

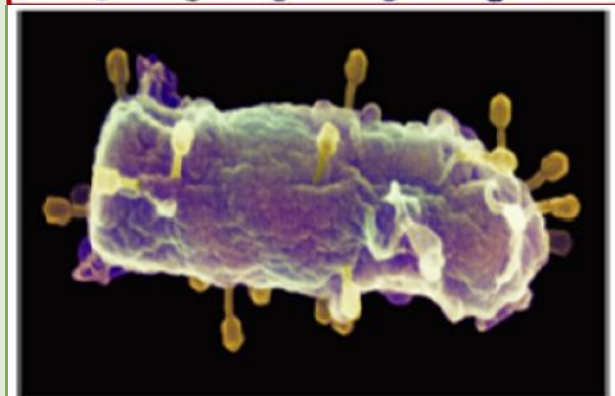
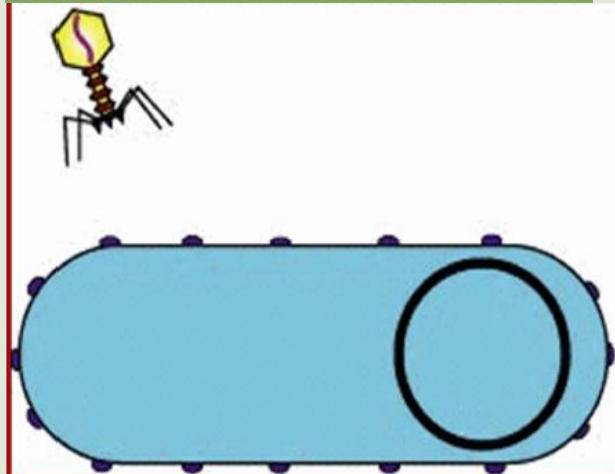
## Letter from the Executive Director, Agribusiness

### Beneficial virus for Poultry Industry:

Salmonella, Staphylococcus, E-Coli and Clostridium are the most common pathogenic bacteria of the poultry industry in Bangladesh. Previously we didn't have the cure of these bacteria responsible for poultry diseases. We only used to control these diseases for a certain period but after a while they came back. ACI has realized this problem for poultry industry and is going to introduce a solution for the first time in Bangladesh. Exolution contains an extraordinary beneficial virus that work as bacteriophage. Bacteriophages kill harmful bacteria. Bacteriophages are the most common biological entities on Earth. Typically bacteriophages consist of an outer protein capsid enclosing genetic material.

Exolution is an extraordinary and exceptional solution which is not an anti biotics but superbiotics. It makes meat germ free, milk fresh by killing harmful bacteria and contributes to the overall health of the population. Trial report shows use of exolution in a broiler farm of over 50,000 chickens having *Clostridium perfringens* reduce from 95% to 0% by 2-4 weeks which is revolutionary result. Similar trial on broiler farms having 40% Salmonella spp. showed a reduction to 0% by the end of 2 weeks which is amazing. Exolution virus works in 5 stages to kill the bacteria namely absorption, penetration, transition, morphogenesis and cell

lysis. It is the best action against harmful bacteria so far leaving the host healthy.



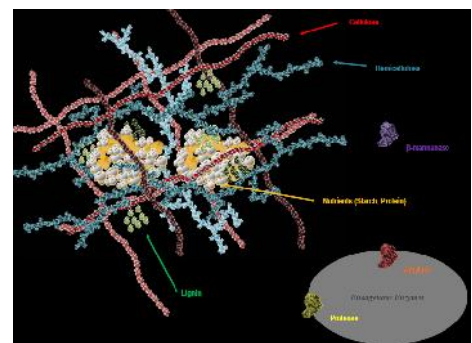
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## Alternative solution by ACI to save feeding cost

Due to drought and other natural calamities corn, soybean meal, wheat and barley which are the major components for poultry feed production have declined remarkably leading to higher market price which resulted in higher cost for poultry farming. We have been searching for an alternative solution of raw material instead of corn and found **CTCZYME**. CTCZYME is the 1<sup>st</sup> developed mannan endo-1, 4-β-mannosidase (EC 3.2.1.78, β-mannanase) product, fermented by *Bacillus subtilis* WL-1 which is a patent of CTC Inc. Korea.

