

**Peer reviewed articles in international journals**

Chalkias H, **Jonas E**, Andersson LS, Jacobson M, de Koning D-J, Lundeheim N, Lindgren G (2017): A genome-wide association study for inverted teats in sows reveals novel candidate genes. *Journal of Applied Genetics*. First online: 1-11

**Jonas E**, de Koning D-J (2016): Goals and Hurdles for a Successful Implementation of Genomic Selection in Breeding Programs for Selected Annual and Perennial Crops. *Biotech. Genet. Eng. Rev.* 16:1-25

**Jonas E**, Li L, Celi P, Soattin M, Martin GB, Thomson P, Raadsma HW (2016): Association of leptin and leptin receptor genes with energy balance, lactation efficiency and leptin serum levels in sheep. *Small Ruminant Research* 136: 78-86

Bjornberg Edvardsson K, **Jonas E**, Marstorp H, Tidaker P (2015): The Role of Biotechnology in Sustainable Agriculture: Views and Perceptions among Key Actors in the Swedish Food Supply Chain. *Sustainability* 7(6): 7512-7529

**Jonas E**, de Koning D-J (2015): Genomic selection needs to be carefully assessed to meet specific requirements in livestock breeding programs (Review). *Frontiers in Genetics* 5, DOI:10.3389/fgene.2015.00049

Gholizadeh M, Mianji GR, Javaremi AN, de Koning DJ, **Jonas E** (2014): Genome-wide association study to detect QTL for twinning rate in Baluchi sheep. *Journal of Genetics* 93(2): 489-493

Graham AS, **Jonas E**, Tanner A, Avila-Stagno J, Bush RD, Chaves AV (2013): Effects of replacing rolled barley grain with wheat dry distillers' grains with solubles in Merino sheep rations. *Acta Agriculturae Scandinavica, Section A – Animal Science*, 63:2, 101-110

**Jonas E**, de Koning DJ (2013): Does genomic selection have a future in plant breeding? *Trends in Biotechnology* 31:9, 497-504

Raadsma HW, **Jonas E**, Fleet MR, Fullard K, Gongora J, Cavanagh CR, Tammen I, Thomson PC (2013): QTL and association analysis for skin and fibre pigmentation in sheep provides evidence of a major causative mutation and epistatic effects. *Animal Genetics* 44(5): 547-559

Charles EKR, **Jonas E**, Chaves AV (2012): Diet preference of lambs offered a choice of concentrate diets containing different proportions of wheat dried distiller's grain with solubles. *Small Ruminant Research* 108: 67-72

Kaewmala K, Uddin M J, Cinar M U, Grosse-Brinkhaus C, **Jonas E**, Tesfaye D, Phatsara C, Tholen E, Looft C, Schellander K (2012): Investigation into Association and Expression of PLCz and COX-2 as Candidate Genes for Boar Sperm Quality and Fertility Reproduction in domestic animals 47(2): 213-223

Cinar M U, Kayan A, Uddin M J, **Jonas E**, Tesfaye D, Phatsara C, Ponsuksili S, Wimmers K, Tholen E, Looft C, Juengst H, Schellander K (2012): Association and expression quantitative trait loci (eQTL) analysis of porcine AMBP, GC and PPP1R3B genes with meat quality traits: Molecular biology reports 39 (4): 4809-4821

**Jonas E**, Thomson PC, Hall EJS, McGill D, Lam MK, Raadsma HW (2011): Mapping quantitative trait loci (QTL) in sheep. IV. Analysis of lactation persistency and extended lactation traits in sheep. Genetics Selection Evolution 43:22

Kaewmala K, Uddin MJ, Cinar MU, Große-Brinkhaus C, **Jonas E**, Tesfaye D, Phatsara C, Tholen E, Looft C, Schellander K (2011): Association study and expression analysis of CD9 as candidate gene for boar sperm quality and fertility traits. Animal Reproduction Science 125:170-179

Laenoi W, Uddin MJ, Cinar MU, Grosse-Brinkhaus C, Tesfaye D, **Jonas E**, Scholz AM, Tholen E, Looft C, Wimmers K, Phatsara C, Juengst H, Sauerwein H, Mielenz M, Schellander K (2011): Quantitative trait loci analysis for leg weakness-related traits in a Duroc x Pietrain crossbred population. Genetics Selection Evolution 43:13

Cavanagh CR, **Jonas E**, Hobbs M, Thomson PC, Tammen I, Raadsma HW (2010): Mapping Quantitative Trait Loci (QTL) in Sheep. III. QTL for carcass composition traits derived from CT scans and aligned with a meta-assembly for sheep and cattle carcass QTL. Genetics Selection Evolution 42:36

Grosse-Brinkhaus C, **Jonas E**, Buschbell H, Phatsara C, Tesfaye D, Jüngst H, Looft C, Schellander K, Tholen E. (2010): Epistatic QTL pairs associated with meat quality and carcass composition traits in a porcine Duroc × Pietrain population. Genetics Selection Evolution 42:39

