



A Brief Profile



Agrivet Research & Advisory Private Limited
(Formerly known as Agrivet Consultancy Pvt. Ltd.)

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About Agrivet Research & Advisory Private Limited

www.agrivot.in

Agrivet Research & Advisory Private Limited (previously known as *Agrivet Consultancy Pvt. Ltd.*) started its journey in 2012 as a **Technical Advisory** provider aimed to undertake technical and business consultancy services in animal production technology for interested partner organizations.

Within a few days, the organization felt the latent need of creating a proper scientific research facility in the field of “Poultry Nutrition” and decided to establish another vertical, **Agrivet Research Center**, where the product performance study is being conducted by Agrivet.

Agrivet Research Centre became an automatic choice for the established multinational and Indian organizations to generate real, authentic, relevant and detailed local data as a proof of concept for their extreme hard work in New Product Development and ongoing product refinement.

Agrivet is an **ISO 9001:2015** certified organization and provides **Full Circle Research Based Technical Solutions** in the field of animal nutrition and health, led by a team of dedicated technopreneurs.



About Agrivet Research & Advisory Private Limited

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Consultancy Pvt. Ltd.
Innovation | Precision | Excellence

agrive
RESEARCH & ADVISORY
Innovation | Precision | Excellence

is now

AGRIVET
Consultancy
Pvt. Ltd.

AGRIVET
Research & Advisory
Pvt. Ltd.

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Integrated Multidimensional Research Facility

Grassroot Level Understanding of Animal Agriculture and Health

High Research Throughput resulting in **Smart Delivery**

Precision Output in Minimum TAT (Turn Around Time)

Driven by **Experienced Technopreneurs**

Turnkey Project Consulting for Livestock Farming and Allied Services

Expert Livestock Advisory for **varied climatic conditions**

Presence throughout Indian Sub-Continent and South-East Asian countries

250+ Global and Domestic projects handled

100+ satisfied clients throughout the globe

3 PhD, 6 Veterinarians, 4 Biotechnologists, 2 Microbiologists

Total 8 Laboratories to support the Research projects

Fully operational Broiler, Layer & Aquaculture research facility

Broiler Breeder research facility is under construction

Simulation of actual commercial broiler farm

State of the art Poultry Training School

Dr Shivaji Dey

M V Sc (Poultry Science), PGCBM (XLRI)

Being the founder Director, Dr Shivaji drives the organizational strategies with major focus in areas of nutrition support through formulation and corporate management. His expertise extends to poultry, aqua, ruminant and swine nutrition, quality control and assurance of cereal grains, Six-Sigma implementation in plant process control and broiler integration etc. Dr Shivaji has more than 23 years of experience in the field of Poultry Nutrition and worked in areas of Poultry Breeding, R&D and Technical Services with multinational giants like Kemin and Alltech. He is presently involved as a senior consultant in poultry, soya, aqua and dairy projects in one of the large Corporate Group in India and provides technical supports in various capacities to the poultry industry spanning in many countries of South Asian regions including India, Bangladesh, Nepal, Sri Lanka, Thailand, Vietnam, Malaysia, Indonesia and Japan.





Dr Sudipto Haldar

Ph D (Animal Nutrition)

Dr Sudipto started his career as a Animal Nutrition professional in the year 1997. He worked as an Assistant Professor of Animal Nutrition in WBUAFS and was associated with research projects mainly on gut health of poultry and developing feeding strategies for broiler chickens free from antibiotic growth promoters. The other focus area of his work during this period was application of enzymes in poultry. He published more than 60 scientific papers and was invited as a key speaker in different scientific forum at international levels. Dr Sudipto worked as the Technical Manager of AB Vista-UK and led the R&D division of a large Corporate Group in India. Dr Sudipto is heading the Research vertical of Agrivet with his enormous experience in dealing with new challenges and inquisitiveness to work with **out of the box hypothesis**. Apart from the R&D, Dr Sudipto provides nutritional and business operational supports to clients in India, Nepal, Bangladesh and Bhutan.

Dr Anirvid Sarkar

M V Sc (Genetics & Breeding), PCPGM (IIM-Kozhikode)

Dr Anirvid is an expert on macro and micromanagement of livestock business operations like supply chain management, QA & QC, breeding, hatchery management, feed milling, import, procurement and commercial activities, laboratory operations etc. Dr Anirvid has specialized in conceptualization and implementation of all styles of greenfield projects by effectively assisting the entrepreneurs in poultry and livestock sectors. Dr Anirvid has 19 years of experience in areas of broiler breeder technical operations, hatching eggs & chicks business, techno-commercial positions in additives marketing, heading poultry feed manufacturing business etc. He looks after the commercial, strategies, project design, execution, feed mill management & audit, quality control of grains in India, Bangladesh, Nepal and other SEA countries. Dr Anirvid is instrumental in establishing the state-of-the-art research infrastructure of Agrivet experimental farm embracing modern technology installed in every routine function of R&D.





Dr Amrita Dhara

M V Sc (Veterinary Epidemiology & Preventive Medicine)

Dr Amrita started his journey in the field of poultry breeding in 2004 with Venkateshwara Hatcheries Pvt. Ltd., a renowned pure line poultry breeding company in India. He looks after the disease prevention and control management, production efficiency management and other technical aspects of poultry breeding, commercial broilers and hatchery operations. He has gained experience through working in production house of broiler breeding farm and layer breeding farm of Venkateshwara Hatcheries in North India. Dr Amrita was the technical service provider to the broiler breeding farms under VHPL in Eastern India and Bangladesh. He has expertise in epidemiology, prophylaxis, disease diagnosis and treatment, setting up broiler breeding and commercial farm projects in different agro-climatic conditions of North India, Eastern and North-Eastern part of India, Nepal, Bangladesh and other South Asian countries. His expertise in managing Poultry GP operations has also been recognized by the industry.



Dr Arindam Chatterjee

BVSc & AH, PGDM (LIBA-Chennai), MCP (IIM-A)

Dr Arindam is a Management Professional with more than 20 years of experience of working in Animal Agriculture Industry. He fell in love with the spirit of Entrepreneurship when he was pursuing his PGDM from Loyola Institute of Business Administration (Chennai). During his further management education in IIM-A he picked up the nuances of enterprising ecosystem in Business Organizations. Dr Arindam is well known as a risk taker, passionate team builder and a fast learner. During his professional career spanning two decades in various MNCs and Indian companies Arindam demonstrated his core expertise in building start-ups, scaling businesses and managing P&L responsibilities.

Dr Arindam is presently associated as a Strategy Architect and trying to help Agrivet grow the CRO activities, Analytical & Diagnostic Lab Services, Skill development training institute and exploring other new business opportunities.

