

Publication list Gabriella Lindgren

Peer-reviewed articles in international scientific journals

55. A potential regulatory region near the *EDN3* gene may control both harness racing performance and coat color variation in horses. Jäderkvist Fegraeus K, Velie BD, Axelsson A, Ang R, Hamilton NA, Andersson L, Meadows JR & **Lindgren G**. *Physiol Rep*, 6 (10), 2018, e13700, <https://doi.org/10.14814/phy2.13700>.
54. Asian horses deepen the MSY phylogeny. Felkel S, Vogl C, Rigler D, Jagannathan V, Leeb T, Fries R, Neuditschko M, Rieder S, Velie B, **Lindgren G**, Rubin CJ, Schlötterer C, Rattei T, Brem G, Wallner B. *Anim Genet*. 2018 Feb;49(1):90-93. doi: 10.1111/age.12635. Epub 2018 Jan 15.
53. Jäderkvist Fegraeus K, Hirschberg I, Árnason T, Andersson L, Velie BD, Andersson LS, **Lindgren G**. To pace or not to pace: a pilot study of four- and five-gaited Icelandic horses homozygous for the *DMRT3* 'Gait Keeper' mutation. *Anim Genet*. 2017 Dec;48(6):694-697. doi: 10.1111/age.12610. Epub 2017 Oct 11.
52. Schaefer RJ, Schubert M, Bailey E, Bannasch DL, Barrey E, Bar-Gal GK, Brem G, Brooks SA, Distl O, Fries R, Finno CJ, Gerber V, Haase B, Jagannathan V, Kalbfleisch T, Leeb T, **Lindgren G**, Lopes MS, Mach N, da Câmara Machado A, MacLeod JN, McCoy A, Metzger J, Penedo C, Polani S, Rieder S, Tammen I, Tetens J, Thaller G, Verini-Supplizi A, Wade CM, Wallner B, Orlando L, Mickelson JR, McCue ME. Developing a 670k genotyping array to tag ~2M SNPs across 24 horse breeds. *BMC Genomics*. 2017 Jul 27;18(1):565. doi: 10.1186/s12864-017-3943-8.
51. Wallner B, Palmieri N, Vogl C, Rigler D, Bozlak E, Druml T, Jagannathan V, Leeb T, Fries R, Tetens J, Thaller G, Metzger J, Distl O, **Lindgren G**, Rubin CJ, Andersson L, Schaefer R, McCue ME, Neuditschko M, Rieder S, Schlötterer C, Brem G. Y Chromosome Uncovers the Recent Oriental Origin of Modern Stallions. *Curr Biol*. 2017 Jul 10;27(13):2029-2035.e5. doi: 10.1016/j.cub.2017.05.086. Epub 2017 Jun 29.
50. Staiger EA, Almén MS, Promerová M, Brooks SA, Cothran EG, Inslund F, Jäderkvist Fegraeus K, **Lindgren G**, Mehrabani Yeganeh H, Mikko S, Vega-Pla JL, Tozaki T, Rubin CJ, Andersson L. The evolutionary history of the *DMRT3* 'Gait keeper' haplotype. *Anim Genet*. 2017, Oct;48(5):551-559, doi: 10.1111/age.12580.
49. Johansson MK, Jäderkvist Fegraeus K, **Lindgren G***, Ekestén B*. The refractive state of the eye in Icelandic horses with the *Silver* mutation. *BMC Vet Res*. 2017 Jun 2;13(1):153. doi: 10.1186/s12917-017-1059-7. Erratum in: *BMC Vet Res*. 2017 Jun 29;13(1):207. ***Equal contribution.**
48. Jäderkvist Fegraeus K, Lawrence C, Petäjistö K, Johansson MK, Wiklund M, Olsson C, Andersson L, Andersson LS, Røed KH, Ihler CF, Strand

E, **Lindgren G***, Velie BD*. Lack of significant associations with early career performance suggest no link between the DMRT3 "Gait Keeper" mutation and precocity in Coldblooded trotters. PLoS One. 2017 May 10;12(5):e0177351. doi: 10.1371/journal.pone.0177351. eCollection 2017. ***Equal contribution.**

47. Chalkias H, Jonas E, Andersson LS, Jacobson M, De Koning DJ, Lundeheim N, **Lindgren G**. Identification of novel candidate genes for the inverted teat defect in sows using a genome-wide marker panel. J Appl Genet. 2017 May;58(2):249-259. doi: 10.1007/s13353-016-0382-1.

46. François L, Jäderkvist Fegraeus K, Eriksson S, Andersson LS, Tesfayonas YG, Viluma A, Imsland F, Buys N, Mikko S, **Lindgren G***, Velie BD*. Conformation Traits and Gaits in the Icelandic Horse are Associated with Genetic Variants in Myostatin (MSTN). J Hered. 2016 Sep;107(5):431-7. doi: 10.1093/jhered/esw031. Epub 2016 May 13. ***Equal contribution.**

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41. Kim Jäderkvist, Lisa Johansson, Minna Mäenpää, Anna Mykkänen, Lisa S. Andersson, Brandon D. Velie, Leif Andersson, Thorvaldur Árnason, **Gabriella Lindgren**. 2015. Different DMRT3 genotypes are best adapted for harness racing and riding in Finnhorses. J Hered. 2015 Nov-Dec;106(6):734-40. doi: 10.1093/jhered/esv062. Epub 2015 Aug 18.

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Gabriella Lindgren. 2015. Prevalence and genetic parameters for cryptorchidism in Swedish-born Icelandic horses. *Livestock Science*, 180 (2015) 1-5, doi:10.1016/j.livsci.2015.06.022.

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37. Kim Jäderkvist, Niina Holm, Freyja Imsland, Thorvaldur Árnason, Leif Andersson, Lisa S. Andersson, **Gabriella Lindgren**. 2015. The importance of the *DMRT3* 'Gait keeper' mutation on riding ability traits and gaits in Standardbred and Icelandic horses". *Livestock Science*, 176 (2015) 33–39.

