

Pekka Uimari
professor,Handledare för doktorandprogram, Titeln docent
Avdelningen för lantbruksvetenskaper
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Helsinki One Health (HOH)
Animal Science Research
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Anställning

professor

Avdelningen för lantbruksvetenskaper
Helsingfors universitet
Finland
1 sep. 2013 → present

Titeln docent

Avdelningen för lantbruksvetenskaper
Helsingfors universitet
Finland
1 jan. 2010 → present

Helsinki One Health (HOH)

Helsingfors universitet
HELSINGIN YLIOPISTO, Finland
1 jan. 2019 → present

Animal Science Research

Helsingfors universitet
University of Helsinki, Finland
1 aug. 2001 → present

Handledare för doktorandprogram

Doctoral Programme in Clinical Veterinary Medicine
Helsingfors universitet
Finland
1 jan. 2014 → present

Handledare för doktorandprogram

Doctoral Programme in Sustainable Use of Renewable Natural Resources
Helsingfors universitet
Helsinki, Finland
1 jan. 2014 → present

Tutkimuspäällikkö

MTT

Finland

1 nov. 2011 → 31 aug. 2013

Erikoistutkija

MTT

Finland

1 mars 2009 → 31 aug. 2018

Tutkija

Jurilab Ltd

Finland

1 aug. 2002 → 28 feb. 2009

Forskningsoutput

Adipose gene expression profiles in Northern Finncattle, Mirandesa cattle, Yakutian cattle and commercial Holstein cattle

Ruvinskiy, D., Amaral, A., Weldenegodguad, M., Ammosov, I., Honkatukia, M., Lindeberg, H., Peippo, J., Popov, R., Soppela, P., Stammler, F., Uimari, P., Ginja, C., Kantanen, J. & Pokharel, K., 27 sep. 2024, I: Scientific Reports. 14, 1, 14 s., 22216.

Polygenic selection in Finnish Ayrshire cows

Sarviaho, K. J., Uimari, P. & Martikainen, K., 10 sep. 2024, s. 298. 1 s.

Jejunal transcriptomic profiling of carnosine synthesis precursor-related genes and pathways in slow-growing Korat chicken

Promkhun, K., Sinpru, P., Bunnom, R., Molee, W., Kubota, S., Uimari, P. & Molee, A., sep. 2024, I: Poultry Science. 103, 9, 104046.

Signatures of positive selection after the introduction of genomic selection in the Finnish Ayrshire population

Sarviaho, K. J., Uimari, P. & Martikainen, K., 14 mars 2024, I: Journal of Dairy Science. 2024, 7, s. 4822-4832 12 s.

Inheritance of feed intake-based resilience traits and their correlation with production traits in Finnish pig breeds

Kavлак, A. T. & Uimari, P., 1 jan. 2024, I: Journal of Animal Science. 102, 9 s., skae037.

Effect of carnosine synthesis precursors in the diet on jejunal metabolomic profiling and biochemical compounds in slow-growing Korat chicken

Promkhun, K., Suwanvichanee, C., Tanpol, N., Katemala, S., Thumanu, K., Molee, W., Kubota, S., Uimari, P. & Molee, A., dec. 2023, I: Poultry Science. 102, 12, 12 s.

Novel runs of homozygosity islands in the Finnish Ayrshire population

Sarviaho, K. J., Uimari, P. & Martikainen, K., 28 aug. 2023, s. 164. 1 s.

Thigh muscle metabolic response is linked to feed efficiency and meat characteristics in slow-growing chicken

Kaewsatuan, P., Poompramun, C., Kubota, S., Yongsawatdigul, J., Molee, W., Uimari, P. & Molee, A., juli 2023, I: Poultry Science. 102, 7, 11 s.

Estimating inbreeding rate and effective population size in the Finnish Ayrshire population in the era of genomic selection

Sarviaho, K. J., Uimari, P. & Martikainen, K., maj 2023, I: Journal of Animal Breeding and Genetics. 140, 3, s. 343-353 11 s.

Disease detection in pigs based on feeding behaviour traits using machine learning

Kavliak, A. T., Pastell, M. & Uimari, P., feb. 2023, I: Biosystems Engineering. 226, s. 143-143 1 s.