The Team

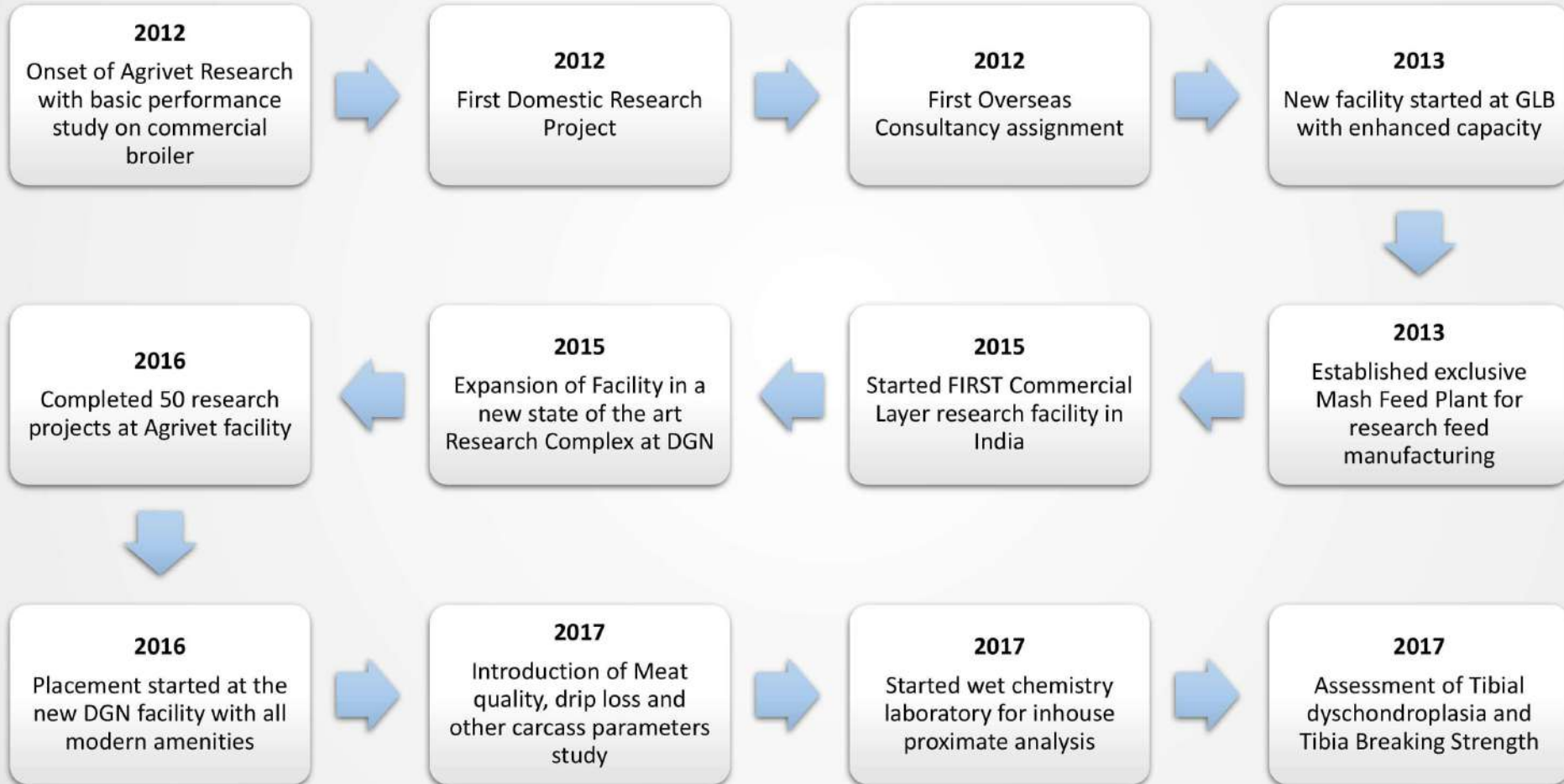
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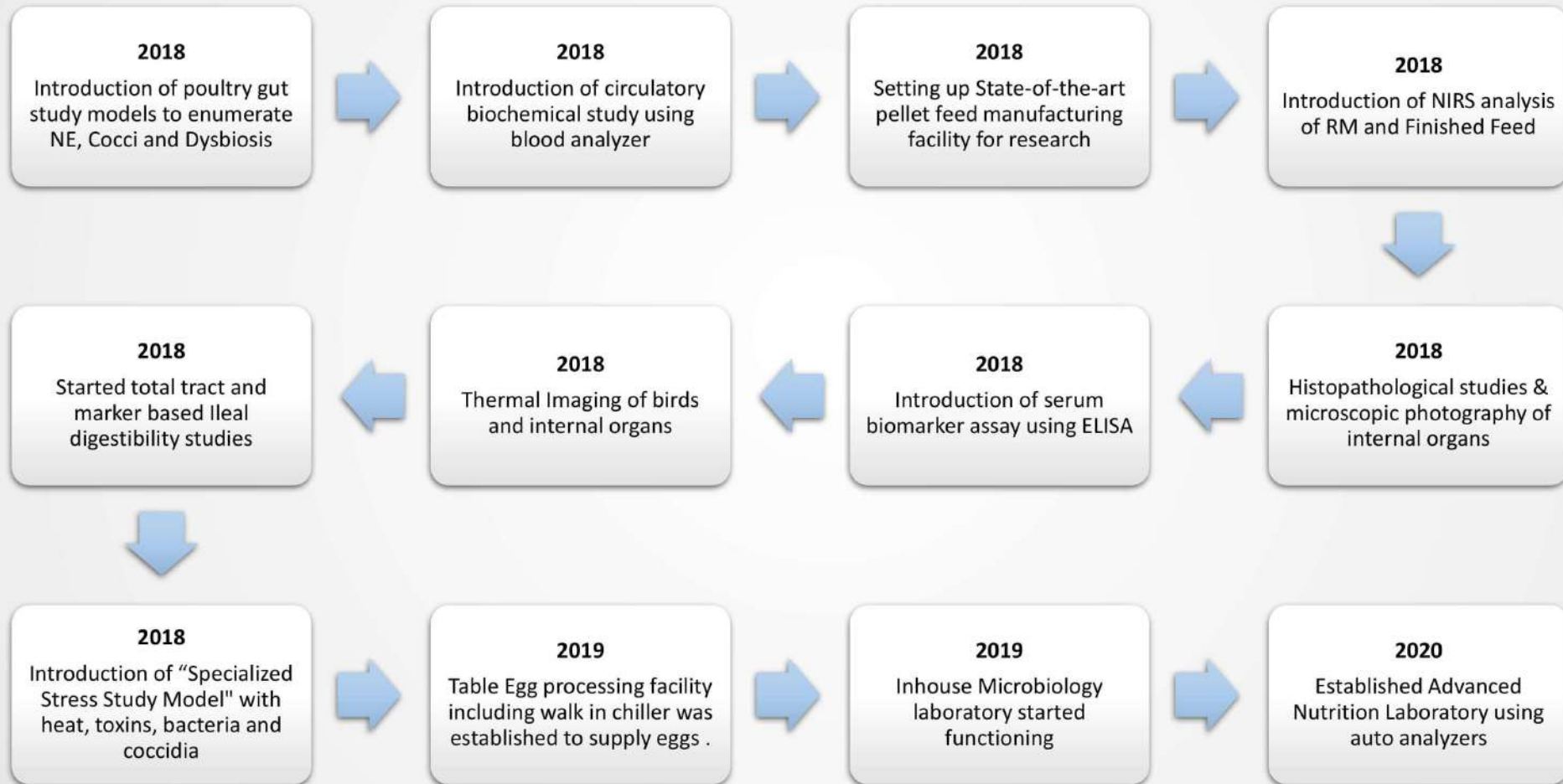
Md. Monirul Islam	Head - Operations	BA (General)	Head of Farm operation, Farmers Training
Anindya Maitra	Head - New Market Initiatives	B Tech (Production)	New Market Initiatives
Dr Sayantani Sihi Arora	Head - Research Laboratory	Ph D (Biotechnology)	Research Lab service
Dr Arpana Verma Mukherjee	Manager - Research Laboratory	Ph D (Animal Biotechnology)	Industrial Research service
Arup Nayak	Manager - Research Laboratory	M Tech (Biotechnology)	Lab Services, Research Services
Dr Sk Md Kamrul Hasan	Manager - Research Farm	B V Sc & AH	Research Services, Lab Services
Dishari Dutta	Manager - Operations	B Sc (Botany)	Coordination, Operations
Jeegyasha P Kanungo	Executive - Research Laboratory	M Sc (Biotechnology)	Lab Services, Research Services
Sudita Basak	Executive - Research Laboratory	M Sc (Biotechnology)	Lab Services, Research Services
Ankita Purkayastha	Executive - Research Laboratory	M Sc (Coastal Aquaculture)	Laboratory Coordination, Operations
Indranil Haldar	Executive - Research Laboratory	M Sc (Bioinformatics)	Lab Services, Research Services
Sourav Maity	Executive - Research Laboratory	B Sc (Chemistry)	Lab Services, Research Services
Amlan Sarkar	Manager - Quality Control	BA (General)	RM Inspection, Quality Assurance
Satya Gopal Dhara	Executive - Research Laboratory	Diploma - Electronics	Lab Services, Research Services
Sourav Sen	Executive - Feed Milling	B Com (General)	Feed Plant Operations
Tapas Jana	Technician - Feed Milling	Diploma - Mechanical	Feed Plant Maintenance
Biswajit Haldar	Executive - Feed Milling	-	Feed Plant Operations

