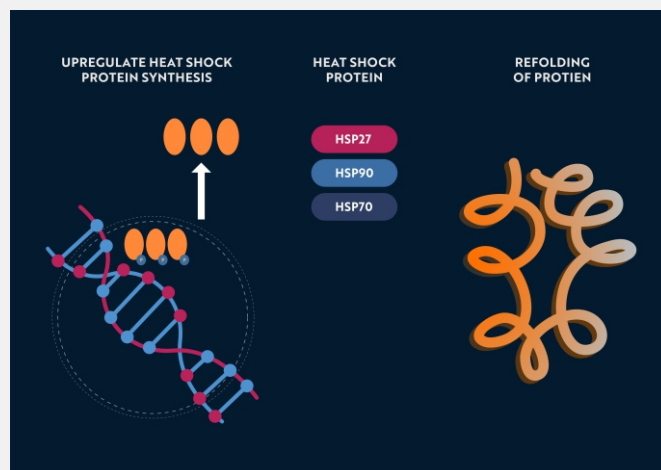
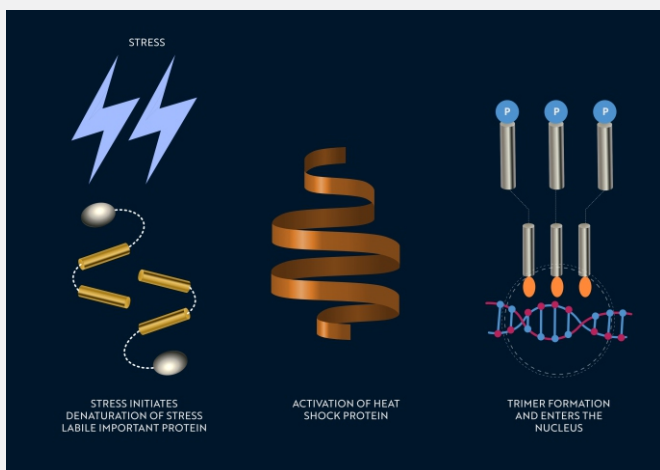




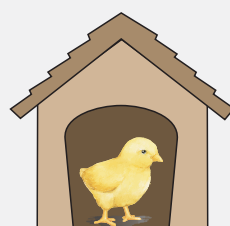
## Heat shock protein and omic study

Worldwide, the effect of climatic change has become a great challenge in poultry production. There are so many extrinsic methods undertaken by farm managers to subside heat stress. Even birds try to relieve themselves from heat stress by intrinsically producing heat shock protein (HSP) helping in protecting stressed cells and stabilization of the internal environment. During heat stress synthesis of most proteins is hampered, but a group of highly conserved proteins known as heat shock proteins is rapidly produced (Al-Aqil and Zulkifli, 2009).



### Omics Study proves less expression of HSP 70 in farm trial.

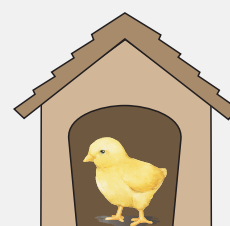
Recent nutrigenomics study conducted in Bentoli's research facility proved that treatment group supplementation with Metostim™ had low expression of heat shock protein 70 (HSP70) compared to another group supplemented with another product claiming similar benefits in chicks. Lower expression of HSP70 is the indicator of lower level of stress in the flock supplemented with Metostim™



**Metostim™ group**

**HSP70**

4.09 NG/ML



**Competitor group**

**HSP70**

9.12 NG/ML

45%

LESS EXPRESSION IN  
**METOSTIM™** GROUP

## Metostim™

Unique metabolic stimulant & growth enhancer

**BETTER FEED, BETTER FOOD.®**

[www.bentoli.com](http://www.bentoli.com)

### Featured Solution & Benefits

Metostim™ is powered by 18 essential and nonessential amino acids, all important fat soluble and water soluble vitamins, electrolytes, essential trace minerals, vitamin C, betaine hydrochloride, curcumin extract and live gut acting probiotic to offers multiple benefits during stressful early chick stage and growing period of chicken