

Diego Mario David L. Navarro

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Education

University of Illinois at Urbana-Champaign, Urbana, IL GPA: 3.65/4.00
Ph.D. in Animal Sciences Expected Graduation: May 2018
Adviser: Dr. Hans H. Stein
Dissertation: Correlation between the physicochemical characteristics and the energetic value of dietary fiber in feed ingredients used in swine diets

University of Illinois at Urbana-Champaign, Urbana, IL GPA: 3.71/4.00
M.S. in Animal Sciences May 2014
Adviser: Dr. Hans H. Stein
Thesis: Amino acid digestibility and concentration of energy in processed soybean and rapeseed products fed to pigs

University of the Philippines, Los Baños, Philippines
B.S. in Agriculture April 2012
Major: Animal Sciences, Emphasis in Swine Production
Thesis: Effects of porcine peptone on the production performance of weanling pigs

Professional Experience

University of Illinois at Urbana-Champaign, Urbana, IL August 2012-Present
Graduate Research Assistant

- Conduct research trials (feed ingredient evaluation, ileal and total tract digestibility)
- Develop proficiency in proximate analysis, bomb calorimetry, acid hydrolyzed ether extraction, Kjeldahl N procedure, and total dietary fiber analysis
- Refine skills in data analysis and interpretation
- Collaborate with research conducted by fellow research assistants
- Prepare research reports and manuscripts, present research results

AgriSpecialist, Inc., Sta. Rosa City, Philippines June 2010-August 2012
Technical Service Trainee

- Received training in applied nutrition, diet formulation, technical sales, and marketing
- Assisted in customer farm visits and product orientation seminars

APPCO Philippines, Makati City, Philippines October 2009-January 2010
Marketing Executive and Management Trainee

- Raised funds for the United Nations Children's Fund (UNICEF) and the World Wildlife Fund (WWF)

Leadership

Team Mode Productions, Los Baños, Philippines September 2011-August 2012
Co-Founder

- Identified and developed qualities of entrepreneurs venturing into events organizing
- Conducted fundraising activities

Teen Explore Adventure, Makati City, Philippines May 2009-March 2012

Facilitator

- Facilitated leadership seminars and strengthened skills in public speaking

Skills and International Experience

Tallinn, Estonia

August 2017

- Presented at the 68th Annual Meeting of the EAAP

Manhattan, Kansas

June 2017

- Completed the IGP Feed Manufacturing Short Course at the IGP Institute of Kansas State University

Copenhagen, Denmark

August 2014

- Presented at the 65th Annual Meeting of the EAAP

Urbana, Illinois

May 2014

- Completed the Transport Quality Assurance™ program of the National Pork Board

Viborg, Denmark

June 2013

- Completed a two-week Carbohydrate Metabolism Short Course at Aarhus University conducted by Drs. Hans Stein, Knud Erik Bach Knudsen, and Helle Lærke

Publications

Navarro, D. M. D. L., E. M. A. M. Bruininx, L. de Jong, and H. H. Stein. 2018. Effects of physicochemical characteristics of feed ingredients on concentration of digestible and metabolizable energy and apparent total tract digestibility of dry matter and nutrients by growing pigs. *J. Anim. Sci.* Submitted.

Navarro, D. M. D. L., J. K. Mathai, N. W. Jaworski, and H. H. Stein. 2018. Amino acid digestibility in six sources of meat and bone meal, blood meal, and soybean meal fed to growing pigs. *Can. J. Anim. Sci.* Submitted.

Navarro, D. M. D. L., E. M. A. M. Bruininx, L. de Jong, and H. H. Stein. 2018. The contribution of digestible and metabolizable energy from high fiber dietary ingredients is not affected by inclusion rate in mixed diets fed to growing pigs. *J. Anim. Sci.* Submitted.

Liu, Y., C. D. Espinosa, J. J. Abelilla, G. A. Casas, L. V. Lagos, S. A. Lee, W. B. Kwon, J. K. Mathai, **D. M. D. L. Navarro,** N. W. Jaworski, and H. H. Stein. 2018. Non-antibiotic feed additives in diets for pigs. *Anim. Nutr.* In press.

Navarro, D. M. D. L., E. M. A. M. Bruininx, L. de Jong, and H. H. Stein. 2018. Analysis for low-molecular weight carbohydrates are needed to account for all energy contributing nutrients in some feed ingredients, but physical characteristics do not predict in vitro digestibility of dry matter. *J. Anim. Sci.* In press.