The Team

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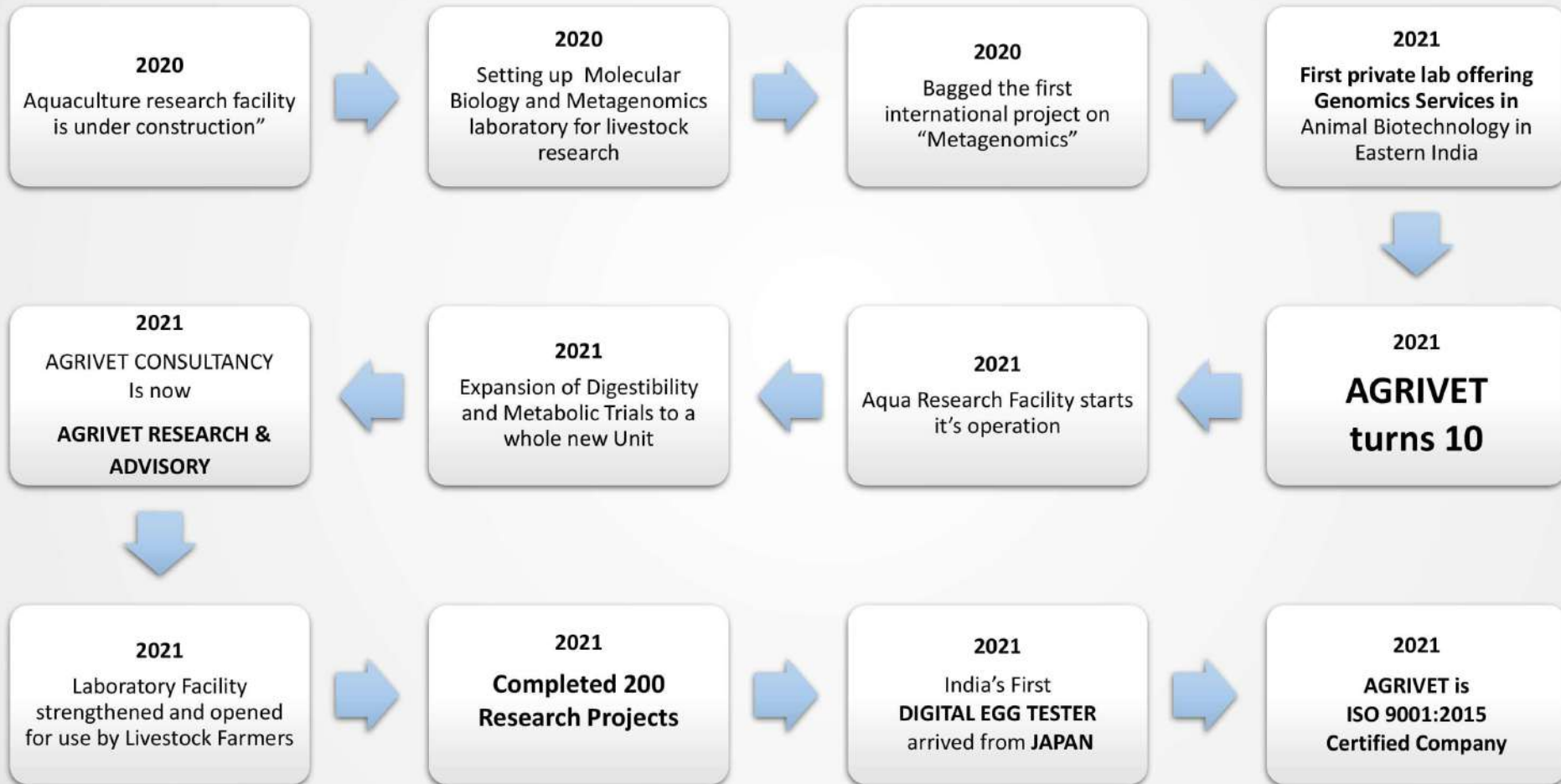






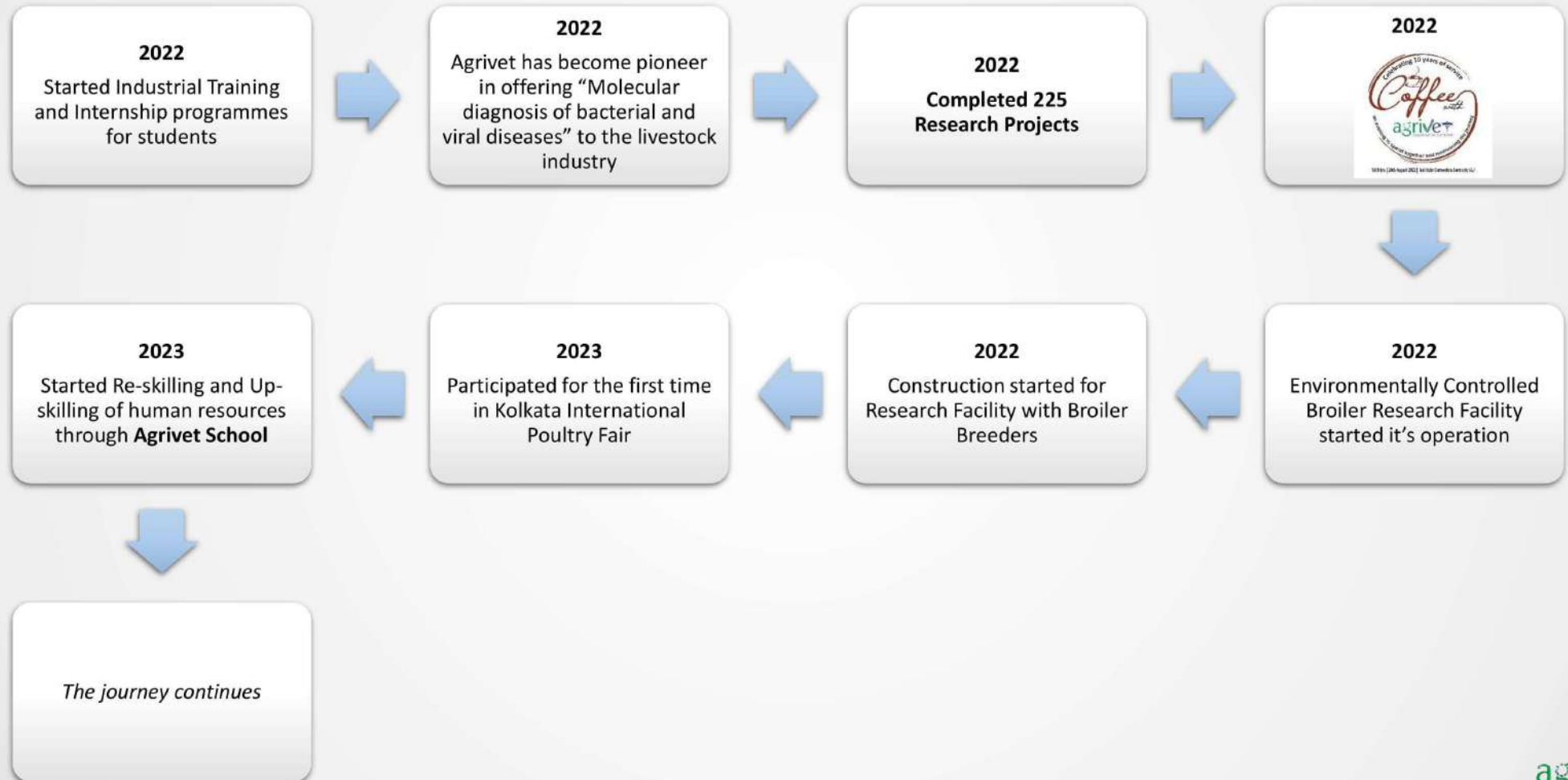
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About Agrivet Research & Advisory Private Limited

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Agrivet Services:



**Agrivet
Research**

**Agrivet
Advisory**



**Agrivet
Laboratories**

**Agrivet
School**



Agrivet Research:

- Agrivet is India's only Independent Private Livestock Contract Research service provider with 100+ Indian and Global clients.
- At Agrivet Research Center, basic and applied research is carried out for benefiting the livestock fraternity across the globe.
- Agrivet research facilities are systematically designed and ideal for research planning and perfect representation of current farming scenario in tropical countries.
- The experimental station consists of, two research farms, equipped with state-of-the-art facilities, integrated with feed plant, meat processing facility & laboratory services.
- The Corporate office and Biotechnology laboratory are located in Kolkata while the experimental stations are about 45 minutes' drive from the NSCBI Airport.