Heritability of the elk hunting traits in the Finnish Jamthund population

Sarviaho, K. J. & Uimari, P., 20 jan. 2023, I: Acta Agriculturae Scandinavica. Section A. Animal Science. 10 s.

Comparative proteomics revealed duodenal metabolic function associated with feed efficiency in slow-growing chicken

Kaewsatuan, P., Poompramun, C., Kubota, S., Yongsawatdigul, J., Molee, W., Uimari, P. & Molee, A., juni 2022, I: Poultry Science. 101, 6, 11 s., 101824.

Single-step genomic evaluation of Russian dairy cattle using internal and external information

Kudinov, A. A., Mäntysaari, E. A., Pitkänen, T. J., Saksa, E. I., Aamand, G. P., Uimari, P. & Strandén, I., maj 2022, I: Journal of Animal Breeding and Genetics. 139, 3, s. 259-270 12 s.

Effect of genomic selection on genetic variability in chromosomal level in the Finnish Ayrshire

Sarviaho, K. J., Uimari, P. & Martikainen, K., 2022, *Proceedings of 12th World Congress on Genetics Applied to Livestock Production (WCGALP)*. Wageningen: Wageningen Academic Publishers, s. 980-983

Identification of copy number variations and candidate genes for reproduction traits in Finnish pig populations

Iso-Touru, T., Uimari, P., Elo, K., Sevón-Aimonen, M.-L. & Sironen, A., 2022, I: Agricultural and Food Science. 31, 3, s. 149-159 11 s.

Estimation of social genetic effects on feeding behaviour and production traits in pigs

Kavliak, A. T., Strandén, E., Lidauer, M. H. & Uimari, P., mars 2021, I: Animal. 15, 3, 8 s., 100168.

Deletion of porcine BOLL is associated with defective acrosomes and subfertility in Yorkshire boars

Noskova, A., Wurmser, C., Crysnanto, D., Sironen, A., Uimari, P., Fries, R., Andersson, M. & Pausch, H., dec. 2020, I: Animal Genetics. 51, 6, s. 945-949 5 s.

Metafounder approach for single-step genomic evaluations of Red Dairy cattle

Kudinov, A. A., Mäntysaari, E. A., Aamand, G. P., Uimari, P. & Strandén, I., juli 2020, I: Journal of Dairy Science. 103, 7, s. 6299-6310 12 s.

Identification of runs of homozygosity affecting female fertility and milk production traits in Finnish Ayrshire cattle

Martikainen, K., Koivula, M. & Uimari, P., 2 mars 2020, I: Scientific Reports. 10, 1, 9 s., 3804.

Estimation of heritability of feeding behaviour traits and their correlation with production traits in Finnish Yorkshire pigs

Kavliak, A. T. & Uimari, P., nov. 2019, I: Journal of Animal Breeding and Genetics. 136, 6, s. 484-494 11 s.

Estimation of intrachromosomal inbreeding depression on female fertility using runs of homozygosity in Finnish Ayrshire cattle

Martikainen, K., Sironen, A. & Uimari, P., dec. 2018, I: Journal of Dairy Science. 101, 12, s. 11097-11107 11 s.

Assessing the genetic differentiation of Holstein cattle herds in the Leningrad region using F_{st} statistics

Smaragdov, M. G., Kudinov, A. A. & Uimari, P., 2018, I: Agricultural and Food Science. 27, 2, s. 96-101 6 s.

Developing a genetic evaluation system for milk traits in Russian black and white dairy cattle

Kudinov, A. A., Juga, J., Mäntysaari, E. A., Strandén, I., Saksa, E. I., Smaragdov, M. G. & Uimari, P., 2018, I: Agricultural and Food Science. 27, 2, s. 85-95 11 s.

The use of runs of homozygosity for intra-chromosomal estimation of inbreeding depression on female fertility in Finnish Ayrshire cattle

Martikainen, K. & Uimari, P., 2018, I: Proceedings of the World Congress on Genetics Applied to Livestock Production. 2018, 423

Estimation of inbreeding depression on female fertility in the Finnish Ayrshire population

Martikainen, K., Tyrisevä, A. M., Matilainen, K., Pösö, J. & Uimari, P., okt. 2017, I: Journal of Animal Breeding and Genetics. 134, 5, s. 383-392 10 s.

