

PlantLink supported peer-reviewed articles

Publications supported through seed money grants are marked with an asterisk. The other publications have had bioinformatic support sponsored by PlantLink.

2012

Witzgall P, Proffit M, Rozpedowska E, Becher PG, Andreadis S, Coracini M, et al. "This is not an apple"-yeast mutualism in codling moth. *J Chem Ecol.* 2012;38(8):949-57.*

2013

Kaki SS, Adlercreutz P. Quantitative analysis of enzymatic fractionation of multiple substrate mixtures. *Biotechnol Bioeng.* 2013;110(1):78-86.*

2014

Amar D, Frades I, Danek A, Goldberg T, Sharma SK, Hedley PE, et al. Evaluation and integration of functional annotation pipelines for newly sequenced organisms: The potato genome as a test case. *BMC Plant Biology.* 2014;14(1).

Bengtsson T, Weighill D, Proux-Wéra E, Levander F, Resjö S, Burra DD, et al. Proteomics and transcriptomics of the BABA-induced resistance response in potato using a novel functional annotation approach. *BMC Genomics.* 2014;15(1).

Burra DD, Berkowitz O, Hedley PE, Morris J, Resjö S, Levander F, et al. Phosphite-induced changes of the transcriptome and secretome in *Solanum tuberosum* leading to resistance against *Phytophthora infestans*. *BMC Plant Biology.* 2014;14(1).

Crespo-Herrera LA, Akhunov E, Garkava-Gustavsson L, Jordan KW, Smith CM, Singh RP, et al. Mapping resistance to the bird cherry-oat aphid and the greenbug in wheat using sequence-based genotyping. *Theoretical and Applied Genetics.* 2014;127(9):1963-73.

Ding BJ, Hofvander P, Wang HL, Durrett TP, Stymne S, Löfstedt C. A plant factory for moth pheromone production. *Nat Commun.* 2014;5.*

Leiva-Eriksson N, Pin PA, Kraft T, Dohm JC, Minoche AE, Himmelbauer H, et al. Differential expression patterns of non-symbiotic hemoglobins in sugar beet (*Beta vulgaris* ssp. *vulgaris*). *Plant and Cell Physiology.* 2014;55(4):834-44.*

Turesson H, Andersson M, Marttila S, Thulin I, Hofvander P. Starch biosynthetic genes and enzymes are expressed and active in the absence of starch accumulation in sugar beet tap-root. *BMC Plant Biology.* 2014;14(1).

2015

Amar D, Frades I, Diels T, Zaltzman D, Ghatan N, Hedley PE, et al. The MORPH-R web server and software tool for predicting missing genes in biological pathways. *Physiol Plant.* 2015;155(1):12-20.

Andreadis SS, Witzgall P, Becher PG. Survey of arthropod assemblages responding to live yeasts in an organic apple orchard. *Front ecol evol*. 2015;3(OCT).*

Burra DD, Mühlenbock P, Andreasson E. Salicylic and jasmonic acid pathways are necessary for defence against *Dickeya solani* as revealed by a novel method for Blackleg disease screening of in vitro grown potato. *Plant Biol*. 2015;17(5):1030-8.

Frades I, Abreha KB, Proux-Wéra E, Lankinen Å, Andreasson E, Alexandersson E. A novel workflow correlating RNA-seq data to *Phytophthora infestans* resistance levels in wild *Solanum* species and potato clones. *Frontiers in Plant Science*. 2015;6(September).

Lager I, Glab B, Eriksson L, Chen G, Banas A, Stymne S. Novel reactions in acyl editing of phosphatidylcholine by lysophosphatidylcholine transacylase (LPCT) and acyl-CoA:glycerophosphocholine acyltransferase (GPCAT) activities in microsomal preparations of plant tissues. *Planta*. 2015;241(2):347-58.*

Manoharan L, Kushwaha SK, Hedlund K, Ahrén D. Captured metagenomics: Large-scale targeting of genes based on 'sequence capture' reveals functional diversity in soils. *DNA Res*. 2015;22(6):451-60.