Poultry Research:

- **Commercial Broiler:**
 - Broiler Performance study
 - Stress study with Microorganisms, Heat, Mycotoxins
 - Metabolism trials
 - Carcass evaluation
 - Blood Biochemical & Haematological profile
 - Histological parameters
 - Immune parameter studies
 - Internal organ monitoring
 - Leg health and bone mineralization studies
 - Metagenomics & Gene Expression Studies



Poultry Research:

- **Commercial Layer:**
 - Layer Production Performance study
 - Study combining Growing and Laying phase
 - Gut health study
 - Body weight, Egg production, Feed consumption, FCR, Mortality
 - Egg weight and Egg mass
 - Measurements of Haugh Units
 - Yolk pigmentation (YCF 4 to 15)
 - Strength of Shell
 - Shell thickness



Poultry Research:

- **Feed Milling:**
 - Pelleted feed manufacturing unit (capacity: 100kg/h)
 - Mash feed manufacturing unit (capacity: 100kg/h)
 - A precision premixing facility is available where additives in small quantities are added into the final batch following progressive dilution technique through a 6 kg and 20 kg fine mixer.
 - Vast choice of ingredients to formulate diets as per the need of research is available.

Study of Feed Production parameters:

- Pelleting parameters
 - Pellet Durability and hardness.
 - Particle size distribution analysis.
- Measurement of pelleting throughput.



Broiler Breeder research:

- Agrivet is coming up shortly with a state of the art Environmentally Controlled Broiler Breeder Research Facility.
- This is going to be Asia's First privately held art Environmentally Controlled Broiler Breeder Research Facility.



Aqua Research:

- Agrivet has created and standardized the first modern indoor aquaculture research facility in Eastern India.
- The facility is commensurable with the high standards of international aquaculture research standards.
- Using the “Biofloc” technology of aquaculture, series of food grade circular FRP tanks are installed in an indoor shed with external aeration system fitted in every individual tank.
- The targeted varieties are:
 - Tiger Prawn (*Penaeus monodon*), White Shrimp (*Fenneropenaeus indicus*), Pacific White Shrimp (*Litopenaeus vannamei*)
 - IMC: Catla (*Catla catla*), Rohu (*Labeo rohita*) & Mrigal (*Cirrhinus mrigala*)
 - Catfish: Magur (*Clarius batracus*), Shingee (*Heteropneustus fossilis*), Tangra (*Mystus sp.*)
 - Tilapia (*Oreochromis sp.*), Shol (*Channa striata*), Leta (*Channa punctatus*), Koi (*Anabas sp.*)
- Water & soil testing facilities with well equipped laboratories has been established.



Capabilities: Product Development

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Product Development:

- Agrivet has a strong team with expertise in assessing the need of Livestock industry in terms of nutrition, health and husbandry aspects.
- The basic research activity is in full swing for Exploration and New Product Development with its integrated infrastructure.
- Collaboration with overseas and Indian partners is the key strength of Agrivet in the domain of NPD.
- Agrivet is looking forward to get associated with different biotechnology initiatives taken by the state and central government.



Capabilities: Advisory

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Agrivet Advisory:

- Technical Consultancy in India, Bangladesh, Nepal, Bhutan and SE Asia
- ACPL has a team of, inhouse technical experts and hands on professionals, to provide technical consultancy in following areas:
 - Animal Feed Formulation & Nutrition (*Poultry – Dairy – Aqua – Swine*)
 - Poultry Breeding Operations & Management
 - Hatchery Management
 - Feed Processing and Production Technology
 - Feed Plant and Farm Process Audits
 - Sourcing of Raw Materials & other Inputs
 - Raw Material inspection service
 - Quality Control & Assurance of Raw Materials
 - R&D and QC Set-up Implementation Services
 - Conceptualization & implementation of Turn-key project: *Breeder, Layer, Broiler, Feed plant, Hatchery and other animal husbandry projects*
 - Consultancy in New Product Development for Animal Feed: *Raw Materials, Additives, Supplements*



Capabilities: Laboratory

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AgriVet Laboratories:

- Diagnostics & Laboratory Service for the livestock industry.
- **Molecular Biology:** PCR and RT-PCR based metagenomics lab
- **Microbiology & Parasitology:** Identification & Enumeration of Bacteria, Fungus, mold & Parasites.
- **Biotechnology & Biochemistry:** ELISA, UV Spectroscopy, Blood Biochemistry
- **Histology & Histopathology:** Histology, Histomorphometry, General Pathology and Post-mortem
- **NIRS & Wet Chemistry:** Real Time RM and FP analysis through Near-infrared Spectroscopy. Proximate analysis through wet chemistry methods
- **Feed Technology:** Pellet Durability, Pellet Hardness, Pellet Dissociation and Fine analysis.



Capabilities: Laboratory

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Delivering Excellence with Precision



- Established in 2007, AGRIVET RESEARCH AND ADVISORY PRIVATE LIMITED (Publicly Listed) and Advisory Service Private (Publicly Listed) of South Asia. During past few years, AGRIVET has provided comprehensive services for livestock, poultry and aquaculture through its extensive network of regional offices, branches, diagnostic centers, and research centers across the globe.
- AGRIVET is the only private lab organization exclusively engaged in High-end Molecular and Biotechnological applications in Veterinary Medicine and Animal Nutrition. With its well-equipped laboratory set up and highly qualified, skilled and dedicated laboratory workforce, managing the R&D division, AGRIVET delivers wide range of services for the clients. These services range from traditional serology and microbiology to the latest technological techniques for cutting-edge investigations and diagnostics.
- The focus of AGRIVET is to provide highest quality laboratory services for the development of state-of-the-art research equipment and techniques for the Indian and global industry.

NUTRITIONAL PROFILING

Nutritional Chemical Profiling of all Feeds and Raw Materials using NIRS and Conventional Wet Chemistry Techniques

- Proximate analysis, Fiber analysis, Cellulose, Cellulose Acid, Cellulose Oxidation
- Analysis of Phytic Acid, Starch, and Free Amino Acids
- NIRS, NIRS Software, NIRS Calibration, NIRS Validation, NIRS Data Analysis, NIRS Software, NIRS Software
- Proximate Analysis, Cellulose, Cellulose Acid, Cellulose Oxidation, Starch, NIRS, NIRS Software, NIRS Calibration, NIRS Validation, NIRS Data Analysis, NIRS Software, NIRS Software

MICROBIOLOGY

Microbiological Diagnosis using Conventional Laboratory Techniques

- Bacterial Identification: Gram Stain, Culture, Biochemical, Serological, Molecular
- Fungal Identification: Culture, Microscopy, Histology, Molecular
- Parasitology: Culture, Microscopy, Histology, Molecular
- Antimicrobial Susceptibility Testing
- Antigen and Antibody Detection
- Fungal Identification: Culture, Microscopy, Histology, Molecular
- Parasitology: Culture, Microscopy, Histology, Molecular

BIOCHEMISTRY

All Blood and Serum biochemical profiles and parameters using Automated Blood Biochemistry Analyzers

- Liver Enzymes
- Kidney Enzymes
- Lipid Profile
- Electrolytes
- Glucose
- Albumin
- Hematology
- Calcium
- Phosphorus
- Creatinine
- Urea Nitrogen
- Hematocrit
- Hemoglobin
- Hematocrit
- Hemoglobin

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SEROLOGY/IMMUNOLOGY

Wide range of serological assays for the detection of various infective agents from the blood serum of livestock using ELISA Techniques:

- Infectious Bursal Disease
- Newcastle Disease
- Infectious Bronchitis
- Microcystic Alveolar Necrosis
- Avian Influenza
- Avian Leukosis
- Avian Paramyxovirus
- Avian Chlamydia
- Avian Myxomatosis
- Avian Cholera
- Avian Tuberculosis
- Avian Malaria
- Avian Cryptosporidiosis
- Avian Cryptosporidiosis
- Avian Cryptosporidiosis

RT-PCR MOLECULAR BIOLOGY

Cutting edge Molecular Biology Research spanning Genomics & Metagenomics, their application in Molecular In-Vivo Diagnosis, Pathogenesis & Transgenic analysis of various genes & pathways.