Genome-wide SNP data unveils the globalization of domesticated pigs

Yang, B., Cui, L., Perez-Enciso, M., Traspov, A., Crooijmans, R. P. M. A., Zinovieva, N., Schook, L. B., Archibald, A., Gatphayak, K., Knorr, C., Triantafyllidis, A., Alexandri, P., Semiadi, G., Hanotte, O., Dias, D., Dovic, P., Uimari, P., Iacolina, L., Scandura, M. & Groenen, M. A. M. och 2 andra, Huang, L. & Megens, H.-J., 21 sep. 2017, I: Genetics Selection Evolution. 49, 15 s., 71.

Novel harmful recessive haplotypes for reproductive traits in pigs

Haggman, J. & Uimari, P., apr. 2017, I: Journal of Animal Breeding and Genetics. 134, 2, s. 129-135 7 s.

Whole-genome association analysis of pork meat pH revealed three significant regions and several potential genes in Finnish Yorkshire pigs

Verardo, L. L., Sevon-Aimonen, M.-L., Serenius, T., Hietakangas, V. & Uimari, P., 13 feb. 2017, I: BMC Genetics. 18, 15 s., 13.

Lypsykarjan genominen valinta

Juga, J. K., Sillanpää, M. J., Mäntysaari, E. A., Mäki-Tanila, A. V. & Uimari, J. P., 2017, *Maailma muuttuu - muuttuuko maatalous?*. Seppänen, M. & Kymäläinen, H.-R. (red.). 2 red. Helsinki: Unigrafia, s. 220 - 226 7 s.

Upgrading Dairy Cattle Evaluation System in Russian Federation

Kudinov, A. A., Juga, J. K., Uimari, J. P., Mäntysaari, E. A., Strandén, I. J., Plemyashov, K. V., Saksa, E. I. & Smaragdov, M. G., 2017, I: Interbull Bulletin. 51, s. 67-74 8 s.

Heritability of hypothyroidism in the Finnish Hovawart population

Åhlgren, J. K. & Uimari, J. P., 1 juni 2016, I: Acta Veterinaria Scandinavica. 58, 5 s., 39.

A combination of two variants in PRKAG3 is needed for a positive effect on meat quality in pigs

Uimari, P. & Sironen, A., 28 feb. 2014, I: BMC Genetics. 15, 9 s., 29.

Preface

Uimari, P., 2014, I: Agricultural and Food Science. 23, 1, s. 1 1 s.

Reliability of Genomic Selection of Reproduction Traits in Finnish Yorkshire Pig Breed

Uimari, P., Sevon-Aimonen, M.-L. & Serenius, T., 2014, *10th World Congress of Genetics Applied to Livestock Production: Abstracts and Proceedings*. [Vancouver]: World Congress on Genetics Applied to Livestock Production, WCGALP, 3 s.

Ectopic KIT copy number variation underlies impaired migration of primordial germ cells associated with gonadal hypoplasia in cattle (*Bos taurus*)

Venhoranta, H., Pausch, H., Wysocki, M., Szczerbal, I., Hänninen, R., Taponen, J., Uimari, P., Flisikowski, K., Lohi, H., Fries, R., Switonski, M. & Andersson, M., 2013, I: PLoS One. 8, 9, 11 s., e75659.

Evidence for three highly significant QTL for meat quality traits in the Finnish Yorkshire pig breed.

Uimari, P., Sironen, A. & Sevon-Aimonen, M.-L., 2013, I: Journal of Animal Science. 2013, 91, s. 2001-2011

Heritability of sow longevity and lifetime prolificacy in Finnish Yorkshire and Landrace pigs.

Uimari, P. & Sevon-Aimonen, M.-L., 2013, I: Agricultural and Food Science. 22, s. 325-330

L1 insertion within SPEF2 gene is associated with increased litter size in the Finnish Yorkshire population.

Sironen, A., Uimari, P., Iso-Touru, T. & Vilkki, J., 2012, I: Journal of Animal Breeding and Genetics. 129, s. 92-97

Comparison of different DNA extraction methods from hair root follicles to genotype Finnish Landrace boars with the Illumina PorcineSNP60 BeadChip

Sironen, A., Uimari, P. & Vilkki, J., juni 2011, I: *Agricultural and Food Science*. 20, 2, s. 143-150 8 s.

Extent of linkage disequilibrium and effective population size in Finnish Landrace and Finnish Yorkshire pig breeds

Uimari, P. & Tapio, M., mars 2011, I: *Journal of Animal Science*. 89, 3, s. 609-614 6 s.

