SUGGESTED RESEARCH AREAS

These topics are suggestions and list some of the topics covered by submissions in previous years. You are not limited to these topics. Please e-mail your regional contact (listed in your regional section) for questions about additional research topics or youngscientist@alltech.com for approval of your topic if it is not captured in the list below.

Feeding Programs and Nutrition
Includes but is not limited to ruminants, poultry, pigs, equine, pets, aquaculture, cats, dogs, ostrich and game birds.

- organic trace minerals (e.g. selenium, zinc, bioplexxed metals)
- yeast products and animal health and nutrition
- probiotics, glucans, vitamins, nitrogen, fat sources, enzymes, mannan-oligosaccharides, fishmeal replacements, immunestimulants
- algae
- profitability
- feeding for healthy gut function, gastrointestinal (GI) health and integrity
- live yeast cultures and effect on animal performance
- alternatives to antibiotic growth promotants
- non-protein nitrogen sources for ruminants
- essential and functional nutrients for diets in young animals (nucleotides, amino acids, peptides)
- novel substrates for animal feeds
- improving nutritious value of fibrous feeds
- achieving well-balanced microflora in the gastrointestinal tract and the cecum of horses to extract the maximum nutrients from feed
- optimising rumen efficiency and maintaining animal health.

Animal Health Issues

- natural feed additives and mycotoxins
- the growing mycotoxin problem in the feed industry
- intestinal health
- mastitis, immune function, toxicosis, lameness, aflatoxins
- feeding patterns
- fertility issues
- investigations related to the health and diets of cats, ostrich, dogs, sheep, game birds.

Feed Handling

- natural biological silage inoculants
- effects of mineral nutrition on mineral excretion and potential impact on the environment.

Zoonoses and Food Safety

- salmonella, campylobacter and general intestinal diseases.

Diseases

- E. coli, ileitis, circovirus, PRRS.

Environmental issues
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Environmental issues
• agriculture practices
• environmental emissions
• phosphorus - nutrition and excretion
• Cu and Zn excretion
• pollution
• water
• innovative use of byproducts
• economic analyses.

Economics and agriculture issues

• impact of plant and animal diseases on profitability.

Traceability

• why is traceability such an important issue for the consumer today?
• contaminants in the food chain e.g. toxins, heavy metals.

Production, Marketing and Sales

• perception of brand value at the consumer level
• local production
• a review of marketing initiatives for promoting the sale of products such as omega three eggs
• consumer understanding and demand for antibiotic free products
• traceability and marketing opportunities for agricultural product sales
• quality control system implementation on farms
• effect of marketing campaigns on the sales of locally grown products.

Plants and Crops

• agronomic issues and natural solutions
• natural bioinsecticides
• forage mineral content across different plant species
• forage quality.

Miscellaneous

• new developments in aquaculture
• solid state fermentation, technology, benefits for animal nutrition
• quality control in the food chain
• intensive farming issues
• bioenergy and fermentation
• food related topics e.g. selenium enriched eggs, omega 3 enrichment, probiotics).

Note: You are not limited to these topics - these are just some examples - think creatively regarding your topic choice.