CTCZYME is a solution of global crisis which save 100 kcal ME (Metabolic Energy) for broiler and 80 kcal ME (Metabolic Energy) for layer. It removes adverse effect of mannan like glucose absorption, insulin and IGF-1 secretion, Gastric pH and viscosity, Gastric empty, N retention, fat absorption and ME, absorption of glucose and water. Additional benefit of using this product is that it reduces unnecessary immune response, reduces harmful bacteria in intestine and reduces negative effect of mycotoxin.



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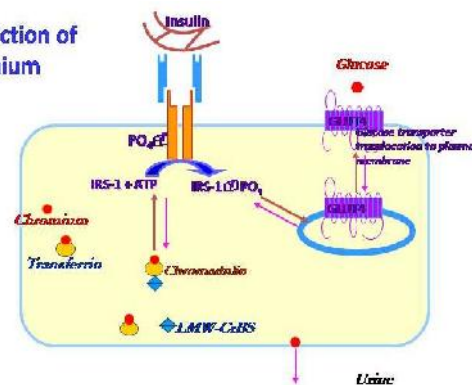
## ACI introduces organic chromium to fight stress in Poultry Industry

Chromium is one of the important trace minerals essential for utilization of glucose at cellular level. It is used to potentiate the action of insulin and bring down the effects of stress. It also influences carbohydrate, protein and lipid metabolism and improves immune function. Lack of chromium causes low production during summer and winter stresses, delays recovery from diseases like VVND, low body weight gain in chicks and growers with low feed efficiency.

We realized this problem in the poultry industry and have discovered a solution to “Fight back stress – bring

back production” by using **KemTRACE Chromium**. KemTRACE Chromium contains highly bioavailable FDA approved organic chromium that manages to help poultry to optimize the overall productivity by fighting against the adverse effects of stress. For broiler it increases body weight and feed efficiency, improves carcass characteristics, maintains blood glucose level, decrease serum total cholesterol, LDL cholesterol, triglycerides and glucose. For layer it improves egg production, egg quality, lowers egg yolk cholesterol-layers. KemTRACE is highly safe and FDA approved.

**Mode of action of Chromium**



**Chromium is essential for regulating Carbohydrate metabolism**

## Pioneer launches new soybean series

DuPont Pioneer is launching a new series of Pioneer brand soybean products developed through its Accelerated Yield Technology process. The new line of soybean products – named the T Series – includes 39 new products and will be introduced this year.

Available in seven maturity groups, T Series products represent the largest number of soybean varieties advanced in a single year by Pioneer.

The next generation T Series soybean products provides growers a total package that helps them gain the most from every acre, maxi-

mize yield potential, agronomic traits and resistance to yield-robbing pests.

The AYT process pinpoints native trait genes for increased defensive trait protection and improved pest resistance packages tailored for specific geographies. AYT employs novel trait integration through a proprietary matrix of gene mapping, molecular breeding technologies and intense local field testing.



## India's rice revolution

Using the method of growing crops called System of Rice (or root) Intensification, a village in India called Darveshpura has been experiencing world record breaking yields of rice and potatoes. The same method can be applied for wheat, tomato, brinjal, etc. This method is being called the most significant development in the past 50 years.

In the SRI method, instead of planting 3 week old rice seedlings in

clumps in waterlogged fields, the farmers of the village nurture only half as many seeds and transplant the young plants one by one when much younger. They also space them at 25 cm intervals in a grid pattern keeping the soil much drier and carefully weed around the plants to allow air to their roots.

SRI appears to offer a long-term, sustainable future for no extra cost. Farmers use less seeds, less water and less

chemical fertilizers. Thus the tremendous ecological costs associated with the initial “green revolution” can be curbed.