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35. Jäderkvist K, Andersson LS, Johansson AM, Árnason T, Mikko S, Eriksson S, Andersson L, **Lindgren G**. 2014. The *DMRT3* 'Gait keeper' mutation affects performance of Nordic and Standardbred trotters. *J Anim Sci*. 2014 Oct;92(10):4279-86. doi: 10.2527/jas.2014-7803. Epub 2014 Aug 1.

34. Kristjansson T, Bjornsdottir S, Sigurdsson A, Andersson LS, **Lindgren G**, Helyar SJ, Klonowski AM, Arnason T. The effect of the 'Gait keeper' mutation in the *DMRT3* gene on gaiting ability in Icelandic horses. 2014. *J Anim Breed Genet*. 2014 Dec;131(6):415-25. doi: 10.1111/jbg.12112. Epub 2014 Jul 30.

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32. Lisa S. Andersson, Maria Wilbe, Agnese Viluma, Gus Cothran, Björn Ekesten, Susan Ewart, **Gabriella Lindgren**. 2013. Equine Multiple Congenital Ocular Anomalies and Silver Coat Colour Result from the Pleiotropic Effects of Mutant *PMEL*. *PLoS ONE*. 2013 September 23; 8(9): e75639.doi:10.1371/journal.pone.0075639.

31. Brunberg, E., Gille, S., Mikko, S., **Lindgren, G** & Keeling, L.J. 2013. Icelandic horses with the Silver coat colour show altered behaviour in a test measuring fear reactions, *Applied Animal Behaviour Science*, Volume 146, Issues 1–4, June 2013, Pages 72-78.

30. Claudia Brandariz-Fontes, Jennifer Leonard, Jose Luis Vega-Pla, Niclas Backstrom, **Gabriella Lindgren**, Sebastian Lippold, Ciro Rico. 2013. Y-chromosome analysis in Retuertás horses. *PLoS One*. 2013 May 31;8(5):e64985. doi: 10.1371/journal.pone.0064985.
29. Petersen JL, Mickelson JR, Cothran EG, Andersson LS, Axelsson J, Bailey E, Bannasch D, Binns MM, Borges AS, Brama P, da Câmara Machado A, Distl O, Felicetti M, Fox-Clipsham L, Graves KT, Guérin G, Haase B, Hasegawa T, Hemmann K, Hill EW, Leeb T, **Lindgren G**, Lohi H, Lopes MS, McGivney BA, Mikko S, Orr N, Penedo MC, Piercy RJ, Raekallio M, Rieder S, Røed KH, Silvestrelli M, Swinburne J, Tozaki T, Vaudin M, M Wade C, McCue ME. 2013. Genetic diversity in the modern horse illustrated from genome-wide SNP data. *PLoS One*. 2013;8(1):e54997. doi: 10.1371/journal.pone.0054997.
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Ellegren, H., Förster, M., Godard, S., Horin, P., Ketchum, M., **Lindgren, G.**, McPartlan, H., Mériaux, J-C., Mickelson, J., Millon, L. V., Murray, J., Neau, A., Røed, K., Sandberg, K., Shiue Y-L., Skow, L.C., Stott, M., Swinburne, J., Van Haeringen, H., Van Haeringen, W.A., Zeigle, J. 1999. Report of the International Equine Gene Mapping Workshop: Male Linkage Map. *Animal Genetics* 30: 341-354.

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5. Sheldon BC, Davidson P, and **Lindgren G**. 1999. Mate replacement in experimentally widowed collared flycatchers (*Ficedula albicollis*): determinants and outcomes. *Behavioral Ecology and Sociobiology* 46:141-148.

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2. Ellegren H, **Lindgren G**, Primmer CR, Möller AP. 1997. Fitness loss and germline mutations in barn swallows breeding in Chernobyl. *Nature* 389: 593-596.

1. Breen M, **Lindgren G**, Binns MM, Norman J, Irvin Z, Bell K, Sandberg K, Ellegren H. 1997. Genetical and physical assignments of equine microsatellites - first integration of anchored markers in horse genome mapping. *Mammalian Genome* 8: 267-273.

Additional publications

Proceedings or miniarticles to conferences

5. Jäderkvist Fegraeus, K., Velie, B.D., Meadows, J.R.S., **Lindgren, G**. 2017. Using the unique breeding history of Coldblooded trotters to map genes for athletic performance. *Journal of Equine Veterinary Science* 52, 73. The Equine Science Society (ESS) Meeting, Minneapolis, Minnesota, USA. 170530-170602.

4. K. Jäderkvist, L. Johansson, A. Mykkänen, M. Mäenpää, L.S. Andersson, L. Andersson, T. Árnason, and G. Lindgren. 2015. The DMRT3 “Gait keeper” mutation affects harness racing performance and riding traits in Finnhorses. *Journal of Equine Veterinary Science* 05/2015; 35(5), DOI:10.1016/j.jevs.2015.03.045. Equine Science Society Symposium, University of Florida, St. Pete Beach, Florida, May 26-29, 2015. Kim was awarded for best oral presentation.

3. E. Jonas, H. Chalkias, C. Neuhoff, **G. Lindgren** and D.-J. de Koning. 2014. Studies of the Genetic Background of a Teat Defect in Pigs born in Germany and Sweden. Proceedings of the 10th World Congress of Genetics Applied to Livestock Production (WCGALP), 17-22 August 2014, Vancouver, BC, Canada.

2. S. Mikko, L. Andersson, S. Eriksson, J. Axelsson, and **G. Lindgren**. 2010. Genomic tools and strategies of for studying hereditary conditions in horses. Proceedings of the 9th World Congress on Genetics Applied to Livestock Production. Leipzig, Germany, 1-6 Aug, 2010, <http://www.kongressband.de/wcgalp2010/>. ISBN 978-3-00-031608-1.

1. Grandinson K, Eriksson S, Lindberg E, Mikko S, Broström H, Frey R, Sundquist M, **Lindgren G**. 2006. Genetic analysis of allergic eczema in Icelandic horses. Proceedings of the 57th Annual Meeting of the EAAP, Antalya, Turkey, 2006-09-17 -- 2006-09-20.

Books and book chapters

3. J. Swinburne and **G. Lindgren**. 2013. Book chapter 2: Genetic linkage maps, In: Equine Genomics, Wiley Blackwell. Pages 11-47.