Whole-genome SNP association analysis of reproduction traits in the Finnish Landrace pig breed.

Uimari, P., Sironen, A. & Sevón-Aimonen, M.-L., 2011, I: *Genetics Selection Evolution*. 43, s. 42

Knobbed acrosome defect is associated with a region containing the genes STK17b and HECW2 on porcine chromosome 15

Sironen, A., Uimari, P., Nagy, S., Paku, S., Andersson, M. & Vilkki, J., 9 dec. 2010, I: *BMC Genomics*. 11, art. 699, 8 s., 699.

Genetic parameters for bone strength, osteochondrosis and meat percentage in Finnish Landrace and Yorkshire pigs

Storskrubb, A., Sevón-Aimonen, M.-L. & Uimari, P., aug. 2010, I: *Animal*. 4, 8, s. 1319-1324 6 s.

Effect of polymorphisms in candidate genes on reproduction traits in Finnish pig populations

Sironen, A. I., Uimari, P., Serenius, T., Mote, B., Rothschild, M. & Vilkki, J., mars 2010, I: *Journal of Animal Science*. 88, 3, s. 821-827 7 s.

Spermine analogue-regulated expression of spermidine/spermine N1-acetyltransferase and its effects on depletion of intracellular polyamine pools in mouse fetal fibroblasts

Uimari, A., Keinänen, T. A., Karppinen, A., Woster, P., Uimari, P., Janne, J. & Alhonen, L., 15 aug. 2009, I: *Biochemical Journal*. 422, s. 101-109 9 s.

Type 2 diabetes whole genome association study in four populations: the DiaGen consortium

Salonen, J. T., Uimari, P., Aalto, J.-M., Pirskanen, M., Kaikkonen, J., Todorova, B., Hyppönen, J., Korhonen, V., Asikainen, J., Devine, C., Tuomainen, T., Luedemann, J., Nauck, M., Kerner, W., Stephens, R., New, J., Ollier, W., Gibson, J., Payton, A. & Horan, M. och 8 andra, Pendleton, N., Mahoney, W., Meyre, D., Deplanque, J., Froguel, P., Luzzatto, O., Yakir, B. & Darvasi, A., sep. 2007, I: *Diabetologia*. 50, s. S40-S40 1 s.

Genome-wide linkage disequilibrium from 100,000 SNPs in the East Finland founder population

Uimari, P., Kontkanen, O., Visscher, P., Pirskanen, M., Fuentes, R. & Salonen, J., juni 2005, I: *Twin Research and Human Genetics*. 8, 3, s. 185-197 13 s.

A novel mechanism for endothelial dysfunction in pregnancy: role of DDAH1 haplotypes in preeclampsia

Akbar, F., Heinonen, S., Pirskanen, M., Uimari, P., Tuomainen, T.-P. & Salonen, J., 2005, I: *Molecular Human Reproduction*. 11, s. 73-77

New paraoxonase 1 polymorphism I102V and the risk of prostate cancer in Finnish men

Marchesani, M., Hakkarainen, A., Tuomainen, T., Kaikkonen, J., Pukkala, E., Uimari, P., Seppala, E., Matikainen, M., Kallioniemi, O., Schleutker, J., Lehtimäki, T. & Salonen, J., 4 juni 2003, I: *Journal of the National Cancer Institute*. 95, 11, s. 812-818 7 s.

Chromosome 19q13 and multiple sclerosis susceptibility in Finland: a linkage and two-stage association study

Reunanen, K., Finnila, S., Laaksonen, M., Hiekkalinna, T., Sumelahti, M., Wikstrom, J., Pastinen, T., Kuokkanen, S., Saarela, J., Uimari, P., Ruutiainen, J., Ilonen, J., Peltonen, L. & Tienari, P., maj 2002, I: *Journal of Neuroimmunology*. 126, 1-2, s. 134-142 9 s., PII S0165-5728(02)00051-6.

Multiple QTL mapping in related plant populations via a pedigree-analysis approach

Bink, M., Uimari, P., Sillanpää, M., Janss, L. & Jansen, R., apr. 2002, I: *Theoretical and Applied Genetics*. 104, 5, s. 751-762 12 s.