- Molecular detection of various viral diseases from blood/serum/urine
- Gene expression correlated aspects: RNA isolation, cDNA preparation and gene expression analysis using qPCR, real-time RT-PCR, qPCR, RT-PCR, qPCR, RT-PCR, qPCR
- Microarray genotyping using microarrays
- Microarray genotyping using microarrays
- Microarray genotyping using microarrays

BIOTECHNOLOGY

- Microarray genotyping using microarrays
- Microarray genotyping using microarrays
- Microarray genotyping using microarrays

PATHOLOGY & PARASITOLOGY

- Histopathology and Histology study of tissues and organs
- Histopathology and Histology study of tissues and organs
- Histopathology and Histology study of tissues and organs

FEED TECHNOLOGY

- Feed quality analysis
- Feed quality analysis
- Feed quality analysis

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Moving forward from CONVENTIONAL RESEARCH... The MOLECULAR BIOLOGY, BIOTECHNOLOGY and METAGENOMIC approach based research in AGRIVET CONSULTANCY PVT. LTD.



Limitations of traditional techniques in POULTRY RESEARCH

Traditional procedures in poultry research were extensively based on culture techniques to isolate desirable microorganisms and sequencing the genome of one organism at a time for identification purpose. These limitations can be overcome by the use of metagenomics. Unlike traditional gene sequencing, metagenomics eliminates the need to cultivate and isolate individual microbial species and can be applied to mixed communities of microbes instead of just one organism. Another approach of molecular genetics research in the poultry industry involves the restructuring of microorganisms to create novel genomes with improved immunisation capability.

Area of Expertise of ACPL

- Metagenomics of chicken gut microbiome
- Detection & identification of pathogenic bacterial strains using molecular techniques
- Study of molecular factors involved in avian coccidiosis
- Assessment of DNA damage and repair by comet assay
- Transcriptomic analysis using quantitative real-time PCR (qRT-PCR) and RNA-seq
- Proteomics

**80% of Bacteria are Unknown
Only 1% of Bacteria are known**

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Approaches for STUDYING

- **METAGENOMICS**
Metagenomics of chicken gut microbiome from fecal or intestinal digesta samples using Illumina HiSeq 6000 platform with most updated 1.5 chemistry 250bp read length.
- **DETECTION OF APIC**
Detection of molecular identification of Avian pathogenic E. coli from intestinal samples using PCR techniques.
- **MOLECULAR STUDY OF AVIAN COCCIDIOSIS**
Identification of molecular factors playing vital role in determining the severity of the disease as well as preventing fighting the coccidial infection. Determining the molecular, immunomodulatory factors involved in the coccidial infection of poultry. Determining, validating and establishing the efficacy of feed supplements and additives against avian coccidiosis by assessing the molecular factors and studying the expression of different genes involved in fighting the infection.



STUDY OF DNA DAMAGE THROUGH COMET ASSAY

- Mycotoxins lead to DNA damage and subsequently apoptosis in the host tissues.
- Detection of DNA damage through Comet Assay

TRANSCRIPTOMIC STUDIES USING REAL-TIME QUANTITATIVE PCR (qPCR)

- Understanding the molecular mechanisms behind the occurrence and control of different feed supplements, additives as well as various products used as health and immunity boosters in poultry. These data provides appropriate validation, establishing the bioactive properties of the feed additives.
- qRT-PCR reactions will be performed for the analysis of transcriptional data.
- Alternate approach involves the whole transcriptome sequencing using RNA-seq technique.

NEED FOR PROTEOMICS

- It is seen that many times the level of transcription of a gene \neq level of expression of the gene.
- mRNA degradation and inefficient transcription can lead to decrease in the accuracy of the experimental results.
- A single gene can result in many proteins due to alternative splicing etc.
- A single protein may be responsible for many biological processes and functions.
- These can only be detected by proteomics.



Applications

- Understanding molecular regulation of the cell
- Understanding and validating functions of the gene
- Studying cellular dynamics, functions and macromolecular interactions of the cell.
- Diagnosis and prognosis.

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Capabilities: School

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Agrivet School:

- To enhance technical knowledge and impart training to the existing workforce in Animal Husbandry industry and to freshers who are ready to join this sector.
- Mentored by some of the leading technocrats in the field of Animal Husbandry and Animal Nutrition Research.
- With its own infrastructure and integrated set-up in a green campus, courses are right mix of classroom-based and onsite hands-on knowledge transfer.
- Courses are targeted for On-job professionals and Freshers who are ready to join the industry.
- Knowledge enhancement of their mid management and skill upgradation of their junior management employees.
- Summer Training, Internships and Industrial Training activities are taken up for the interested students and educational institutions.



Capabilities: School

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**INTERNSHIP
INDUSTRIAL TRAINING
SUMMER TRAINING**

Who Can Attend?

B.Sc. / B.M. / B.V.Sc. / B.Sc. / M.Sc. - Bred/Genetics / Microbiology / Molecular Biology / Genetics / Zoology / Biochemistry / Botany / Biotech. / M.Tech. - Biotechnology / Food Technology and other interested individuals.

Duration: 01 / 02 / 06 months

AgriVet Research & Advisory Private Limited was set up in 2012 with the core belief to improve Animal Husbandry and Livestock research in the country. In India, Livestock is an unorganized sector and lags behind other sectors as there is no proper research to monitor and minimize the commonly occurring diseases of general livestock. Our organization is unique and one of its kind, equipped with high end research facilities in the field of Livestock R&D. Hence, we now aim to nurture and train young minds and inculcate within them the idea of the vast potential in the field of livestock research.

TRAINING PROVIDED ON:

- Hands on experience on Molecular and Microbiology Techniques
- Good Laboratory Practices
- Handling of different Laboratory instruments
- Basic understanding and working of Livestock R&D
- Reagent preparation, handling techniques and safety protocol
- Sterilization and decontamination process demonstration
- Use of Spectrophotometer
- Handling of pathogenic organisms and Protocols
- Microbial manipulations
- ELISA
- Extraction and purification of genomic DNA from various samples (microbial, animal tissues, animal digesta, environmental samples etc.)
- Agarose Gel Electrophoresis
- RNA extraction
- Gene expression study using qRT-PCR
- Biochemical analysis of blood and serum
- Primer designing
- Polymerase Chain Reaction (PCR)
- Visually analysis of various biological samples using Microscope
- Tissue analysis
- Histopathology

Fees for the training: 01 month: 10,000/- INR | 03 month: 25,000/- INR | 06 month: 40,000/- INR

Corporate Office: 714, Lake Town, Block-A, Kolkata, West Bengal-700 000
Research Laboratory (R&D), Bista Anbada Gurgaon, Haryana-125004
Research Center 1 & Laboratories, Jhansi, Kanpur, Deoria, Prayag (U.P.), West Bengal-713121
Research Center 2, Dakshinesh, Gokulm, Barisal, Jorhgaon, West Bengal-743423

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**Industry Orientation Program:
Poultry Nutrition-Level 1**

PROGRAM MODULE

Raw Materials for engineering Feed Quality

- Critical assessment of raw materials: Energy sources
- Critical assessment of raw materials: Protein sources
- Unconventional raw materials
- Importance of precision nutrition in poultry
- Broilers, layers and breeders

Raw Materials-when can they turn into your Liability?

- Importance of QAB QC of raw materials and finished goods
- Mycotoxin management
- Possible problems in stored grains
- Laboratory techniques to detect mycotoxins, pesticides & other contaminants
- Common adulterants and their detection in animal feed

CRITICAL ASSESSMENT OF FEEDS IN FORMULATION AND FEED EFFICIENCY

- The basics of poultry feed formulation and application of enzymes
- Nutrient density in diet and flock performance
- Practicality of low protein diets in sustaining flock performance

Key takeaways for a Nutritionist:

- Importance of early nutrition in building up immunity
- Final impact on performance
- Beyond crude fibre
- Biomarkers and microbiome

Live session on Feed Formulation

- Least cost feed formulation and use of software
- Considerations while deciding about purchasing additives
- How to tie up the maximum and minimum while starting a new formulation set.
- Feed formulation strategy under periods of crisis

What role does a Nutritionist play in the business landscape of your organization?