2. Nyman M., Staal J., Eriksson D., Sundström J., Dixelius C., Sitbon F., Stymne S., Karlsson B., Skarin A., Ekbohm B., Kvarnheden A., Adielsson S., Philipsson J., Lundén, A., Carlsson J., Kirschmann H., Kätterer T., Lindelöw Å., Thornström C-G., Hörnell Willebrand M., Sundström I., Lindroos O., Nilsson T., Leino M., Kumm K-I., Rosling A., Andersson M., Cederlund H., Olsson A., Goedkoop W., Norrgren L., Olsson A-C., Bodegård J., Holtenius P., Rohdin E., Engström I., Wörn M., Ericsson U., Lindgren D., **Lindgren G.**, Lundberg D., Collén J., Wibeck V., Asplund T., Mårell A. 2008. Book: Forskarbloggen volym 1.

1. **Lindgren, G**. (2001). Genome Mapping in the Horse. Acta Universitatis Upsaliensis 632 (PhD Thesis).

Open access computer programs or databases

1. HORSEGENE project database, a database that store genotype, phenotype and pedigree information. A project that has received funding from the European Union's Seventh Framework Programme managed by REA- Research Executive Agency [http://ec.europa.eu/research/rea\(FP7/2007-2013\)](http://ec.europa.eu/research/rea(FP7/2007-2013)) under grant agreement n° 606142.

Popular science articles

29. **Gabriella Lindgren**. Nytt redskap för analys av hästens arvsmassa. Framtidens djurhälsa och djurvårlds nyhetsbrev nr 10 (oktober) 2017. <https://www.slu.se/genotypningsarrayhast>

28. **Gabriella Lindgren**. Moderna hästraser härrör från två orientaliska hingstlinjer. Framtidens djurhälsa och djurvälfaerds nyhetsbrev nr 9 (september) 2017. <https://www.slu.se/hingstlinjer>
27. Rosengren MK, Jäderkvist Fegraeus K, Ekestén B, **Lindgren G**, Hur dåligt ser silverfärgade hästar? Nyhetsbrev till Framtidens djurhälsa och djurvälfaerd- forskningsnyheter. Nr 8 (augusti) 2017. <http://www.slu.se/brytningsfelsilverfarg>
26. Rosengren MK, Jäderkvist Fegraeus K, Ekestén B, **Lindgren G**. Hur dåligt ser silverfärgade hästar? Islandshästen nr 4, sid 12-13, 2017.
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24. Jäderkvist Fegraeus, K., **Lindgren, G**., Ihler, C.F. 2017. Travgenet påverkar ulikt hos kalblods- og varmblodstraver. Norsk-svensk hesteforskning, 2017-05-19. <http://www.nhest.no/Nyheter/2017/Mai/Norsk-svensk-hesteforskning-Travgenet-pavirker-ulikt-hos-kaldblods-og-varmblodstraver/>
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12. Lisa Andersson, Þorvaldur Arnasson, Leif Andersson och **Gabriella Lindgren**. 2012. *Genvarianten som gör att islandshästar kan gå i flygande pass*. Tidningen Islandshästen, vol 7 p. 4-7.

11. Lisa S. Andersson, Freyja Imsland, Jeanette Axelsson, Sofia Mikko, Björn Ekesten & **Gabriella Lindgren**. 2012. *Eye defects in silver coloured horses*. Eiðfaxi, Icelandic horse Magazine. December 2012. p. 70-75.

10. Lisa S. Andersson, Jeanette Axelsson, Freyja Imsland, Sofia Mikko, Björn Ekesten & **Gabriella Lindgren**. 2011. Ögondefekter hos hästar med Silveranlag, Tidningen Islandshästen, vol 3 p. 22-24.

9. **Gabriella Lindgren**. 2009. Rapport från SLU's genetiska forskningsprojekt om krumma föl hos shetlandspionny. Tidningen Shetlandspionny, nr 3: 7.

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7. **Lindgren G**, Mikko S., Dalin G. 2008. Avlar du på rätt individ? Med fokus på defekten krumma föl hos shetlandspionny. Tidningen Shetlandspionny nr 4: 42-43.

6. **Lindgren G**. 2008. Lägesrapport: Genetiska studier av sommareksem hos islandshästar. Tidningen Islandshästen, nr 6:16-17.

5. **Lindgren G.** 2008. Evolutionärt bevarade könsskillnader i genuttryck i hjärnan hos primater. Forskarbloggen vol 1 s. 266.
4. **Lindgren G.** 2008. Hur väl kommer resultaten från den medicinska genomforskningen patienterna till nytta? Forskarbloggen vol 1 s. 248.
3. **Lindgren G.** 2008. Härskartekniker. Inblick, SULF Uppsalas nättidning, nr 9: 2.
2. **Lindgren G.** 2006. Kloning av hästar – möjlighet eller begränsning. Mälardalens Varmblodsklubbs medlemstidning. Avelsnummer, April 1-2.
1. **Lindgren G.** 2003. Hästens gener på kartan. In: Miljö och Forskning, nr 2, April, Swedish Research Council for Environment, Agriculture and Spatial Planning (FORMAS).

Contributions to conferences (talks, abstracts and posters)

I received numerous invitations for talks at the following conferences during the last 15 years; Havemeyer Horse Genome Conference, International Society for Animal Genetic conference (ISAG), Plant and Animal Genome Conference (PAG). I always tried to encourage my PhD students or postdocs to give talks instead of myself. I think persons from my group have given at least one talk per year at different conferences, see below for details.

69. Velie, B.D., Jäderkvist Fegraeus, K., Meadows, J.R.S., **Lindgren, G.** Mapping genes that regulate trotting performance using a unique Nordic horse model. The 68th Annual Meeting of the European Federation of Animal Science (EAAP), Tallinn, Estonia. 170828-170901.

68. Jäderkvist Fegraeus, K, Olsson, C., Andersson, L., Ihler, C-F, Strand, E., **Lindgren, G.**, Velie, B.D. Investigation of the association between the *DMRT3* "Gait keeper" mutation and early career performance in Coldblooded trotters. The 36th International Society for Animal Genetics Conference, Dublin, Ireland. 170716-170721.