Nicolia A, Proux-Wéra E, Åhman I, Onkokesung N, Andersson M, Andreasson E, et al. Targeted gene mutation in tetraploid potato through transient TALEN expression in protoplasts. *J Biotechnol*. 2015;204:17-24.

2016

Ding BJ, Lager I, Bansal S, Durrett TP, Stymne S, Löfstedt C. The Yeast ATF1 Acetyltransferase Efficiently Acetylates Insect Pheromone Alcohols: Implications for the Biological Production of Moth Pheromones. *Lipids*. 2016;51(4):469-75.*

Glab B, Beganovic M, Anaokar S, Hao MS, Rasmusson AG, Patton-Vogt J, et al. Cloning of glycerophosphocholine acyltransferase (GPCAT) from fungi and plants: A novel enzyme in phosphatidylcholine synthesis. *Journal of Biological Chemistry*. 2016;291(48):25066-76.*

Hofvander P, Ischebeck T, Turesson H, Kushwaha SK, Feussner I, Carlsson AS, et al. Potato tuber expression of *Arabidopsis WRINKLED1* increase triacylglycerol and membrane lipids while affecting central carbohydrate metabolism. *Plant Biotechnology Journal*. 2016;14(9):1883-98.

Kuktaite R, Newson WR, Rasheed F, Plivelic TS, Hedenqvist MS, Gällstedt M, et al. Monitoring Nanostructure Dynamics and Polymerization in Glycerol Plasticized Wheat Gliadin and Glutenin Films: Relation to Mechanical Properties. *ACS Sustainable Chem Eng*. 2016;4(6):2998-3007.*

Kushwaha SK, Chauhan P, Hedlund K, Ahren D. NBSPred: A support vector machine-based high-throughput pipeline for plant resistance protein NBSLRR prediction. *Bioinformatics*. 2016;32(8):1223-5.

Lankinen A, Abreha KB, Alexandersson E, Andersson S, Andreasson E. Nongenetic inheritance of induced resistance in a wild annual plant. *Phytopathology*. 2016;106(8):877-83.*

Lenman M, Ali A, Mühlenbock P, Carlson-Nilsson U, Liljeroth E, Champouret N, et al. Effector-driven marker development and cloning of resistance genes against *Phytophthora infestans* in potato breeding clone SW93-1015. *Theoretical and Applied Genetics*. 2016;129(1):105-15.

Roy A, Walker WB, Vogel H, Chattington S, Larsson MC, Anderson P, et al. Diet dependent metabolic responses in three generalist insect herbivores *Spodoptera* spp. *Insect Biochem Mol Biol*. 2016;71:91-105.

Volkova N, Li X, Zhu L-H, Adlercreutz P. Combination of modern plant breeding and enzyme technology to obtain highly enriched erucic acid from *Crambe* oil. *Sustainable Chemical Processes*. 2016;4(1):1.*

2017

Ivarson E, Iven T, Sturtevant D, Ahlman A, Cai Y, Chapman K, et al. Production of wax esters in the wild oil species *Lepidium campestre*. *Industrial Crops and Products*. 2017;108:535-42.*

Ivarson E, Leiva-Eriksson N, Ahlman A, Kanagarajan S, Bülow L, Zhu LH. Effects of overexpression of WRI1 and hemoglobin genes on the seed oil content of *Lepidium campestre*. *Frontiers in Plant Science*. 2017;7.*

Zhang K, Zhou T, Ye L, Bülow L. Characterization of protein-protein interactions in recombinant hemoglobin producing *Escherichia coli* cells using molecularly imprinted polymers. *Adv Exp Med Biol*: Springer New York LLC; 2017. p. 367-73.*

Zhao M, Jones CM, Meijer J, Lundquist PO, Fransson P, Carlsson G, et al. Intercropping affects genetic potential for inorganic nitrogen cycling by root-associated microorganisms in *Medicago sativa* and *Dactylis glomerata*. *Appl Soil Ecol*. 2017;119:260-6.*