- Changing market dynamics: evolving role of a Nutritionist.
 - Nutritionist, as a Growth Strategist.
 - Nutritionist, as a Financial Saviour
 - Nutritionist, as a Techno-commercial right hand
 - Nutritionist, as a Risk Mitigator
- Enterprise level level responsibilities of a Nutritionist
- Strategic operations: Horizontal and vertical integration
- Strategic CAPEX
- Managing Fixed and Variable costs - led by a Nutritionist

To Register or to receive further information about the program, please mail us at school@agrivet.in or reach us on +91 9330022177

Info@agrivet.in | +91 9330022177
<http://agrivet.in/agrivet-school.asp>

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**Make Clients EAGER!
To Meet your Sales Team.**

AgriVet School has launched a unique hands-on-training program to sharpen the skill of sales and technical professionals of poultry industry.

Poultry industry has seen vast changes over last few years. The very business context of industry has evolved a lot. For staying relevant and engaged with clients, it's imperative for business professionals to upskill, refresh and enhance their own knowledge skill.

To address this unmet demand, AgriVet School launches a smart re-skilling program for poultry sales professionals, **Industry Orientation Program: Poultry Business (Level-1)**.

This hands-on-training program is specifically designed to suit **Poultry Feed, Additives, Pharmaceutical, Biologicals and ancillary industry employees.**

This program will help them engage with clients in a meaningful way, delivering fantastic 'solution-centric' buying experience to their clients.

Date: 12-17th May 2023 (Duration: 6 days)
Program Type: Fully Residential @ Kolkata
Delivery mode: In person (In-class room and on-farm/feed mill)
Facilities: Prominent subject matter experts from the industry

To Register or to receive further information about the program, please mail us at school@agrivet.in or reach us on +91 9381936585.

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PROGRAM HIGHLIGHTS:

- The Program is aimed at offering a 360-degree view of Broiler Farm Management, Layer Farm Management, Diseases and Health needs of Poultry, Operations of Broiler Integration, Operations in a Feed Mill, Perspectives of a Poultry Nutritionist, Perspective of Poultry Feed Sales Business.
- All the sessions are designed to sensitise the participants about the challenges and motivators in the daily life of their clients with a variety of perspectives.
- Expected outcome of the sessions are to enable the participants to engage into more personalized and meaningful (not just his own product's story) sales conversations with clients which may finally lead to solving problems for the clients.
- The sessions are delivered by eminent industry experts (15-25 years of experience) in a crisp, methodical, and application-oriented manner. The objective of the program is to get your team to a newer level of 'Solution-Sales' approach from a current practice of 'Product-Sales' orientation.
- All the sessions are planned in our Training Campus which houses our Research Stations, Commercial Farms, Advanced Poultry Diagnostic Labs and a Pellet Feed Mill.
- As an icing on the cake, each day's session ends with a dinner interview with an Industry Leader who would speak about latest trends and advancements in Poultry.
- It's a 6 day long fully residential program. The course package includes: Hotel accommodation (double-sharing basis), all meals, local transfers (between hotel and training campus), study materials and stationeries of the program. The program fee excludes charges for any in-room dining and beverages.

To Register or to receive further information about the program, please mail us at school@agrivet.in or reach us on +91 9381936585.

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Infrastructure Overview

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Selected Scientific Publications

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Sudipto Haldar*, Anirvid Sarkar, Amrita Dhara, Shivaji Dey. Effects of dietary supplement of natural calcium and phosphorus bioavailability enhancer (MagaCal) on performance, bone mineralization and serum calcium binding protein activity (Calbindin D9K) in broilers. Proceedings of IPPE 2022, Atlanta, USA

David Diez*¹, Julia Pie¹, Anna Tesouro¹, Sudipto Haldar², Amrita Dhara². Natural prevention of coccidiosis and necrotic enteritis in experimentally infected broilers. Proceedings of IPPE 2022, Atlanta, USA

Mohiuddin Amirul Kabir Chowdhury, Amrita Kumar Dhara, Shivaji Dey, Anirvid Sarkar, Sudipto Haldar, Glenmer Bathan Tactacan. Protease Complex Reduces Potentially Pathogenic Microbial Populations in the Ileum While Optimizing Performance of Broiler Chickens. Animal and Veterinary Sciences. Vol. 9, No. 1, 2021, pp. 16-23. doi: 10.11648/j.av.s.20210901.13

Chowdhury MAK, Dhara AK, Dey S, Sarkar A, Tactacan BT, Haldar S. (2021). Dietary supplementation of a microencapsulated essential oil-organic acid blend with and without a protease affects performance, nutrient accretion, cecal microbiota and circulatory biomarker concentrations in male broiler chickens. Letters in Animal Biology 01(01): 19 – 33.

A Dhara, D Verma, S Dey, A Sarkar and S Haldar. (2019) Assessment of tributyrin as a replacement for antibiotic growth promoters in broiler diets: effects on performance, selected bacterial population in digesta, intestinal histomorphology and immune responses (measured through vaccine titres). Acta Scientific Veterinary Sciences 1: 22-31.

Pathak, M., Mandal, G. P., Patra, A. K., Samanta, I., Pradhan S. and Haldar, S. (2016) Effects of dietary supplementation of cinnamaldehyde and formic acid on growth performance, intestinal microbiota and immune response in broiler chickens. Animal Production Science. <http://dx.doi.org/10.1071/AN15816>

Toshi Wati, Ghosh, T. K., Syed, B. and Haldar, S (2015) Comparative efficacy of a phytogenic feed additive and an antibiotic growth promoter on production performance, caecal microbial population and humoral immune response of broiler chickens inoculated with enteric pathogens. Animal Nutrition 1: 213-219.

Singh A.K., Ghosh, T.K., Creswell, D. and Haldar, S (2015) Effect of supplementation of betaine hydrochloride on physiological performance of broilers exposed to thermal stress. Open Access Animal Physiology. Doi.10.2147/OAAP.S83190.

Selected Scientific Publications

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Murugesan, G. R., Syed, B., Haldar, S and Pender C. (2015) Phytogetic feed additives as an alternative to antibiotic growth promoters in broiler chickens. *Frontiers in Veterinary Science*. Doi. 10.3389/fvets.2015.00021.

Singh AK' Ghosh TK and Haldar S. (2015) Effects of methionine chelate- or yeast proteinate-based supplement of copper, iron, manganese and zinc on broiler growth performance, their distribution in the tibia and excretion into the environment. *Biological Trace Element Research*. DOI 10.1007/s12011-014-0222-2.

Singh, A., Walk, C., Ghosh, T.K., Bedford, M.R. and Haldar, S (2013) Effect of a novel microbial phytase on production performance and tibia mineral concentration of broiler chickens fed low calcium diets. *British Poultry Science* 54: 206-215.

Singh, A., Masey O'Neil, H.V., Ghosh, T.K., Bedford, M.R. and Haldar, S (2012) Effects of xylanase supplementation on performance, total volatile fatty acids and selected bacterial population in caeca, metabolic indices and peptide YY concentrations in serum of broiler chickens fed energy restricted maize-soybean based diets. *Animal Feeds Science and Technology* 177: 194-203.

Ghosh, T.K., Haldar, S Bedford, M.R., Muthusami, N. and Samanta, I. (2012) Assessment of yeast cell wall as replacements for antibiotic growth promoters in broiler diets: effects on performance, intestinal histo-morphology and humoral immune responses. *Journal of Animal Physiology and Animal Nutrition* 96: 275-284.

Haldar, S Ghosh, T.K., Toshiwati and Bedford M.R. (2011) Effects of yeast (*Saccharomyces cerevisiae*) and yeast protein concentrate on production performance of broiler chickens exposed to heat stress and challenged with *Salmonella enteritidis*. *Animal Feed Science and Technology* 168: 61-71.

Muthusamy, N., Haldar, S, Ghosh, T.K. and Bedford, M.R. (2011) Effects of hydrolysed *Saccharomyces cerevisiae* yeast and yeast cell wall components on live performance, intestinal histo-morphology and humoral immune response of broilers. *British Poultry Science* 52: 694-703.

Samanta, S., Haldar, S. and Ghosh, T.K. (2010) Comparative efficacy of an organic acid blend and bacitracin methylene disalicylate as growth promoters in broiler: effects on performance, gut histology and small intestinal milieu. *Veterinary Medicine International* (Published online doi:10.4061/2010/645150).

