



- 1. Influence of different levels of omega 3 / omega 6 supplemented diets on growth performance, carcass quality, lipids profile and efficiency of immunity in broilers**
 - Difference in omega 3 / omega 6 ratio in broiler diets
 - Effect on growth
 - Effect on lipids profile in carcass
 - Effect on immunity
- 2. Using probiotics and / or prebiotics to improve nutrient utilization on the performances and to enhance immunity in poultry.**
 - Probiotics
 - prebiotics
 - effect on nutrient utilization
 - effect on growth
 - effect on immunity
- 3. Dietary impact on egg quality**
 - Diet impact on egg grade
 - Egg weight
 - Egg problems
- 4. Aflatoxins in feeds and their hazard on poultry performance and residues in its products.**
 - Aflatoxin
 - Hazard effect on growth and immunity
 - Toxin residues in egg or meat
- 5. The value of dietary antioxidants supplementation in broiler performances raised under heat stress and / or health problem.**
 - Antioxidants
 - Effect on growth
 - Effect on immunity
 - Effect on ameliorating different stresses

6. Effect of dietary energy / protein ratio on broilers performances – raised under heat stress

- Calorie / protein ratio on broiler diets
- Effect on growth
- Effect on immunity
- Effect on ameliorating heat stresses

7. Effects of dietary selenium, zinc, Vitamin C supplementation in poultry feed on growth and immune response against microbial infestation and aflatoxin contamination

- Nutrients enhancing immunity as Se, Zn, Vitamin C
- Effects on bone growth
- Immune modulation against diseases and toxicity

8. Influence of nutrition on reproduction

- Effect on puppety age in male and female
- Fertility
- pregnancy stages requirements
- health of fetus and mother

9. The value of dietary B vitamins supplementation in ameliorating leg deformities in poultry

- Leg deformities causes
- B vitamin elements affect leg performance
- Slipping tendon in perosis

10. Nutritional risk factors, associated problems and preventive measures of ketosis

- Nutrition of transition cow
- Dry matter intake
- Glucose precursors
- Protected fat
- Choline and methionine
- Betaine
- Mycotoxins
- Hypocalcaemia and fatty liver

11. Factors increasing growth and feed efficiency in Nile tilapia fish

- Energy
- Protein
- Energy protein ratio

- **Amino acids**
- **Crude fat**
- **Fatty acids**

12. Nutrition and immunity in Nile tilapia fish

- **Amino acids**
- **Fatty acids**
- **Omega 3/omega 6 ratio**
- **Minerals**
- **Vitamins**

13. Feeds and nutrition of Nile tilapia fish

- **Protein quality, requirement and sources**
- **Oils quality, requirement and sources**
- **Carbohydrate classification and sources**
- **Non starch polysaccharide**