Uddin MJ, Grosse-Brinkhaus C, Cinar MU, **Jonas E**, Tesfaye D, Tholen E, Juengst H, Looft C, Ponsuksili S, Wimmers K, Phatsara C, Schellander K. (2010): Mapping of quantitative trait loci for mycoplasma and tetanus antibodies and interferon-gamma in a porcine F(2) Duroc x Pietrain resource population. Mammalian Genome 21(7-8):409-18

Raadsma HW, **Jonas E**, McGill D, Hobbs M, Lam MK, Thomson PC (2009): Mapping quantitative trait loci (QTL) in sheep. II. Meta-assembly and identification of novel QTL for milk production traits in sheep. *Genetics Selection Evolution* 22:41-45

Tetzlaff S, Chomdej S, **Jonas E**, Ponsuksili S, Murani E, Phatsara C, Schellander K, Wimmers K. (2009): Association of parathyroid hormone-like hormone (PTH LH) and its receptor (PTHr1) with the number of functional and inverted teats in pigs. *Journal of Animal Breeding and Genetics* 126(3):237-41

Tetzlaff S, **Jonas E**, Phatsara C, Murani E, Ponsuksili S, Schellander K, Wimmers K. (2009): Evidence for association of lymphoid enhancer-binding factor-1 (LEF1) with the number of functional and inverted teats in pigs. *Cytogenetic Genome Research* 124(2):139-46

Raadsma HW, Thomson PC, Zenger KR, Cavanagh C, Lam MK, **Jonas E**, Jones M, Attard G, Palmer D, Nicholas FW. (2009): Mapping quantitative trait loci (QTL) in sheep. I. A new male framework linkage map and QTL for growth rate and body weight. *Genetics Selection Evolution* 24: 41-34

Grosse-Brinkhaus C, Phatsara C, Tholen E, Schellander K, **Jonas E** (2009): Finemapping of QTL for meat quality traits on porcine chromosome 1. *Zuchtungskunde* 81(1): 63-68

**Jonas E**, Schreinemachers HJ, Kleinwächter T, Un C, Oltmanns I, Tetzlaff S, Jennen D, Tesfaye D, Ponsuksili S, Murani E, Juengst H, Tholen E, Schellander K, Wimmers K. (2008): QTL for the heritable inverted teat defect in pigs. *Mammalian Genome* 19(2):127-38

Yammuen-Art S, Phatsara C, Ponsuksili S, Wimmers K, Schellander K, **Jonas E** (2008): SNP analysis, genotyping and mapping of the porcine GPCR142 gene (Brief report). *Archiv für Tierzucht* 51(6): 620-621

Ponsuksili S, **Jonas E**, Murani E, Phatsara C, Srikanchai T, Walz C, Schwerin M, Schellander K, Wimmers K (2008): Trait correlated expression combined with expression QTL analysis reveals biological pathways and candidate genes affecting water holding capacity of muscle. *BMC Genomics* 9 (367)

### **Peer reviewed conference proceedings with international coverage**

Jonas E. (2015): Can livestock methods and models be used as a basis to develop genomic selection breeding programs in crops? Gordon Research Seminar on Quantitative Genetics & Genomics. Renaissance Tuscany Il Ciocco in Lucca (Barga) Italy

Jonas E. (2015): Analysis of quantitative traits - lessons I learned - answers I am seek. Gordon Research Conference on Quantitative Genetics & Genomics. Renaissance Tuscany II Ciocco in Lucca (Barga) Italy

**Jonas E**, Chalkias H, Neuhoﬀ C, Lindgren G, de Koning DJ (2014): Studies of the genetic background of a teat defect in pigs in Germany and Sweden. 10<sup>th</sup> World Congress on Genetics applied to Livestock Production in Vancouver, Canada

**Jonas E**, Thomson PC, Raadsma HW (2013): In-silico approach identified polymorphism associated with wool traits in sheep. Proceedings of the Nineteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Napier, New Zealand.

Raadsma HW, **Jonas E**, Thomson PC (2013): Association study verifies a major locus for fleece diameter on oar 25 in sheep. Proceedings of the Nineteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Napier, New Zealand.

Okazaki H, **Jonas E**, Thomson PC, Tammen I (2013): Bovine neuronal ceroid lipofusinosi in Australian Devon cattle. Proceedings of the Nineteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Napier, New Zealand.

**Jonas E**, Webster E, Thomson PC, Raadsma HW (2011): Use of automatic feeder data for activity studies in sheep. Proceedings of the Nineteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Perth, Australia

**Jonas E**, Thomson PC, Raadsma HW (2011): Analysis of udder health in dairy ewes. Proceedings of the Nineteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Perth, Australia

**Jonas E**, Thomson PC, McGill D, Lam MK, Fullart K, Raadsma HW (2009): Predicting energy balance in ewes as a basis for QTL analysis. Proceedings of the Eighteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Barossa Valley, Australia

**Jonas E**, Thomson PC, Fullart K, Cavanagh C, Raadsma HW (2009): Predicting energy balance in growing wethers and estimation of heritability for derived parameters. Proceedings of the Eighteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Barossa Valley, Australia