67. Jäderkvist Fegraeus, K., Velie, B.D., Meadows, J.R.S., Andersson, L., **Lindgren, G.** Using the unique breeding history of Coldblooded trotters to map genes for athletic performance. The Biology of Genomes conference, Cold Spring Harbor, New York, USA. 170509-170513.

66. Björn Ekesten, Maria K Johansson, **Gabriella Lindgren.** Refraction in Icelandic horses and Standardbred trotters. ECVO (European College of Veterinary Ophthalmologists) Congress, Estoril, Portugal 18-21 May 2017.

65. Johansson, M.K., Jäderkvist Fegraeus, K., **Lindgren, G.**, Ekesten, B. The refractive state of the eye in Icelandic horses heterozygous for the Silver mutation. Veterinärkongressen, Uppsala, Sweden, 10-11 Nov, 2016.

64. Liesbeth François, Hanne Hoskens, Huub F.J. Saverkoul, Edwin Tijhaar, Brandon D. Velie, Anneleen Stinckens, **Gabriella Lindgren**, Sarah Blott, Nadine Buys, Bart J. Ducro, Anouk Schurink. Curing the itch: Genome-wide association study using IgE levels from the IBH diagnostic test in 2 Dutch horse populations. EAAP 2016, 67th Annual Meeting of the European Federation of Animal Science, Belfast, UK, 29 Aug – 2 Sept 2016. Page 395.

63. A Schurink, VH da Silva, BD Velie, BW Dibbits, RPMA Crooijmans, L François, A Stinckens, S Blott, N Buys, **G Lindgren**, BJ Ducro. Copy number variations associated with insect bite hypersensitivity in Friesian horses. EAAP 2016, 67th Annual Meeting of the European Federation of Animal Science, Belfast, UK, 29 Aug – 2 Sept 2016. Page 286.

62. Brandon D Velie, Merina Shrestha, Liesbeth François, Anouk Schurink, Anneleen Stinckens, Sarah Blott, Bart J Ducro, Sofia Mikko, Ruth Thomas, Marie Sundqvist, Susanne Eriksson, Nadine Buys, & **Gabriella Lindgren**. A High Density Genome-wide Scan for Genetic Risk Factors of Insect Bite Hypersensitivity (IBH): A Horsegene Project Initiative. Proceedings of the 35th International Conference on Animal Genetics, Salt Lake City, Utah, USA, July 23-27, 2016. Page 156.

61. Kim Jäderkvist Fegraeus, Merina Shrestha, Susanne Eriksson, Anouk Schurink, Bart Ducro, Brandon D. Velie, **Gabriella Lindgren**. Genetic analysis of conformation traits in Icelandic horses. Proceedings of the 35th International Conference on Animal Genetics, Salt Lake City, Utah, USA, July 23-27, 2016. Page 127.

60. Kim Jäderkvist Fegraeus, Brandon D. Velie, Maja Wiklund, Maria Johansson, Jennifer R. S. Meadows, **Gabriella Lindgren**. The evolution of the Coldblooded trotter breed: Where did the speed come from? Society for Molecular Biology and Evolution conference, 3-7 July 2016, Queensland's Gold Coast, Australia. Page 177.
<http://smbe2016.org/assets/SMBE-2016/SMBE2016-Abstracts.pdf>

59. Brandon D. Velie, Kim Jäderkvist, Ove Wattle & **Gabriella Lindgren**. Identification of the locus responsible for polydactyly in miniature Shetland Ponies using whole-genome re-sequencing. Society for Molecular Biology and Evolution Conference, 3-7 July 2016, Queensland's Gold Coast, Australia. Page 92.
<http://smbe2016.org/assets/SMBE-2016/SMBE2016-Abstracts.pdf>

58. Brandon D Velie, Merina Shrestha, Liesbeth François, Anouk Schurink, Anneleen Stinckens, Sarah Blott, Bart J Ducro, Sofia Mikko, Ruth Thomas, Marie Sundqvist, Susanne Eriksson, Nadine Buys, & **Gabriella Lindgren**. A High Density Genome-wide Scan for Genetic Risk Factors of Insect Bite Hypersensitivity (IBH): A Horsegene Project Initiative. 4th International workshop on Equine Skin Allergy, A Dorothy Russel Havemayer Foundation workshop 22-26 of June 2016, Held at Hvanneyri, Iceland. Page 41.

57. Merina Shrestha, Susanne Eriksson, Anouk Schurink, Lisa S. Andersson, Marie Sundquist, Rebecka Frey, Hans Broström, Tomas Bergström, Bart J. Ducro, and **Gabriella Lindgren**. Genome-Wide Association Study of Insect Bite Hypersensitivity in Swedish-Born Icelandic Horses. 4th International workshop on Equine Skin Allergy, A Dorothy Russel Havemayer Foundation workshop 22-26 of June 2016, Held at Hvanneyri, Iceland. T30, page 43.

56. Kim Jäderkvist Fegraeus, Brandon D. Velie, Jennifer R. S. Meadows, **Gabriella Lindgren**. Exploring the molecular basis for athletic performance traits in Coldblooded trotters. International Plant & Animal Genome XXIV Conference, January 9-13, 2016, San Diego, CA, USA. Published on web: <https://pag.confex.com/pag/xxiv/webprogram/Paper20265.html>
Contribution: Abstract and poster presentation.

55. Brandon D. Velie, Liesbeth François, Anouk Schurink, Anneleen Stinckens, Sarah Blott, Carrie Finno, Bart Ducro, Nadine Buys, & **Gabriella Lindgren**. Stronger collaborations between clinical veterinarians and geneticists through an expansion of the Horsegene Database. International Plant & Animal Genome XXIV Conference, January 9-13, 2016, San Diego, CA, USA. Published on web: <https://pag.confex.com/pag/xxiv/webprogram/Paper20754.html>
Contribution: Abstract. Oral presentation by Brandon Velie.