Bahadur, V., Haldar, S. and Ghosh, T.K. (2010) Assessment of the efficacy of L-lysine sulfate vis-à-vis L-lysine hydrochloride as sources of supplemental lysine in broiler chickens. *Veterinary Medicine International* (Published online doi:10.4061/2010/964076).

Selected Scientific Publications

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Mondal, S., Haldar, S., Saha, P. and Ghosh, T.K. (2010) Metabolism and tissue distribution of trace elements in broiler chickens fed diets fed deficient and plethoric levels of copper, manganese and zinc. *Biological Trace Element Research* 137: 190-205.

Roy, A., Haldar, S., Mondal, S. and Ghosh, T.K. (2010) Effects of Supplemental exogenous emulsifier on performance, nutrient metabolism, and serum lipid profile in broiler chickens. *Veterinary Medicine International* (Published online doi:10.4061/2010/262604).

Samanta, S., Haldar, S., Bahadur, V. and Ghosh, T.K. (2008) Chromium picolinate can ameliorate the negative effect of heat stress and enhance performance, carcass and meat traits in broiler chickens by reducing the circulatory cortisol level. *Journal of the Science of Food and Agriculture* 88: 787-796.

Haldar, S., Samanta, S., Banerjee, R., Sharma, B. and Ghosh, T.K. (2007) Glucose tolerance and serum concentrations of hormones and metabolites in goats (*Capra hircus*) fed diets supplemented with inorganic and organic chromium salts. *Animal* 1: 347-356.

Haldar, S., Ghosh, T.K., Pakhira, M.C and De, K. (2006) Effects of incremental dietary chromium (Cr³⁺) on growth, hormone concentrations and glucose clearance in growing goats (*Capra hircus*). *Journal of Agricultural Science (Cambridge)* 144: 269-280

Amatya, J. L., Haldar, S. and Ghosh, T. K. (2005) In vitro uptake of chromium from inorganic and organic sources across everted intestinal sacs of poultry. *Indian Journal of Animal Sciences* 75: 680-684.

Ahmed, N, Haldar, S., Pakhira, M. C. and Ghosh, T.K. (2005) Growth performances, nutrient utilization and carcass traits in broiler chickens fed with a normal and a low energy diet supplemented with inorganic chromium (as chromium chloride hexahydrate) and a combination of inorganic chromium and ascorbic acid. *Journal of Agricultural Science (Cambridge)* 143: 427-439

- S. Haldar (20) Practical solutions for water quality issues – Part 1: Water availability and disease transmission. Asian Poultry: 8-10
- S. Haldar (2020) Practical solutions for water quality issues – Part 2: Microbial and chemico-physical standards. Asian Poultry: 12-16.
- S. Dey, AK Dhara, A Sarkar and S Haldar (2016) Utilising cotton seed meal in broiler diets. Asian Poultry: 42-45.
- S. Agarwal, S. Saxena and S. Haldar (2017) A novel enzyme-DFM combination helps to improve broiler performance under cyclic heat-stress condition. Livestock and Feed Business:40-42.
- D. Creswell and S. Haldar (2015) Utilising roasted guar meal in broiler diets. Asian Feed Magazine: 30-33.

The level and source of dietary calcium influences phytase effects in broilers

Dr. SUDIP HALDAR and DR. RAJESH KUMAR

Recent research indicates that broiler performance is significantly influenced by the level and source of dietary calcium. This article discusses the impact of calcium on broiler growth and bone development, and how phytase can improve calcium utilization in broiler diets.

Introduction

Calcium is an essential nutrient for broilers, playing a critical role in bone development and egg production. The level and source of dietary calcium can significantly influence broiler performance. This article discusses the impact of calcium on broiler growth and bone development, and how phytase can improve calcium utilization in broiler diets.

Key findings

- Higher dietary calcium levels (1.2%) resulted in improved broiler growth and bone development compared to lower levels (1.0%).
- The source of calcium (natural vs. synthetic) also influenced broiler performance.
- Phytase supplementation improved calcium utilization in broiler diets, leading to better growth and bone development.

Utilising cotton plant and dehusking waste before oil extraction has enabled the industry to produce deproteinized-deoiled cotton seed meal (DCSM) suitable for use in poultry diets

Dr. SUDIP HALDAR, Dr. RAJESH KUMAR, Dr. ANIL KUMAR, and Dr. RAJESH KUMAR

Recent research indicates that broiler performance is significantly influenced by the level and source of dietary calcium. This article discusses the impact of calcium on broiler growth and bone development, and how phytase can improve calcium utilization in broiler diets.

Introduction

The utilization of cotton plant and dehusking waste before oil extraction has enabled the industry to produce deproteinized-deoiled cotton seed meal (DCSM) suitable for use in poultry diets. This article discusses the benefits of DCSM and how it can be used in broiler diets.

Key findings

- DCSM is a high-quality protein source that can be used in broiler diets.
- DCSM is rich in essential amino acids and vitamins.
- DCSM is a good source of calcium and phosphorus.
- DCSM is a good source of fiber and lignin.

Cotton seed meal economises layer production

Dr. SUDIP HALDAR, Dr. RAJESH KUMAR, Dr. ANIL KUMAR, and Dr. RAJESH KUMAR

Recent research indicates that broiler performance is significantly influenced by the level and source of dietary calcium. This article discusses the impact of calcium on broiler growth and bone development, and how phytase can improve calcium utilization in broiler diets.

Introduction

Cotton seed meal (CSM) is a by-product of the cottonseed oil extraction process. It is a rich source of protein and essential amino acids, and can be used as a feed ingredient in poultry diets. This article discusses the benefits of CSM and how it can be used in layer diets.

Key findings

- CSM is a high-quality protein source that can be used in layer diets.
- CSM is rich in essential amino acids and vitamins.
- CSM is a good source of calcium and phosphorus.
- CSM is a good source of fiber and lignin.

Presentation

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Year	Venue	Conference/Symposia	Title of presentation	Presenter
February 2023	Jabalpur, Madhya Pradesh	WVPA (India) Conference	Modulation of the Microbiota–Gut–Brain Axis – The future strategy to augment poultry productivity in future	Sudipto Halдар
February 2023	Kolkata, India	NOVACON 2023	Digging into the gut-brain axis to enhance poultry performance: the role of GABA as a game changer	Sudipto Halдар
September, 2022	Kolkata, India	AgriGate 2022	Technological Approach for a Sustainable Future of Poultry Business	Anirvid Sarkar
August, 2022	Kolkata, India	Indian Poultry Review Annual Conclave 2022	Innovation & Technology in Indian AgriTech Startups	Anirvid Sarkar
			Challenges to the Poultry Industry & Technological Approach for a Sustainable Future	Anirvid Sarkar
		Adisseo Technical Summit, 2023		Sudipto Halдар
February, 2022		World Veterinary Day Seminar in Kolkata organized by EW Nutrition, 2022		Amrita K Dhara
March 2021	Bengaluru, India	Online Discussion Forum: Poultry Feeding Trends by CPDO&TI, Bengaluru	The art of fetching the optimum performance with minimum cost	Sudipto Halдар
November 2020	Hyderabad, India	National webinar on: Entrepreneurial Opportunities in Rural Poultry, at ICAR – Directorate of Poultry Research, Hyderabad	Business plan, Economics and Marketing opportunities in Rural Poultry	Anirvid Sarkar
October 2020	West Bengal, India	National Webinar on: Backyard Poultry: An Opportunistic Rural Venture for Employment and Empowerment at Uttar Banga Krishi Viswavidyalaya	Trends & Opportunities for Marketing and Business economy for Backyard Poultry & Poultry Products	Anirvid Sarkar
January, 2020	Bengaluru, India	Interactive session with Marketing Frontrunners: Natural remedies	Trouble shooting in poultry nutrition	Sudipto Halдар
December, 2019	Kolkata, India	International Conference on Animal Nutrition organized by Animal Nutrition Society of India	Removing antibiotics from poultry diets for a better future: implications and strategies to minimise the subsequent problems	Sudipto Halдар

