CV – Jakob Christoffer Johannsen

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Education

2016-2019	Bsc, Agrobiology, Aarhus University
2019-2021	Msc, Agrobiology, Aarhus University
2022-2025	PhD, Department of Animal and Veterinary Sciences, Aarhus University

Occupation

2021	Research assistant, Department of Animal Science, Aarhus University
2021	Research assistant, Department of Agroecology, Aarhus University
2025-	Postdoc, Department of Animal and Veterinary Sciences and Department of Agroecology, Aarhus University

Profile

My research area is monogastric nutrition and metabolism and I am working with organic as well as conventional pig production systems. My main focus area until now have been the gestating and lactating sows, with emphasis on their nutritional requirements.

Publications

Scientific journal publications

Johannsen, J. C., Sørensen, M. T., Bruun, T. S., and Feyera, T. 2024. Dietary protein requirement of hyper-prolific sows in late gestation. Livestock Science, 290, 105596.

Johannsen, J. C., Sørensen, M. T., Feyera, T., Pelck, J. S., and Bruun, T. S. 2024. Effect of dietary protein for gestating sows on re-establishment of body reserves and impact on reproductive performance. Livestock Science, 286, 105521.

Farmer, C., **Johannsen, J.,** Feeding gilts and sows for maximum mammary development and lactation performance. Canadian Journal of Animal Science, e-first.

Johannsen, J. C., Sørensen, M. T., Theil, P. K., Bruun, T. S., Farmer, C., and Feyera, T. 2024. Optimal protein concentration in diets for sows during the transition period. Journal of Animal Science, 102, skae082.

Farmer, C., **Johannsen, J. C**., Gillies, C., Huber, L. A., and Hovey, R. C. 2024. Parity affects mammary development in late-pregnant swine. Translational Animal Science, 8, txae037.

Johannsen, J. C., Nørgaard, J. V., Theil, P. K., Andersen, H. M.-L., and Kongsted, A. G. 2023. Effects of a high protein starter diet with fermented soybean cake on growth performance of organic pigs weaned outdoor. Livestock Science*,* 267*,* 105141.

Feyera, T., Lashkari, S., **Johannsen, J. C**., Llauradó-Calero, E., Zhe , L., Theil, P. K., and Jensen, S. K. 2023. Supplementation of palmitoleic acid improved piglet growth and reduced body temperature drop upon a cold exposure. Journal of Animal Science*,* 101*,* skad372.

Farmer, C., Gillies, C., **Johannsen, J. C.**, Hovey, R. C., and Huber, L. A. 2023. Dietary supplementation with lysine (protein) in late pregnancy does not enhance mammary development in multiparous sows. Journal of Animal Science, 101, skad385.

Rønn, M., Thorsteinsson, M., **Johannsen, J. C.**, Nørgaard, J. V., Julegaard, I. K., and Nielsen, M. O. 2022. Evaluation of nutritional quality for weaner piglets of a new methanotrophic microbial cell-derived protein feed. Animal Feed Science and Technology, 294, 15498.

Johannsen, J. C., Eskildsen, M., Kongsted, A. G., and Theil, P. K. 2022. Effect of reduced dietary protein on productivity and plasma, urine, and milk metabolites in organic sows during winter conditions. Livestock Science, 263, 105019.

Book chapters

Kongsted, A. G., van der Heide, M. E., Stødkilde, L., **Johannsen, J. C.**, and Eskildsen, M. 2024. Green feed in organic pig farming. In Wiseman, J. (Ed.), Advances in pig nutrition. Burleigh Dodds Science Publishing, Cambridge, UK.

Conference proceedings

Eskildsen, M., Andersen, M. P., **Johannsen, J. C.,** and Theil, P. K. 2022. Daily gain and feed intake of organic piglets fed either biorefined grass protein or soy-bean-meal five weeks prior to weaning. Animal - Science proceedings, 13(2), 167-167.

Johannsen J. C., Feyera T., Hojgaard C. K., Bruun T. S., and Theil P. K. 2022. Dietary protein for transition sow can be reduced without affecting colostrum yield and litter birth weight. 1st International Scientific Meeting on Colostrum, Las Palmas, Spain.

Johannsen, J. C., Sørensen, P. K., Bruun, T. S., Farmer, C. and Feyera, T. 2024. Optimal protein concentration in diets for multiparous sows during the transition period. 75th Annual Meeting of European Federation of Animal Science, Florence, Italy.

Popular communication

Johannsen, J. C. and Bruun, T. S. 2024. Godt og tilstrækkeligt foder i drægtighedsstalden. [In English: Well-composed and sufficient feed for gestating sows]. Presentation at the Danish pig congress, Oct. 23, 2024.

Johannsen, J. C., 2024. Tre års forskning i drægtige søers proteinbehov. [In English: Three years of research in the dietary requirement for protein of gestating sows]. Magasinet Gris (June), 44-45.

Johannsen, J. C., Sørensen, M. T., Feyera, T. and Bruun, T. S., 2024. Protein før faring påvirker dødfødte og søernes mælkeproduktion. [In English: Dietary protein prior to farrowing affects stillbirth and sow milk production]. Magasinet Gris (June), 20-21.

Johannsen, J. C. and Tybirk, P., 2024. Optimal fodring – fra poltemodtagelse til faring. [In English: Optimal feeding - from arrival of gilts until farrowing]. Presentation at So-seminar, Mar. 19, 2024.

Bruun, T. S., Højgaard, C. K., Sørensen, M. T., Pelck, J. S. and **Johannsen, J. C.**, 2023. Effekt af fordøjeligt lysin og protein til drægtige søer. [In English: Effect of dietary lysine and protein for gestating sows]. Report no. 1295. SEGES Innovation, Denmark.

Johannsen, J. C. and Bruun, T. S., 2023. Optimeret fodring af den drægtige so fra løbning til faring. [In English: Optimal feeding of the gestating sow from service to farrowing]. Presentation at DVHS annual meeting, Nov. 25. 2023.

Johannsen, J. C. and Bruun, T. S., 2023. Toptunet fodring af den drægtige so. [In English: Precise feeding of the gestating sow]. Presentation at the Danish pig congress, Oct. 25, 2023.

Selected collaborations

Chantal Farmer, Agriculture and Agri-Food Canada, Sherbrooke R & D Centre, Canada.
During the change in environment in my PhD I spent three months at Sherbrooke R & D Centre under the supervision of Chantal Farmer. During my stay I participated in ongoing animal trials and conduced various analyses in the laboratory. Afterwards, we have regularly collaborated and currently we have four co-authorships in peer-reviewed articles and are currently working on more.

Thomas Sønderby Bruun, SEGES Innovation, Denmark.
During my PhD I have been in close collaboration with Thomas Sønderby Bruun, who is also my co-supervisor. We have had several joint presentations at national congresses and meetings, have three co-authorships in peer-reviewed articles and have been collaborating on project applications.