Record Nr. UNINA9910829162303321

Titolo Amino acids in animal nutrition / / edited by J.P.F. D'Mello

Pubbl/distr/stampa Willingford, Oxon, UK;; Cambridge, MA, USA,: CABI Pub., c2003

ISBN 1-280-83375-0

9786610833757 0-85199-795-3

Edizione [2nd ed.]

Descrizione fisica 1 online resource (526 pages)

Altri autori (Persone) D'MelloJ. P. Felix

Disciplina 636.08/52

Soggetti Amino acids in animal nutrition

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di bibliografia Includes bibliographical references.

Nota di contenuto Contents; Contributors; Preface; Abbreviations; 1 Amino Acids as

Multifunctional Molecules; 2 Amino Acid Analysis of Feeds; 3 Absorption of Amino Acids and Peptides; 4 An Outline of Pathways in Amino Acid Metabolism: 5 Amino Acid Metabolism in Animals: an Overview; 6 Essential to Non-essential Amino Acid Ratios; 7 Adverse Effects of Amino Acids; 8 Methionine-Cystine Relationships in Pig Nutrition; 9 Ideal Dietary Amino Acid Profiles for Pigs; 10 Digestible Amino Acids in Diet Formulation for Pigs; 11 Modelling Amino Acid Metabolism and the Estimation of Amino Acid Requirements 12 Amino Acid Utilization for Reproduction in Sows; 13 Ideal Amino Acid Patterns for Broiler Chicks; 14 Responses of Growing Poultry to Amino Acids; 15 Metabolism and De Novo Synthesis of Amino Acids by Rumen Microbes: 16 Modelling Amino Acid Metabolism in Ruminants: 17 Amino Acid Utilization for Wool Production; 18 Amino Acid Utilization by Growing and Finishing Ruminants; 19 Mammary Uptake and Metabolism of Amino Acids by Lactating Ruminants; 20 Effects of Amino Acids on Milk Production; 21 Predicting Dietary Amino Acid

Adequacy for Ruminants
22 Canine and Feline Amino Acid Requirements for Different
Physiological Functions; 23 Amino Acid Requirements of Finfish and
Crustaceans; 24 Crystalline Amino Acids and Nitrogen Emission; 25
Economic Assessment of Amino Acid Responses in Growing Poultry; 26

Conclusions: Index

Sommario/riassunto

Amino acid metabolism and nutrition of farm animals continues to be an active area of research. Fully updated, this second edition discusses the nutrition of a wider range of species, including companion animals. There are species-specific chapters on pigs, poultry, ruminants and companion animals.