## ACI Animal Health participates at the 8<sup>th</sup> International Poultry Show & Seminar 2013

ACI Animal Health participated in the 8<sup>th</sup> International Poultry Show & Seminar 2013 at Bangbandhu International conference Centre, Dhaka, Bangladesh from 28<sup>th</sup> February to 2<sup>nd</sup> March 2013 organized by the World Poultry Science Association, Bangladesh branch.

A large number of scientists, specialists, practitioners, consultants, breeders, farmers, entrepreneurs and traders from home & abroad participated in this pro-

gramme. This magnificent event had two major components: **Poultry show & Seminar.**

ACI was the Silver Sponsor of the seminar.

The poultry show & seminar was inaugurated by the chief guest, Mrs. Matia Chowdhury, Minister of Agriculture & special guest, Md. Abdul Latif Biswas, Minister of Fisheries & Livestock. Both the ministers visited the ACI Animal Health stall & surveyed the Robot Vaccination Machine & all other Ani-

mal Health products. From the very first day lot of visitors from different companies & background came to ACI stall and enjoyed our hospitality.



## ACI Motors: Supply of Sonalika Tractors to Biman

ACI Motors have successfully supplied 8 units Sonalika Tractor at Biman Bangladesh Ltd. through institutional sales. These tractors will be used for carrying baggage trolleys at the apron area of Bangladesh Biman. ACI Motors' Sonalika Tractor is already being used most proficiently in aviation industry at NOVO Air and Regent Airways. This supply will be a major footstep for Sonalika in being the most preferred brand in aviation industry.



## Recruitment of new field force for fertilizer promotion

ACI Fertilizer has appointed 100 temporary people worked as Field Supervisor from January 2013 to promote the new technology products specially – Excel Gold, Bioferti & Organic Fertilizer. ACI Fertilizer organized training program for the FS in three differ-

ent places - Rajshahi, Jessore & Rangpur in February 2013. 61 (Sixty One) Field Supervisors were trained up in the training program and 40 (Forty) will be trained up in March 2013. They have been appointed at the top 100 potential customers point. They

trained up on product knowledge and their working procedure. The customers are very motivated to get the well trained up promotional people.



## Field Day Events & Co-operation of IFC in Hybrid Vegetables



Adoption of the new variety could boost cost-effective production and income of the farmers thus improving food security. With this view, SouthAsia Enterprise Development Facility (SEDF), managed by IFC, in partnership with the UKAID and the Norwegian Agency for Development Co-operation is working with ACI Seed by helping financial product development and business promotion to-

wards demonstrations during field days.

In February, 2013 ACI Seed has arranged 8 field days on 5 hybrid vegetables in 5 crops in involving 1425 farmers in 8 districts. The varieties were Marshal Super, Snow Star, Godagari Super, Sweet Gold and Biddut. Horticultural performances of these varieties were demonstrated very well for several economic traits together in

various agro-environments and cropping patterns of the country. As for promotional perception, the field day on Tomato variety “Godagari Super” at Dumuria, Khulna was the biggest in terms of number of farmers attended. Of the 8 field days 6 were arranged in cooperation with IFC.

### Field Day Programme on Hybrid Tomato: Alankar at Boktaboli, Narayongonj



ACI Seed had arranged a field day programme on Hybrid Tomato: Alankar at Boktaboli, Narayongonj. The crop was found excellent by the farmers, dealers and retailers. The variety: Alankar was found to be prolific, excellent in fruit weight (avg.: 130gm) and suitable for transportation. The neighboring farmers were also extremely happy to have observed the characteristics of this variety. Moreover, farmers who harvested the tomato, got better market price due to its attractive color, shape and size. Dealer and retailer showed their eagerness to sell this variety in the coming season.

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**ACI Agribusinesses**  
*Prosperity through Food  
Security*

*ACI Agribusinesses, the leading agriculture integrator in Bangladesh, is dedicated to gaining prosperity of Bangladesh through food security. ACI Agribusinesses offers complete solutions to farmers and also educates them about the technical know-how.*

<http://www.aci-bd.com>