54. L. François, B.D. Velie, K. Jäderkvist Fegraeus, Y.G Tesfayonas, A. Viluma, L.S. Andersson, F. Imstrand, N. Buys, S. Mikko, S. Eriksson, **G. Lindgren**. The role of myostatin on the unique conformation and gaits of the Icelandic horse. International Plant & Animal Genome XXIV Conference, January 9-13, 2016, San Diego, CA, USA. Published on web: <https://pag.confex.com/pag/xxiv/webprogram/Paper20856.html>
Contribution: Abstract. Oral presentation by Liesbeth François.

53. Brandon D Velie, Kim J Fegraeus, Merina Shrestha, Anouk Schurink, Liesbeth François, Anneleen Stinckens, Sarah Blott, Bart Ducro, Nadine Buys, Sofia Mikko, June E Swinburne, Susanne Eriksson, Carl-Johan Rubin, Jennifer Meadows, Leif Andersson, Lisa Andersson, & **Gabriella Lindgren**. Horses: an underutilized animal model. 29th International Mammalian Genome Conference, Yokohama, Japan, Nov 8-11, 2015. Web link: TS-08/P-144: <http://www.imgc2015.jp/abstracts.html#students>
Contribution: Abstract. Oral presentation by Brandon Velie.

52. Kim Jäderkvist, Lisa S Andersson, **Gabriella Lindgren**. The importance of the *DMRT3* mutation on riding traits and gaits in Standardbred and Nordic trotters. The 66th annual meeting of the European Association for Animal Production (EAAP), 31st of August to 4th of September 2015, Warsaw, Poland. eISBN: 978-90-8686-816-2. ISBN: 978-90-8686-269-6.
DOI: <http://dx.doi.org/10.3920/978-90-8686-816-2>. Page 431.
Contribution: Abstract. Oral presentation by Kim Jäderkvist.

51. Brandon D. Velie, Kim Jäderkvist, Ove Wattle & **Gabriella Lindgren**. Identification of the locus responsible for polydactyly in miniature Shetland

Ponies using whole-genome re-sequencing. 11th Dorothy Russel Havemeyer Foundation, International Equine Genome Mapping Workshop, July 22-25, 2015 in Hannover, Germany. Page 25.

Contribution: Abstract. Oral presentation by Brandon Velie.

50. Brandon D. Velie, Merina Shrestha, Sarah Blott, June Swinburne, Susanne Eriksson, Sofia Mikko & **Gabriella Lindgren**. Stopping the itch: A genome-wide association study of insect bite hypersensitivity in Exmoor ponies. 11th Dorothy Russel Havemeyer Foundation, International Equine Genome Mapping Workshop, July 22-25, 2015 in Hannover, Germany. Page 63.

Contribution: Abstract. Oral presentation by Brandon Velie.

49. Brandon D. Velie, Merina Shrestha, Anneleen Stinckens, Carl Wasserman, Sarah Blott, Bart Ducro, Nadine Buys, & **Gabriella Lindgren**. Horsegene Database: An efficient and secure way to store and share phenotypes and genotypes between researchers. 11th Dorothy Russel Havemeyer Foundation, International Equine Genome Mapping Workshop, July 22-25, 2015 in Hannover, Germany. Page 115.

Contribution: Abstract and poster presentation.

48. Merina Shrestha, Susanne Eriksson, Anouk Schurink, Elsa Albertsdóttir, Bart Ducro, **Gabriella Lindgren**. Genetic analysis of conformation traits in Icelandic horses. 11th Dorothy Russel Havemeyer Foundation, International Equine Genome Mapping Workshop, July 22-25, 2015 in Hannover, Germany. Page 113.

Contribution: Abstract and poster presentation.

47. Kim Jäderkvist, Lisa Johansson, Anna Mykkänen, Minna Mäenpää, Lisa S Andersson, Brandon D. Velie, Leif Andersson, Thorvaldur Árnason, **Gabriella Lindgren**. The *DMRT3* 'Gait keeper' mutation affects harness racing performance and riding traits in Finnhorses. 11th Dorothy Russel Havemeyer Foundation, International Equine Genome Mapping Workshop, July 22-25, 2015 in Hannover, Germany. Page 97.

Contribution: Abstract and poster presentation.

46. Merina Shrestha, Susanne Eriksson, Anouk Schurink, Elsa Albertsdóttir, Bart Ducro, **Gabriella Lindgren**. 2014. Genome Wide Association Study of Head morphology and Body length in Icelandic Horses. The Biology of Genomes, Cold Spring Harbor Laboratory, May 6-10, 2014, Cold Spring Harbor, NY, USA, page 299.

Contribution: Abstract and poster presentation.

45. Merina Shrestha, Lisa Andersson, Freddy Fikse, Tomas Bergström, Anouk Schurink, Bart Ducro, Susanne Eriksson and **Gabriella Lindgren**. Genome wide association study of insect bite hypersensitivity in two populations of Icelandic horses. The 64th annual meeting of the European Association for Animal Production (EAAP), 26th to the 30th of August, 2013 in Nantes, France. Page 299.

Contribution: Abstract. Oral presentation by Merina Shrestha.

44. Sofia Mikko, Nima Rafati, Lisa S. Andersson, Gunilla Thyreen, Göran Dalin, John E. Eberth, Ernie Bailey, Leif Andersson, **Gabriella Lindgren**, Carl-Johan Rubin. Identification of the Genetic Basis for Skeletal Atavism in Shetland Ponies. 10th Dorothy Russel Havemeyer Foundation, International Equine Genome Mapping Workshop, July 10-13, 2013 in Furnas, S. Miguel, Azores, Portugal. Page 54.

Contribution: Abstract. Oral presentation by Carl-Johan Rubin.

43. Merina Shrestha, Lisa Andersson, Freddy Fikse, Tomas Bergström, Anouk Schurink, Bart Ducro, Susanne Eriksson and **Gabriella Lindgren**. Genome wide association study of insect bite hypersensitivity (IBH) in two populations of Icelandic horses. 10th Dorothy Russel Havemeyer Foundtion, International Equine Genome Mapping Workshop, July 10-13, 2013 Furnas, S. Miguel, Azores, Portugal. Page 146.

Contribution: Abstract and poster presentation.