Mapping of an immotile short tail sperm defect in the Finnish Yorkshire on porcine Chromosome 16

Sironen, A. I., Andersson, M., Uimari, P. & Vilkki, J., 2002, I: *Mammalian Genome*. 13, s. 45-49 5 s.

Multiple QTL mapping in related plant populations via a pedigree-analysis approach

Bink, M. C. A. M., Uimari, P., Sillanpää, M. J., Janss, L. L. G. & Jansen, R. C., 2002, I: *Theoretical and Applied Genetics*. 104, 5, s. 751-762

Bayesian oligogenic analysis of quantitative and qualitative traits in general pedigrees

Uimari, P. & Sillanpää, M., nov. 2001, I: *Genetic Epidemiology*. 21, 3, s. 224-242 19 s.

Respiratory distress syndrome: evaluation of genetic susceptibility and protection by transmission disequilibrium test

Haataja, R., Marttila, R., Uimari, P., Lofgren, J., Ramet, M. & Hallman, M., sep. 2001, I: *Human Genetics*. 109, 3, s. 351-355 5 s.

Bayesian association mapping for quantitative traits in a mixture of two populations

Sillanpää, M. J., Kilpikari, R., Ripatti, S., Onkamo, P. & Uimari, P., 2001, I: *Genetic Epidemiology*. 21, Suppl. 1, s. S692-S699

Bayesian association mapping for quantitative traits in a mixture of two populations

Sillanpää, M., Kilpikari, R., Ripatti, S., Onkamo, P. & Uimari, P., 2001, I: *Genetic Epidemiology*. 21, s. S692-S699 8 s.

Bayesian oligogenic analysis of quantitative and qualitative traits in general pedigrees

Uimari, P. & Sillanpää, M. J., 2001, I: *Genetic Epidemiology*. 21, 3, s. 224-242

Candidate gene regions and genetic heterogeneity in gluten sensitivity

Holopainen, P., K, M., Uimari, P., Collin, P., Mäki, M. & Partanen, J., 2000, I: *Gut*. 48, 5, s. 696-701 6 s.

The effect of using different culling regimens on genetic response with two-trait, two-stage selection in a nucleus broiler stock

Mehrabani-Yeganeh, H., Gibson, J. & Uimari, P., juli 1999, I: *Poultry Science*. 78, 7, s. 931-936 6 s.

A Bayesian MCMC Approach to Map Disease Genes in Simulated GAW11 data

Uimari, P., Pitkäniemi, J. M. & Onkamo, P., 1999, I: *Genetic Epidemiology*. 17, Suppl. 1, s. S743-S748 8 s.

Mapping quantitative trait loci for milk production and health of dairy cattle in a large outbred pedigree

Zhang, Q., Boichard, D., Hoeschele, I., Ernst, C., Eggen, A., Murkve, B., Pfister-Genskow, M., Witte, L., Grignola, F., Uimari, P., Thaller, G. & Bishop, M., aug. 1998, I: *Genetics*. 149, 4, s. 1959-1973 15 s.

The value of crossbreeding information in selection of poultry under a dominance model

Uimari, P. & Gibson, J., apr. 1998, I: *Animal Science*. 66, s. 519-528 10 s.

Advances in statistical methods to map quantitative trait loci in outbred populations

Hoeschele, I., Uimari, P., Grignola, F., Zhang, Q. & Gage, K., nov. 1997, I: *Genetics*. 147, 3, s. 1445-1457 13 s.

Mapping-linked quantitative trait loci using Bayesian analysis and Markov chain Monte Carlo algorithms

Uimari, P. & Hoeschele, I., juni 1997, I: *Genetics*. 146, 2, s. 735-743 9 s.

Sensitivity of segregation analysis to data structure and transformation: A case study of trypanotolerance in mice

Uimari, P., Kemp, S., Dekkers, J., Teale, A. & Kennedy, B., apr. 1997, I: *Heredity*. 78, s. 424-432 9 s.

The use of multiple markers in a Bayesian method for mapping quantitative trait loci
Uimari, P., Thaller, G. & Hoeschele, I., aug. 1996, I: Genetics. 143, 4, s. 1831-1842 12 s.

Power and sensitivity of some simple tests for detection of major genes in outbred populations
Uimari, P., Kennedy, B. & Dekkers, J., feb. 1996, I: Journal of Animal Breeding and Genetics. 113, 1, s. 17-28 12 s.

