

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

Online alumni club

College of Veterinary and Animal Sciences

Kerala

### NUTRITION-III

- Father of nutrition- Antoine Lavoisier
- The yeast variety commonly known as “fodder yeast”-*Torulopsis utilis*
- Water content in the body of new bone calf is -80%
- In Van Soest method of feed estimation the ADF comprises of ----cellulose and lignin
- The only true ketogenic amino acid-leucine
- Fat contains -----% carbon-77
- A dietary excess of Tyrosine cause -eye lesions
- Dietary excess of Methionine produces -inhibition of ATP synthesis
- Zinc forms an integral part of enzyme- Carbonic anhydrase
- About 96% of plasma copper is bound to an alpha-2 globulin called- Ceruloplasmin
- Organic acids promotes the absorption of calcium
- Curled toe paralysis is caused by the deficiency of -Riboflavin
- One IU of vitamin A is equivalent to 0.6mcg of beta-carotene
- Vitamin A promotes muco-polysaccharide synthesis by- activating sulphate molecule
- ‘Ito cells’ in the liver is the storage site of -Vitamin E
- Vitamin E is involved in the synthesis of -Ascorbic acid and ubiquinone
- Ascorbic acid was first isolated by-Szent Gyorgi
- A dermin or vitamin H is-Pyridoxine
- Niacin requirements can be compensated with-Tryptophan

- The entire process of citric acid cycle take place in side mitochondria -under aerobic condition
- Branching enzyme in glycogen synthesis is - Glycosyl 4,6 transferase
- Rate limiting step in glycogen synthesis is-addition of activated glycosyl units
- Apart from liver cells which other body tissue is capable of producing glucose-intestinal cells
- “Alkali disease” or “blind staggers” is caused by the toxicity of -Selenium
- Glutathione and insulin contains-Sulfur
- Chromium deficiency may lead to - Impaired glucose tolerance
- Nickel is essential for urease activity of rumen microbes.
- Jerusalem antichoke contains the main reserve carbohydrate- Inulin
- The term “*protein*” is coined by-Mulder
- Who introduced the balance and thermometer in to nutrition studies for the first time?-Antoine Lavoisier
- Pinnaglobulin contains Manganese and hemocyanin contains copper
- Legumes are exceptionally rich in - Calcium
- Germinating Barley contains a starch digesting enzyme called -Diastase
- Skim milk is the feed ingredient which can said to be rich in both- Calcium and Phosphorus
- First accurate respiration calorimeter was constructed by -Rubner
- Starch equivalent system was designed by-Kellner
- According to NRC, the  $ME=DE \times 0.85$
- Physiological fuel values were devised by-Atwater
- Heat increment consists of -Heat of fermentation and Heat of nutrient metabolism
- Feces is the main route of phosphorus excretion in herbivores and urine is in case of carnivores.
- Citrate ,lactate ,pyruvate ,ascorbate etc enhance the absorption of -Iron

- RUMENSIN, MONENSIN modifies rumen fermentation by -promoting propionate producing microbes
- In hibernating animals the RQ is - less than 0.7
- Whole blood contains from 35-45mg % phosphorus
- Glucosyl transferase needed in mucopoly sacharide synthesis depend on- Manganese
- ‘Degnala disease’ is caused by -Selenium toxicity
- Net gain of ATP while one mole of glucose is oxidized completely-36
- Scandinavian feeding system based on barley as the standard is introduced by- Hanssen
- Urea toxicity results when the rumen ammonia level exceeds -80mg/100ml
- Leaves of plants contain galactolipid as the major lipid

**Courtesy:**

Dr. Ajay Kuruvila,  
M.V.Sc. Scholar,  
Division of Physiology,  
Indian Veterinary Research Institute, Bareilly.  
[ajaykuruvila@yahoo.com](mailto:ajaykuruvila@yahoo.com)