42. A. Viluma, L. Andersson, F. Imsland, J. Kotkavuori, S. Eriksson, F. Fikse, S. Mikko, D. I. Våge, **G. Lindgren**. Polymorphisms in *MSTN* and its contribution to athletic performance ability in Nordic Horse breeds. 10th Dorothy Russel Havemeyer Foundtion, International Equine Genome Mapping Workshop, July 10-13, 2013 Furnas, S. Miguel, Azores, Portugal. Page 64.

Contribution: Abstract. Oral presentation by Agnese Viluma.

41. Susanne Eriksson, Kim Jäderkvist, Anne-Marie Dalin, Jeanette Axelsson, **Gabriella Lindgren**. Genetic analysis of cryptorchidism in Swedish born Icelandic horses. 10th Dorothy Russel Havemeyer Foundtion, International Equine Genome Mapping Workshop, July 10-13, 2013 Furnas, S. Miguel, Azores, Portugal. Page 58.

Contribution: Abstract. Oral presentation by Susanne Eriksson.

40. Nima Rafati, Sofia Mikko, Lisa S. Andersson, Gunilla Thyreen, Göran Dalin, John E. Eberth, Ernie Bailey, Leif Andersson, **Gabriella Lindgren**, Carl-Johan Rubin. Identification of the locus causing skeletal atavism in Shetland ponies. Biology of Genomes, May 7-11, Cold Spring Harbor, NY, 2013.

<http://meetings.cshl.edu/meetings/2013/genome13.shtml>. Page 275.

Contribution: Abstract.

39. Lisa S. Andersson, Doreen Schwochow, Carl-Johan Rubin, Thorvaldur Arnason, Jessica L. Petersen, Molly E. McCue, James R. Mickelson, Gus Cothran, Sofia Mikko, **Gabriella Lindgren** and Leif Andersson. A Mutation in a Novel Transcription Factor Affects the Pattern of Locomotion in Horses. 63rd Annual Meeting EAAP, August 27th-31th, 2012, Bratislava, Slovakia. Published on web: <http://www.wageningenacademic.com/Eaap2012-e>.

Contribution: Abstract, poster and oral presentation. PhD student Lisa S. Andersson in my group presented orally. Lisa won the prize for best poster.

38. Claire M. Wade, Cali Willet, Leif Andersson, Ernest Bailey, Matthew Binns, Samantha Brooks, Scott Dindot, Ted Kalbfleisch, Tosso Leeb, **Gabriella Lindgren**, Molly McCue, and Terje Raudsepp. Designing haplotype imputation resource for the equine. International Plant & Animal Genome XX Conference, January 14th-18th, 2012, San Diego, CA, USA. Published on web: <https://pag.confex.com/pag/xx/webprogram/start.html>.

Contribution: Abstract and poster presentation. Oral presentation by Claire Wade.

37. JL Petersen, AK Rendahl, **Equine Genetic Diversity Consortium**, and ME McCue. Identification of Ancestry Informative Markers in the Domestic Horse. International Plant & Animal Genome XX Conference, January 14th-18th, 2012, San Diego, CA, USA. Published on web:

<https://pag.confex.com/pag/xx/webprogram/start.html>.

Contribution: Abstract, poster and oral presentation by Jessica Petersen/Molly McCue. I am part of the **Equine Genetic Diversity Consortium**.

36. Jessica L. Petersen, James R. Mickelson, Lisa S. Andersson, Ernie Bailey, Danika L. Bannasch, Matthew M. Binns, Alexandre Secorun Borges, E. Gus Cothran, Artur da Câmara Machado, Ottmar Distl, Michela Felicetti, Kathryn T. Graves, Gérard Guérin, Telhisa Hasegawa, Bianca Haase, Emmeline W. Hill, Tosso Leeb, Maria Susana Lopes, **Gabriella Lindgren**, Hannes Lohi, M. Cecilia T. Penedo, Richard Piercy, Knut H. Røed, Oliver A. Ryder, Maurizio Silvestrelli, June E. Swinburne, Teruaki Tozaki, Mark Vaudin, Claire M. Wade, Molly M. McCue. The Equine Genetic Diversity Consortium: an international collaboration to describe genetic variation in modern horse breeds. 9th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 27-30, 2011, Oak Ridge Conference Center, Chaska, Minnesota, USA. In: 9th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 16.

Contribution: Abstract, poster and oral presentation by Jessica Petersen.

35. Jessica L. Petersen, James R. Mickelson, **Equine Genetic Diversity Consortium**, Molly M. McCue. Genomic signatures of selection revealed in the modern horse. 9th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 27-30, 2011, Oak Ridge Conference Center, Chaska, Minnesota, USA. In: 9th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 15.

Contribution: Abstract, poster and oral presentation by Molly McCue. I am part of the **Equine Genetic Diversity Consortium**.

34. Jeanette Axelsson, Jennifer Meadows, Lisa Andersson, Ingrid Jacobsson, Knut Roed, Leif Andersson, Sofia Mikko, **Gabriella Lindgren**. A population genetics approach to explore the molecular basis for athletic performance traits in North Swedish trotters. 9th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 27-30, 2011, Oak Ridge Conference Center, Chaska, Minnesota, USA. In: 9th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 17.

Contribution: Abstract, poster and oral presentation. Post-doc Jeanette

Axelsson in my group presented orally.

33. Andersson LS, Swinbune JE, Meadows JR, Eriksson S, Broström H, Tseng CT, Frey R, Sundquist M, Mikko S, **Lindgren G**. Variants in the MHC-II gene cluster influence susceptibility to equine insect bite hypersensitivity. 9th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 27-30, 2011, Oak Ridge Conference Center, Chaska, Minnesota, USA. In: 9th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 37.
Contribution: Abstract and poster.

32. Andersson LS, Schwochow D, Mikko S, **Lindgren G**, Andersson L. Identification of a major locus affecting the pattern of locomotion in horses. 9th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 27-30, 2011, Oak Ridge Conference Center, Chaska, Minnesota, USA. In: 9th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 20.
Contribution: Abstract, poster and oral presentation. PhD student Lisa S. Andersson in my group presented orally.