Raadsma HW, **Jonas E**, Zenger KR, Cavanagh C, Lam MK, Thomson PC (2009): Mapping QTL for early growth and maternal performance in sheep. Proceedings of the Eighteenth Conference, Association for the Advancement of Animal Breeding and Genetics, Barossa Valley, Australia

Phatsara C, **Jonas, E**, Yammuen-Art S, Buschbell H, Testaye D, Ponsuksili S, Tholen E, Juengst H, Schellander K, Wimmers K (2008): Physiological Interactions between the endocrine and immune systems shown in gene analysis in pigs. *Developments in Biologicals* 132: 161-167

Wimmers K, **Jonas, E**, Schreinemachers H. -J, Testaye D, Ponsuksili S, Tholen E, Juengst H, Schellander K, Phatsara C (2008): Verification of chromosomal regions affecting the innate immunity in pigs using linkage mapping. *Developments in Biologicals* 132: 279-286

### **Non peer-reviewed publications with international coverage**

Rydhmer L, **Jonas E** (2016): Oxytocin candidate genes and maternal behaviour of sows. Annual Meeting of the European Association for Animal Production (EAAP).

Rydhmer L, **Jonas E** (2016): Effects of oxytocin genes on maternal behaviour in Swedish sows. Symposium Nordic ISAE Regional Meeting Vingsted, Denmark, 20 – 22 January 2016

Neuditschko M, Von Niederhäusern R, Flury C, Signer-Hasler H, Frischknecht M, Leeb T, **Jonas E**, Khatkar MS, Raadsma HW, Rieder S (2013): A novel method allows accurate identification of key ancestors within populations. Annual Meeting of the European Association for Animal Production (EAAP) in Nantes, France.

Tammen I, Khatkar M, Hobbs M, **Jonas E**, Hayes B, Thomson P, Raadsma HW (2012): Missing homozygous genotypes in SNP chip analysis – artefacts or clues to lethal traits? Proceedings of the 33<sup>th</sup> ISAG conference, Cairns, Australia.

**Jonas E**, Thomson P, Tammen I, Fleet M, Raadsma HW (2012): Association study for pigmentation traits in sheep reveals significant interaction between loci. Abstract at 4th International Conference of Quantitative Genetics (ICQG) in Edinburgh, UK

Charles EKR, Chaves AV, **Jonas E**, O'Hara AS (2011): Diet preference of lambs offered a choice of concentrate diets containing different proportions of wheat dried distiller's grain with soluble. Abstract accepted for ADSA-ASAS annual meeting in New Orleans

O'Hara AS, Chaves AV, **Jonas E**, Tanner A, Palmer D, Bush RD (2011): Effects of replacing rolled barley grain with wheat dried distillers' grains with solubles in Merino sheep rations. Abstract accepted for ADSA-ASAS annual meeting in New Orleans

**Jonas E**, Celi P, Raadsma HW (2011): Genome-wide association study for leptin blood levels in lactating sheep. Abstract at Plant and Animal Genome Conference (PAG) in San Diego, USA

**Jonas E**, Celi P, Li L, Raadsma HW (2010): Effect of leptin blood levels and genotypes on energy balance in dairy ewes. Metabolic Efficiency 2010 Symposium in Melbourne

**Jonas E**, Thomson P, Raadsma HW (2010): Genome-wide association study and fine mapping of QTL on OAR 21 for body weight in sheep. 9th World Congress on Genetics applied to Livestock Production in Leipzig, Germany

Sölkner J, Frkonja A, Raadsma HW, **Jonas E**, Thaller G, Gootwine E, Seroussi E, Fuerst C, Egger-Danner C, Gredler B (2010): Estimation of individual levels of admixture in crossbred populations from SNP chip data: Examples with sheep and cattle populations. Interbull Meeting Riga, 31.5.-3.6. 2010

**Jonas E**, Lam MK, Fullard K, McGill D, Thomson P, Raadsma H (2008): Mapping genes for energy balance profiles throughout lactation in dairy sheep. International Congress of Genetics, Berlin, Germany Abstract: A-065-0002-01955

**Jonas E**, Thomson P, McGill D, Lam MK, Raadsma H (2008): Mapping of Quantitative Trait Loci for lactation persistency traits in ewes. Proceedings of the 31<sup>th</sup> ISAG conference, Amsterdam, Netherlands

**Jonas E**, Chomdej S, Yammuen-Art S, Phatsara C, Schreinemachers H-J, Jennen D, Tesfaye D, Ponsuksili S, Wimmers K, Tholen E, Schellander K (2007): Verification of chromosomal regions affecting the inverted teat development and their derivable candidate genes in pigs. Annual Meeting of the European Association for Animal Production (EAAP) in Dublin, Ireland

## Others

Nicolia A, Lehrman A, **Jonas E**, Forabosco F, Levander F, Röcklingsberg H, Sundström J, Karantininis K, Feng L, Zhu L-H, Rydhmer L, Sandin P, Chatzopoulou S (2014): Shaping our food, an overview of crop and livestock breeding. MistraBiotech booklet

**Jonas E** (2007): Ansätze zur Untersuchung der genetischen Ursachen für den Erbfehler Stülpzitze beim Schwein. Dissertation Rheinische Friedrich-Wilhelms-Universität Bonn, Germany