

Quality Protein Need for 21st Century

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Proteins are made up of amino acids like bricks for building, 22 different amino acids are building blocks of proteins in different proportion. Among the amino acids, 10 amino acids are not synthesized in simple stomach animals including human beings therefore; they are called essential or indispensable amino acids. Plant protein sources lacking or limitedly content few important indispensable amino acids like methionine, lysine, tryptophan and threonine but animal protein sources contain balanced amount of these limiting amino acids, that's why simple stomach animal's diets need balance amount of these amino acids on their diets. In most of developing countries, animal protein sources for human consumption are not sufficient, which affecting human nutrition specially children, very young people, and pregnant women. Due to these conditions human population are dwarf, stunting in their growth, also effects on their mental development and pale color in pregnant women in developing countries and also susceptible for many diseases due deficiency of quality protein in their diets, excess eating of carbohydrates, fats and sugar containing foods. For fast growth, feed formulator uses feed ingredients or feed additives which accelerated fast growth, sometimes, this fast growth accumulate fats in meats which will resulted in obesity in human and animals.

Animal production scientists think to how to produce quality animal protein in term of milk, meat, fish and eggs for human consumption in quantity and quality supply to meet the developing countries demand. For the production of good quality animal protein, animal nutrition and feeding play important role, ruminant animals should raised under good quality pasture lands, feed should be balanced all nutrients required for different stages of animals, and management and hygiene of the animals. Whereas, non-ruminant animals and birds (poultry) production, there should be careful while formulating their diets according to stage of production, species, and geographical areas. Some parts of world deficient of specific nutrients in soil, which ultimately affects in protein quality of animal products. Prevention and control of diseases also an important part of animal production, limited use of antibiotics, feed additives, hormones, growth promoters etc. for optimum animal production stage. Modern research should be focus on good quality animal protein production with good quality feeds and fodder for animal feeding and their welfare issues.

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