31. A population genomics approach to explore the molecular basis for athletic performance traits in North Swedish trotters. Jeanette Axelsson, Jennifer Meadows, Lisa Andersson, Hanna Smedstad, Aneta Ringholm, Knut Roed, Leif Andersson, Sofia Mikko, **Gabriella Lindgren**. The CSHL Meeting on The Biology of Genomes, May 11-15, 2010. In: Abstracts of papers presented at the 2010 meeting on the Biology of Genomes, page 27.
Contribution: Abstract and poster.

30. A population genomics approach to explore the molecular basis for athletic performance traits in North Swedish trotters. JEANETTE AXELSSON, LISA ANDERSSON, HANNA SMEDSTAD, INGRID JACOBSSON, ANETA RINGHOLM, KNUT H ROED, LEIF ANDERSSON, SOFIA MIKKO & **GABRIELLA LINDGREN**. Plant and Animal Genome Conference XVIII, San Diego, CA, USA, January 9-13, 2010. <http://www.intl-pag.org/18/18-pag.html>.
Contribution: Abstract.

29. Genome Wide Association Study of Equine Insect Bite Hypersensitivity Lisa S. Andersson, Susanne Eriksson, Hans Broström, Rebecka Frey, Marie Sundquist, Sofia Mikko and **Gabriella Lindgren**. Plant and Animal Genome Conference XVIII, San Diego, CA, USA, January 9-13, 2010. <http://www.intl-pag.org/18/18-pag.html>.
Contribution: Abstract and poster.

28. Genome Wide Association Study of Equine Insect Bite Hypersensitivity. Lisa S. Andersson, Susanne Eriksson, Hans Broström, Rebecka Frey, Marie Sundquist, Sofia Mikko and **Gabriella Lindgren**. 32nd Conference of the International Society for Animal Genetics, Edinburgh, Scotland, 26-30 July, 2010, page 131.
Contribution: Abstract and poster.

27. A population genomics approach to explore the molecular basis for athletic performance traits in North Swedish trotters. Jeanette Axelsson, Jennifer Meadows, Lisa Andersson, Hanna Smedstad, Ingrid Jacobsson, Aneta Ringholm, Knut H Roed, Leif Andersson, Sofia Mikko & **Gabriella Lindgren**. 32nd Conference of the International Society for Animal Genetics, Edinburgh, Scotland, 26-30 July, 2010, page 82.

Contribution: Abstract and poster.

26. Andersson LS, Juras R, Ramsey DT, Eason-Butler J, Ewart S, Cothran G, **Lindgren G**. 2009. Equine Multiple Congenital Ocular Anomalies maps to a 4.9 megabase interval on horse chromosome 6. The CSHL Meeting on The Biology of Genomes, May 5-9, 2009. In: Abstract of papers presented at the 2009 meeting on the Biology of Genomes, page 22.

Contribution: Abstract.

25. Lisa S. Andersson, Gus Cothran, David T. Ramsey, Björn Ekesten, Susan Ewart, **Gabriella Lindgren**. 2009. Equine Multiple Congenital Ocular Anomalies maps to a 421 kb interval on ECA6. 8th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 22-25, 2009, The West Wing at Ickworth, Suffolk, UK. In: 8th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 34.

Contribution: Abstract and PhD student Lisa S. Andersson presented orally. I am senior author.

24. SOFIA MIKKO, JEANETTE AXELSSON, HANNA SMEDSTAD, INGRID JACOBSSON, ANETA RINGHOLM, KNUT H ROED, LEIF ANDERSSON & **GABRIELLA LINDGREN**. 2009. Exploring the molecular basis for athletic performance traits in North Swedish trotters. 8th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 22-25, 2009, The West Wing at Ickworth, Suffolk, UK. In: 8th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 49.

Contribution: Abstract.

23. E. Gus Cothran, Lisa S. Andersson, Rytis Juras, Susan Ewart and **Gabriella Lindgren**. 2009. Search for the primitive haplotype for the Silver Dapple coat color gene in the horse. 8th International Equine Genome Workshop, A Havemeyer Foundation Workshop, July 22-25, 2009, The West Wing at Ickworth, Suffolk, UK. In: 8th Dorothy Russell Havemeyer Foundation International Equine Genome Mapping Workshop, page 47.

Contribution: Abstract.

22. Ekesten B, Andersson LS, **Lindgren G**. 2009. Multiple congenital ocular anomalies in Icelandic horses. European College of Veterinary Ophthalmologists (ECVO) and European Society of Veterinary Ophthalmology (ESVO): European Veterinary Ophthalmology Meeting, Copenhagen, Denmark, June 3-7. *Veterinary Ophthalmology*, 12 (6):383.

Contribution: Abstract.

21. Mickelson J, McCue M, Bannasch D , Penedo C, Bailey E , Binns MM, Distl O, Guerin G, Hasegawa T, Hill E, Leeb T, **Lindgren G**, Roed K, Swinburne J ,

Tozaki T, Vaudin M , Wade C. 2009. EquineSNP50 Beadchip Evaluation Of Diverse Breeds Of Horses. Plant and Animal Genome Conference XVII, San Diego, CA, USA, January 10-14 (Workshop abstract 149), page 17.

Contribution: Abstract.

20. Brunberg E. , Gille S., **Lindgren G.** , Mikko S. , Keeling L. 2008. The influence of coat colour and breeding index on fear reactions in Icelandic horses. 42nd Congress on the International Society for Applied Ethology, Dublin, Ireland, 2008-08-05--2008-08-09. *Proc. of the 42nd Congress on the International Society for Applied Ethology*, s 154.

Contribution: Abstract.

19. Andersson LS, Cothran G, Ewart S, **Lindgren G.** 2008. Mapping the causative mutation for Anterior Segment Dysgenesis in the horse. XX International Congress of Genetics, Berlin, Germany, 12-17 July, page 272.

Contribution: Poster presentation and abstract.

18. **Lindgren G.**, Jacobsson I, Ringholm A, Roed K, Mikko S, Andersson L. 2008. Exploring the molecular basis for morphology and physiology that regulate athletic performance traits in North Swedish trotters. XX International Congress of Genetics, Berlin, Germany, 12-17 July, page 218.

Contribution: Poster presentation and abstract.

