

Curriculum Vitae Anke Schennink

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Date of birth: 23 July 1980 (Haps, the Netherlands)

Research interests

Milk synthesis and secretion, mammary gland function, metabolic pathways and regulation, genetic variation, complex traits and diseases.

Present employment

2009-present Postdoctoral Scholar, Department of Animal Science, University of California Davis (Davis, USA)

Education

2004-2008 PhD, Wageningen University (Wageningen, the Netherlands)
Dissertation 'Genes involved in bovine milk-fat composition'. Supervisors: prof. J.A.M. van Arendonk, dr. M.H.P.W. Visker, dr. H. Bovenhuis
2003-2004 MSc Bioinformatics, Radboud University (Nijmegen, the Netherlands)
1998-2004 MSc Biology, Radboud University (Nijmegen, the Netherlands)

Publications

In peer-reviewed journals:

A. Schennink, H. Bovenhuis, K.M. Leon-Kloosterziel, J.A.M. van Arendonk, M.H.P.W. Visker (2009) Effect of polymorphisms in the FASN, OLR1, PPARGC1A, PRL, and STAT5A genes on bovine milk-fat composition. *Animal Genetics* 40:909-916

W.M. Stoop, A. Schennink, M.H.P.W. Visker, E. Mullaart, J. A.M. van Arendonk, H. Bovenhuis (2009) Genome-wide scan for bovine milk-fat composition I. QTL for short and medium chain fatty acids. *Journal of Dairy Science* 92:4664-4675

A. Schennink, W.M. Stoop, M.H.P.W. Visker, J.J. van der Poel, H. Bovenhuis, J.A.M. van Arendonk (2009) Short communication: Genome-wide scan for bovine milk fat composition. II. Quantitative trait loci for long-chain fatty acids. *Journal of Dairy Science* 92:4676-4682

J.M.L. Heck, A. Schennink, H.J.F. van Valenberg, M.H.P.W. Visker, H. Bovenhuis, J.A.M. van Arendonk, A.C.M. van Hooijdonk (2009) Effects of milk protein variants on the protein composition of bovine milk. *Journal of Dairy Science* 92:1192-1202

A. Schennink, J.M.L. Heck, H. Bovenhuis, M.H.P.W. Visker, H.J.F. van Valenberg, J.A.M. van Arendonk (2008) Milk-fat unsaturation: genetic parameters and effects of SCD1 and DGAT1. *Journal of Dairy Science* 91:2135-2143

J.M.L. Heck, C. Olieman, A. Schennink, H.J.F. van Valenberg, M.H.P.W. Visker, R.C.R. Meuldijk, A.C.M. van Hooijdonk (2008) Estimation of variation in concentration, phosphorylation and genetic polymorphism of milk proteins using capillary zone electrophoresis. *International Dairy Journal* 18:548-555

A. Schennink, W.M. Stoop, M.H.P.W. Visker, J.M.L. Heck, H. Bovenhuis, J.J. van der Poel, H.J.F. van Valenberg, J.A.M. van Arendonk (2007) DGAT1 underlies large genetic variation in milk-fat composition. *Animal Genetics* 38: 467-473

Conference abstracts and presentations:

A. Schennink, J.F. Trott, J.P. Bond, T.R. Famula, R.C. Hovey (2009) Functional genomics of mammary gland growth in a unique pig model of breast development. *Pig Genome III Conference*, Hinxton, UK

A. Schennink, J.M.L. Heck, H.J.F. van Valenberg, H. Bovenhuis, M.H.P.W. Visker, J.A.M. van Arendonk, A.C.M. van Hooijdonk (2008) Protein variants of β -lactoglobulin, β -casein and κ -casein show large effects on the protein composition of bovine milk. 5th International Symposium on Milk Genomics and Human Health, Sydney, Australia

A. Schennink, W.M. Stoop, H. Bovenhuis, J.M.L. Heck, P.D. Koks, M.H.P.W. Visker, J.A.M. van Arendonk (2008) Quantitative trait loci for milk-fat composition in Dutch Holstein Friesians. *J Anim Sci* 86 E-suppl 2/J Dairy Sci 91 E-suppl 1, p. 611, ADSA-ASAS Joint Annual Meeting, Indianapolis, USA

A. Schennink, W.M. Stoop, M.H.P.W. Visker, P.D. Koks, E. Mullaart, J.A.M. van Arendonk, H. Bovenhuis (2008) Quantitative trait loci for milk-fat composition in Dutch Holstein Friesians. 16th Conference of the International Society for Animal Genetics, Amsterdam, the Netherlands

A. Schennink, J.M.L. Heck, M.H.P.W. Visker, H. Bovenhuis, H.J.F. van Valenberg, M.A.M. Groenen, J.A.M. van Arendonk (2008) DGAT1 and SCD1 underlie large genetic variation in composition and unsaturation of milk-fat. *Genetica Retraite*, Kerkrade, the Netherlands

A. Schennink, M.H.P.W. Visker, H. Bovenhuis, J.J. van der Poel, J.A.M. van Arendonk (2008) Effect of the DGAT1 K232A polymorphism on milk-fat composition of dairy cows. *Plant and Animal Genome XVI Conference*, San Diego, USA

A. Schennink, W.M. Stoop, M.H.P.W. Visker, J.M.L. Heck, H. Bovenhuis, H.J.F. van Valenberg, A.C.M. van Hooijdonk, J.A.M. van Arendonk (2007) Dutch Milk Genomics Initiative reveals large genetic variation in milk-fat composition. 4th International Symposium on Milk Genomics & Human Health, Napa, USA

A. Schennink, W.M. Stoop, M.H.P.W. Visker, J.M.L. Heck, H. Bovenhuis, J.J. van der Poel, H.J.F. van Valenberg, J.A.M. van Arendonk (2007) Milk-fat composition of dairy cows can be improved by use of genetic variation. 58th Annual Meeting of the European Association for Animal Production, No.13, Dublin, Ireland