Navarro, D. M. D. L., Y. Liu, T. S. Bruun, and H. H. Stein. 2017. Amino acid digestibility by weanling pigs of processed ingredients originating from soybeans, 00-rape-seeds, or a fermented mixture of plant ingredients. *J. Anim. Sci.* 95:2658-2669.

Curry, S. M., **D. M. D. L. Navarro**, F. N. Almeida, J. A. S. Almeida, and H. H. Stein. 2014. Amino acid digestibility in low-fat distillers dried grains with solubles fed to growing pigs. *J. Anim. Sci. Biotechnol.* 5:27.

Abstracts

Navarro, D. M. D. L., E. M. A. M. Bruininx, L. de Jong, and H. H. Stein. 2017. Effects of physicochemical characteristics on *in vitro* and *in vivo* nutrient digestibility in pigs. Book of Abstracts of the 68th Annual Meeting of the European Federation of Animal Science. 23:414 (Abstr.)

Navarro, D. M. D. L., E. M. A. M. Bruininx, L. de Jong, and H. H. Stein. 2017. Chemical composition and physicochemical characteristics of feed ingredients and effects on *in vitro* ileal and total tract digestibility of dry matter. *J. Anim. Sci.* 95(Suppl. 5):89-90. (Abstr.)

Navarro, D. M. D. L., E. M. A. M. Bruininx, L. de Jong, and H. H. Stein. 2017. Effects of physicochemical characteristics of feed ingredients on total tract digestibility of dry matter, energy, fiber, and protein by growing pigs. *J. Anim. Sci.* 95(Suppl. 5):90. (Abstr.)

Navarro, D. M. D. L., N. W. Jaworski, and H. H. Stein. 2016. Amino acid digestibility in six sources of meat and bone meal fed to growing pigs. *J. Anim. Sci.* 94(Suppl. 2):105 (Abstr.)

Navarro, D. M. D. L., Y. Liu, T. S. Bruun, and H. H. Stein. 2015. Digestibility of energy and concentrations of digestible and metabolizable energy in processed soybean and rapeseed products fed to growing pigs. *J. Anim. Sci.* 93(Suppl. 2):60 (Abstr.)

Navarro, D. M. D. L., Y. Liu, T. S. Bruun, and H. H. Stein. 2014. Amino acid digestibility and energy concentration in processed soybean and rapeseed products fed to weanling pigs. Book of Abstracts of the 65th Annual Meeting of the European Federation of Animal Science. 20:416 (Abstr.)

Navarro, D. M. D. L., Y. Liu, T. S. Bruun, and H. H. Stein. 2014. Amino acid digestibility in processed soybean products and rapeseed products fed to weanling pigs. *J. Anim. Sci.* 92(E-Suppl. 2):221 (Abstr.)

Kil, D. Y., J. W. Lee, **D. M. D. L. Navarro**, and H. H. Stein. 2013. Energy concentrations in distillers dried grains with solubles containing different fat concentrations and the effect of corn oil addition on energy concentrations in diets fed to growing pigs. *J. Anim. Sci.* 91(E-Suppl. 2):582-583 (Abstr.)

Curry, S., **Navarro, D.**, Almeida, F., and H. Stein. 2013. Amino acid digestibility by growing pigs in distillers dried grains with solubles with conventional, medium, or low concentrations of fat. *J. Anim. Sci.* 91(Suppl. 2):102-103 (Abstr.)

Conference Proceedings

Abelilla, J. J., **D. M. D. L. Navarro**, and H. H. Stein. 2017. Of fiber, carbohydrases, and pigs. Proc. Midwest Swine Nutr. Conf., Indianapolis, IN. p. 9-15.

Liu, Y., C. D. Espinosa, J. J. Abelilla, G. A. Casas, L. V. Lagos, S. A. Lee, W. B. Kwon, J. K. Mathai, **D. M. D. L. Navarro**, N. W. Jaworski, and H. H. Stein. 2016. Non-antibiotic

feed additives in diets for pigs. Proc. Chinese Swine Industry Symposium, Shanghai. p. 263-281.

Professional Associations

The American Society of Animal Science

August 2012-Present

Awards

Wilson G. Pond International Travel Award

July 2017

American Society of Animal Sciences

Animal Sciences Graduate Student Fellowship Award

April 2015

University of Illinois at Urbana-Champaign

AYRE International Research and Learning Fellowship

May 2013

University of Illinois at Urbana-Champaign

Gamma Sigma Delta Honor Society of Agriculture

April 2013

University of Illinois at Urbana-Champaign