17. **Lindgren G.** 2008. Using the horse as a model organism to study gene function. 8th Swedish Bioinformatics Workshop, 28-29 February, EBC, Uppsala, Sweden.

Contribution: Keynote speaker and abstract by Gabriella Lindgren.

16. Andersson LS, Cothran G, Ewart S, **Lindgren G.** 2008. Mapping the causative mutation for Anterior Segment Dysgenesis in the horse. Plant and Animal Genome Conference, San Diego, CA, USA, January 12-16.

Contribution: Poster presentation and abstract. I was invited for oral presentation but sent Lisa Anderson to give the oral presentation.

15. **Lindgren G.**, Jacobsson I, Ringholm A, Roed K, Mikko S, Andersson L. 2007. Exploring the molecular basis for morphology and physiology that regulate athletic performance traits in North Swedish trotters. 21st International Mammalian Genome Conference, Kyoto, Japan, Oct 28-Nov 1.

Contribution: Poster presentation and abstract.

14. **Lindgren G.**, Jacobsson I, Ringholm A, Roed K, Mikko S, Andersson L. 2007. Exploring the molecular basis for morphology and physiology that regulate athletic performance traits in North Swedish trotters. European Society for Evolutionary Biology (ESEB) 11th Congress, Uppsala, Sweden, Aug 20-25.

Contribution: Poster presentation and abstract.

13. Eken H, Ottosson M, Penedo C, **Lindgren G.**, Mikko S. 2007. Splashed White Coat Color in Horses. Havemeyer Meeting Lake Tahoe, Lake Tahoe, USA, 2007-08-16 -- 2007-08-19.

Contribution: Poster presentation and abstract.

12. Grandinson K, Eriksson S, Lindberg E, Mikko S, Broström H, Frey R, Sundquist M, **Lindgren G**. 2006. Genetic analysis of allergic eczema in Icelandic horses. Proc. 57th Annual Meeting of the EAAP, Antalya, Turkey, 2006-09-17 -- 2006-09-20.

Contribution: Poster presentation and abstract.

11. Broström H, Grandinson K, Lindberg L, Eriksson S, Mikko S, Frey R, Sundquist M, **Lindgren G**. 2006. Genetic parameters for allergic dermatitis in Icelandic horses. 21st Annual Congress of the European Society of Veterinary Dermatology and of the European College of Veterinary Dermatology, Lisbon, Portugal, 2006-09-07 -- 2006-09-09. *Veterinary Dermatology*, 17(5): 357.

Contribution: Poster presentation and abstract.

10. Mikko S, Brunberg E, Cothran G, Sandberg K, Watt B, Marks MS, Andersson L, **Lindgren G**. 2006. Linkage mapping of the silver coat color locus in the horse. International Conference on Animal Genetics, Porto Seguro, Brazil, 20-25 Aug.

Contribution: Poster presentation and abstract. Sofia Mikko presented orally. I am senior author.

9. **Lindgren G**, Jacobsson I, Ringholm A, Roed K, Mikko S, Andersson L. 2006. Exploring the molecular basis for morphology and physiology that regulate athletic performance traits in North Swedish trotters. International Conference on Animal Genetics, Porto Seguro, Brazil, 20-25 Aug.

Contribution: Poster presentation and abstract.

8. Mikko S, Brunberg E, Cothran G, Sandberg K, Watt B, Marks MS, Andersson L, **Lindgren G**. 2006. Linkage mapping of the Silver coat color locus in the horse. Human Genome Meeting, Helsinki, Finland, 31 May- June 3.

Contribution: Poster presentation and abstract.

7. Mikko, S, Ussing, A, Andersson, L, **Lindgren, G**. 2005. Mapping of the silver coat color locus in horses. 6th International Equine Genome Mapping Workshop, Dublin, Ireland, July 11-14.

Contribution: Poster presentation and abstract. Sofia Mikko presented orally. I am senior author.

6. **Lindgren G**, Mikko S, Andersson L. 2005. The molecular basis for morphology and physiology related to athletic performance traits in the horse. 6th International Equine Genome Mapping Workshop, Dublin, Ireland, July 11-14.

Contribution: Poster presentation and abstract.

5. Sundquist M, Broström H, Eriksson S, Frey R, Grandinsson K, Mikko M and **Lindgren G**. 2005. Exploring the genetics that regulate susceptibility to equine allergic dermatitis. 6th International Equine Genome Mapping Workshop, Dublin, Ireland, July 11-14.

Contribution: Poster presentation and abstract. Marie Sundquist presented orally. I was invited to speak but suggested Marie to present.

4. **Lindgren G**, Aldridge V, Einarsson A, Hellborg L, Sandberg K, Binns MM, Ellegren H. 2003. Low genetic variability on the Y chromosome of domestic horses. 5th International Equine Gene Mapping Workshop, Pretoria, South Africa, Aug 11-14.

Contribution: Oral presentation and abstract by Gabriella Lindgren.

3. **Lindgren G**, Breen M, Godard S, Bowling A, Murray J, Scavone M, Skow L, Sandberg K, Guerin G, Binns MM, Ellegren H. 2001. Mapping of 13 horse genes by fluorescence in situ hybridisation and somatic cell hybrid mapping. 4th International Equine Gene Mapping Workshop, Brisbane, Australia, July 2-6.

Contribution: Poster presentation and abstract.

2. **Lindgren G**, Swinburne J, Breen M, Mariat D, Sandberg K, Guerin G, Ellegren H, Binns MM. 1999. Physical anchorage and orientation of equine linkage groups by FISH mapping BAC clones containing microsatellite markers. Third International Equine Gene Mapping Workshop, Uppsala, Sweden, June 3-6.

Contribution: Oral presentation by Gabriella Lindgren.

1. **Lindgren G**, Sandberg K, Persson H, Marklund S, Breen M, Sandgren B, Carlstén J, Ellegren H. 1998. A primary male autosomal linkage map of the horse genome. International Conference on Animal Genetics, Auckland, New Zealand, Aug 9-14.

Contribution: Oral presentation "Identification of areas under-represented on the horse genome map and strategies to cover the gaps" by Gabriella Lindgren.