Presentation

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Year	Venue	Conference/Symposia	Title of presentation	Presenter
September, 2019	Kolkata, India	Winter School organised by Indian Council of Agricultural Research and University of Animal and Fishery Sciences	Basics of Poultry Feed Formulation	Sudipto Halder
August, 2019	Bangkok, Thailand Jakarta, Indonesia	Broiler Feed Quality Conference	Practical solutions for water quality issues	Sudipto Halder
August, 2019	Dhaka, Bangladesh	Technical Seminar organized by AB Vista South Asia	Recent Trends in Poultry Nutrition	Sudipto Halder
February, 2019	Bhubaneswar, India	Indian Poultry Review Annual Conclave	Unconventional raw materials in broiler diets... Do they really reduce costs?	Sudipto Halder
June 2019	Biratnagar & Kathmandu, Nepal	Technical seminar organized by Ravioza Biotech	Role of management in producing antibiotic free chicken	Sudipto Halder Amrita Kumar Dhara
April, 2019	Kolkata, India	Directorate of Research, Extension & Farms, WBUAFS	Viral diseases of poultry with special emphasis on gross pathology, diagnosis, transmission, prevention & control	Amrita Kumar Dhara
July, 2018	San Antonio, Texas	Poultry Science Association Annual Meeting 2018	Evaluation of a new generation intrinsically heat stable phytase at different levels of inclusion on performance and tibia ash contents of broiler chickens	Sudipto Halder
October, 2018	Kuala Lumpur, Malaysia	Distributor Training Program organized by Natural Remedies	Understanding the chicken gut microbiota – an insight into the factors leading to a healthy gut	Sudipto Halder
			Understanding the gut health of poultry – an insight into the factors leading to a healthy gut	Sudipto Halder
November, 2018	Chitwan, Nepal	Technical training program for poultry professionals of Nepal organised by Nepal Veterinary Organization	A good quality protein meal pays dividend: Be critical while selecting the protein source	Sudipto Halder
			Trace mineral nutrition of Poultry	Sudipto Halder
			Quality overview and analysis of raw materials	Aivan Priyadarshi

Presentation

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Year	Venue	Conference/Symposia	Title of presentation	Presenter
May, 2018	Kathmandu, Nepal	Poultry Nutrition and Feed Formulation Workshop: US Soybean Export Council	Basics of Poultry Feed Formulation	Sudipto Halder
September, 2018	Chandigarh, India	Technical Seminar organized by Rossari Biotech Ltd	Critical look at protein meals	Sudipto Halder
September, 2018	Chandigarh, India	Technical Seminar organized by Rossari Biotech Ltd	Gut health drives performance in poultry... An insight into the factors leading to a healthy gut	Sudipto Halder
March, 2017	Bangkok, Thailand	Poultry Innovation Summit Asia 2017 organized by Ceva Sante Animale	Surfactant technology for efficient feed production	Sudipto Halder
May, 2017	Dhaka, Bangladesh	Technical Seminar organized by Guybro Chemicals	Organic Trace minerals – the key to extract the most from your flock	Sudipto Halder
September, 2017	Jakarta, Indonesia Hyderabad, India	Technical Seminar Organised by Novus International	How to use enzymes and their matrix values in poultry feed formulations	Sudipto Halder
October, 2017	New Delhi, India	Biomin Asia Nutrition Forum	Feed converter – the gift from a Healthy gut - An insight into the factors leading to a healthy gut	Sudipto Halder
August, 2017	Bangkok, Thailand	Broiler Feed Quality Conference	Raising broiler chickens in an antibiotic free era...the myths and the myth busters	Sudipto Halder
August, 2017	Bangkok, Thailand	Broiler Feed Quality Conference	Unconventional raw materials in broiler diets – do they really reduce cost?	Sudipto Halder
July, 2016	Pune, India	Technical Symposium organised by Indian Herbs	Gut health drives performance in poultry... An insight into the factors leading to a healthy gut	Sudipto Halder
July, 2016	Biratnagar, Nepal	Technical seminar organised by Asian Feeds	Broiler management in tropical climate	Amrita Kumar Dhara
November, 2016	Agartala, Tripura	Technical seminar organised by Mountt Agro	Broiler management & disease in tropical climate	Amrita Kumar Dhara
August, 2015	Bangkok, Thailand	Pre-Conference Satellite Symposium organised BY DSM at BFQC	Formulating broiler diets for least cost and maximum performance	Sudipto Halder
April, 2015	Biratnagar, Nepal	Technical seminar organised by Asian Feeds	Common broiler problems encounter in tropical climate	Amrita Kumar Dhara
April, 2014	Vienna, Austria	BOKU (University of Natural Resources and Life Sciences)	Effects of a phytogenic feed additive on growth performance, nutrient digestibility, caecal microflora composition and intestinal histomorphology of broilers	Presented in absentia

Participation in Conference/Symposia

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Year	Conference / Symposium	Location
March, 2023	VIV Asia 2023	Bangkok, Thailand
KIPF 2023	Kolkata International Poultry Fair	Kolkata, India
November, 2022	Poultry Knowledge Day – Poultry India	Hyderabad, India
February, 2020	World Veterinary Poultry Association Conference	Bangalore, India
November, 2019	Poultry Knowledge Day – Poultry India	Hyderabad, India
July, 2019	PSA Annual Meeting	Montreal, Canada
July, 2019	Technical Symposium – “Nutrition & Gut Health Management in High Performing Animals”.	Kuala Lumpur, Malaysia
September, 2019	World Veterinary Poultry Association Congress	Bangkok, Thailand
March, 2019	VIV Asia 2019	Bangkok, Thailand
March, 2019	11 th International Poultry Show & Seminar 2019	Dhaka, Bangladesh
November, 2018	Poultry Knowledge Day – Poultry India	Hyderabad, India
October, 2018	World Veterinary Poultry Association Asia Conference	Kuala Lumpur, Malaysia
September, 2018	Poultry Panorama	Phuket, Thailand
July, 2018	Visit to Poultry Research Facility of North Carolina State University	Raleigh, USA
March, 2018	VICTAM Asia 2018	Bangkok, Thailand
November, 2017	Poultry Knowledge Day – Poultry India	Hyderabad, India
September, 2017	Golden Jubilee Celebration of CLAFMA of India	Mumbai, India
August, 2017	Broiler Feed Quality Conference	Bangkok, Thailand
August, 2017	Advanced Feed Mill Management Symposium	Kolkata, India
June, 2017	Asia Pacific Summit on Feed Enzymes in Animal Nutrition	Bangkok, Thailand
June, 2017	AAFAN 2017 (Amino Acid Forum in Animal Nutrition)	Beijing, China
March, 2017	VIV Asia 2017	Bangkok, Thailand

Participation in Conference/Symposia

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Year	Conference / Symposium	Location
December, 2016	Seminar of Arm & Hammer	Hyderabad, India
November, 2016	Poultry Knowledge Day – Poultry India	Hyderabad, India
August, 2016	Broiler Feed Quality Conference	Bangkok, Thailand
August, 2016	Best Technical Service Provider Award – 2016 at Poultry CEO's Forum by Poultry Fortune	Hyderabad, India
July, 2016	PSA Annual Meeting	New Orleans, USA
April, 2016	Visit to "Feed Design Lab"	Stayerhofweg, Netherlands
January, 2016	The International Production & Processing Expo	Atlanta, USA
November, 2015	Poultry Knowledge Day – Poultry India	Hyderabad, India
September 2015	Poultry Feed Quality Conference	Bangkok, Thailand
August, 2015	ResCom Summit	Goa, India
May, 2015	Alltech REBELation	Lexington, USA
July, 2015	Technical Symposium Conducted by MSD Animal Health	Malacca, Malaysia
March, 2015	VIV Asia 2015	Bangkok, Thailand
March, 2015	Novus Feed Technology Seminar	Bangkok, Thailand
November, 2014	Poultry Knowledge Day – Poultry India	Hyderabad, India
October, 2014	The World Nutrition Forum	Munich, Germany.
June, 2014	Technical Symposium Conducted by MSD Animal Health	Penang, Malaysia
April, 2014	International Poultry Broiler Nutritionist's Conference	Queenstown, New Zealand
December, 2013	Alltech South Asia Poultry Nutrition Summit 2013	Colombo, Sri Lanka
March, 2013	VIV Asia 2013	Bangkok, Thailand

Recognition

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