Power and parameter estimation of complex segregation analysis under a finite locus model
Uimari, P., Kennedy, B. & Dekkers, J., 1996, I: Genetics Selection Evolution. 28, 4, s. 345-358 14 s.

Relationship between bull dam herd characteristics and bias in estimated breeding value of bull
Uimari, P. & Mantysaari, E., 1995, I: Agricultural science in Finland. 4, 5-6, s. 463-472 10 s.

REPEATABILITY AND BIAS OF ESTIMATED BREEDING VALUES FOR DAIRY BULLS AND BULL DAMS
CALCULATED FROM ANIMAL-MODEL EVALUATIONS
UIMARI, P. & MANTYSAARI, E., okt. 1993, I: Animal production. 57, s. 175-182 8 s.

ACCURACY OF GENETIC EVALUATIONS IN DOMINANCE GENETIC MODELS ALLOWING FOR INBREEDING
Uimari, P. & Mäki-Tanila, A., dec. 1992, I: Journal of Animal Breeding and Genetics. 109, 6, s. 401-407 7 s.

Aktiviteter

Agrinatura General Assembly and Conference 2024

Autio, A. (Talare: Ordförande), Kurki, K. E. (Medlem i organisationskommitté), Uimari, P. (Medlem i organisationskommitté) & Rokka, S. (Medlem i organisationskommitté)
13 maj 2024 → 16 maj 2024

Vastaväittäjä Suranaree University

Uimari, P. (Handledare)
24 feb. 2023

Suranaree University of Technology

Uimari, P. (Besökande forskare)
15 dec. 2018 → 20 dec. 2018

Vastaväittäjä Kiinan Maatalousyliopisto

Uimari, P. (Handledare)
23 okt. 2018

Alper Tuna Kavlak PhD thesis supervision

Uimari, P. (Handledare)
2018 → ...

Canadian Journal of Animal Science (Tidskrift)

Uimari, P. (Referentgranskare)
2017 → ...

Vastaväittäjä SLU, Ruotsi

Uimari, P. (Opponent)
2 dec. 2016

Väitöskirjan esitarkastaja, HY

Uimari, P. (Förhandsgranskare)
1 aug. 2016 → 15 sep. 2016

Vastaväittäjä Aarhusin Yliopisto, Tanska

Uimari, P. (Opponent)
29 feb. 2016

Katja Martikainen PhD thesis supervision

Mäki-Tanila, A. (Handledare) & Uimari, J. P. (Handledare)
2016 → ...

Vastaväittäjä Wageningenin Yliopisto

Uimari, P. (Opponent)
9 dec. 2015

66th Annual Meeting of the European Federation of Animal Science (EAAP)

Uimari, P. (Närvarande)
30 aug. 2015 → 4 sep. 2015

Faculty of Social Sciences Gender Studies Teaching Basket (Extern organisation)

Uimari, P. (Medlem)
maj 2015 → 2016

Scientific Reports (Tidskrift)

Uimari, P. (Medlem i redaktionell ledning)
1 nov. 2014 → ...

Maa- ja Elintarvitalouden Tutkimuslaitos (Extern organisation)

Uimari, P. (Expert)
okt. 2014 → ...

10th World Congress on Genetics Applied to Livestock Production

Uimari, P. (Närvarande)
17 aug. 2014 → 22 aug. 2014

NOVA Kurssi Advanced quantitative genetics for animal breeding

Uimari, P. (Ordförande i organisationskommitté)
9 juni 2014 → 14 juni 2014

Agricultural and Food Science (Tidskrift)

Uimari, P. (Chefredaktör)
1 jan. 2014 → 31 dec. 2017

Vastaväittäjä SLU, Ruotsi

Uimari, P. (Opponent)
5 dec. 2013

Projekt**SSJS sikagenomiikka 2**

Uimari, P. (Projektledare)
Suomen sianjalostuksen säätiö
01/06/2023 → 31/12/2025

University profiling funding 7 InterEarth RESET

Airavaara, M. (Projektledare), Heiskanen, J. (Projektledare), Huiskonen, J. (Projektledare), Hyvärinen, M. (Projektledare), Kulmala, M. (Projektledare), Kulmala, M. (Projektledare), Mervaala, E. (Projektledare), Mäkelä, J. (Projektledare),

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