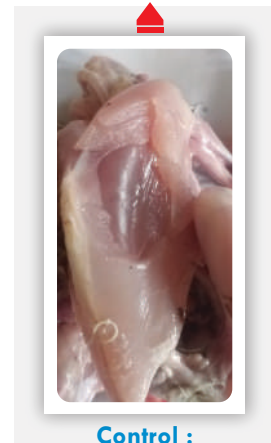
Low Immunodepression : Low or no Local Reaction



VAKSIMUNE® Coryza LE
Low or No Local Reaction



Other Infectious Coryza Killed Vaccine :
Severe Local Reaction



Control :
No vaccination-
No Local Reaction



● Early and Long Lasting Protection

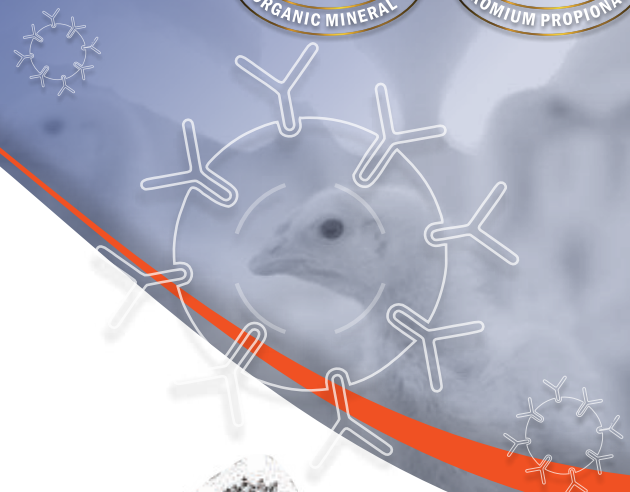
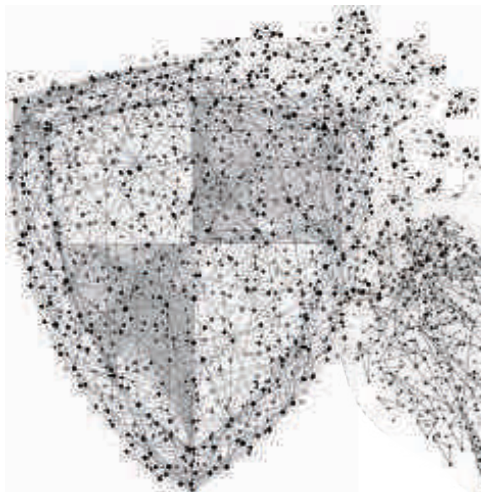
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