2018

Abreha KB, Lankinen Å, Masini L, Hydbom S, Andreasson E. Late blight resistance screening of major wild swedish *Solanum* species: *S. dulcamara*, *S. nigrum*, and *S. physalifolium*. *Phytopathology*. 2018;108(7):847-57.*

Ahmadi-Afzadi M, Orsel M, Pelletier S, Bruneau M, Proux-Wéra E, Nybom H, et al. Genome-wide expression analysis suggests a role for jasmonates in the resistance to blue mold in apple. *Plant Growth Regul*. 2018;85(3):375-87.

Alexandersson E, Keinänen M, Chawade A, Himanen K. Nordic research infrastructures for plant phenotyping. *Agricultural and Food Science*. 2018;27(1):7-16.

Burra DD, Lenman M, Levander F, Resjö S, Andreasson E. Comparative membrane-associated proteomics of three different immune reactions in potato. *Int J Mol Sci*. 2018;19(2).

Chawade A, Armoniené R, Berg G, Brazauskas G, Frostgård G, Geleta M, et al. A transnational and holistic breeding approach is needed for sustainable wheat production in the Baltic Sea region. *Physiol Plant*. 2018;164(4):442-51.

Gustafsson C, Willforss J, Lopes-Pinto F, Ortiz R, Geleta M. Identification of genes regulating traits targeted for domestication of field cress (*Lepidium campestre*) as a biennial and perennial oilseed crop. *BMC Genet*. 2018;19(1).

Walter AJ, Willforss J, Lenman M, Alexandersson E, Andreasson E. RNA seq analysis of potato cyst nematode interactions with resistant and susceptible potato roots. *Eur J Plant Pathol.* 2018;152(2):531-9.

2019

Anaokar S, Kodali R, Jonik B, Renne MF, Brouwers JFHM, Lager I, et al. The glycerophosphocholine acyltransferase Gpc1 is part of a phosphatidylcholine (PC)-remodeling pathway that alters PC species in yeast. *Journal of Biological Chemistry.* 2019;294(4):1189-201.*

Eriksson NL, Reeder BJ, Wilson MT, Bülow L. Sugar beet hemoglobins: Reactions with nitric oxide and nitrite reveal differential roles for nitrogen metabolism. *BIOCHEM J.* 2019;476(14):2111-25.*

Masini L, Grenville-Briggs LJ, Andreasson E, Råberg L, Lankinen Å. Tolerance and overcompensation to infection by *Phytophthora infestans* in the wild perennial climber *Solanum dulcamara*. *Ecology and Evolution.* 2019;9(8):4557-67.*

Odilbekov F, Armoniené R, Koc A, Svensson J, Chawade A. GWAS-Assisted Genomic Prediction to Predict Resistance to Septoria Tritici Blotch in Nordic Winter Wheat at Seedling Stage. *Front Genet.* 2019;10.

Odilbekov F, He X, Armoniené R, Saripella GV, Henriksson T, Singh PK, et al. QTL mapping and transcriptome analysis to identify differentially expressed genes induced by *Septoria tritici* blotch disease of wheat. *Agronomy.* 2019;9(9).

Walker WB, III, Roy A, Anderson P, Schlyter F, Hansson BS, Larsson MC. Transcriptome Analysis of Gene Families Involved in Chemosensory Function in *Spodoptera littoralis* (Lepidoptera: Noctuidae). *BMC Genomics.* 2019;20(1).

2020

Alexandersson E, Kushwaha S, Subedi A, Weighill D, Climer S, Jacobson D, et al. Linking crop traits to transcriptome differences in a progeny population of tetraploid potato. *BMC Plant Biology.* 2020;20(1).

Becher PG, Verschut V, Bibb MJ, Bush MJ, Molnár BP, Barane E, et al. Developmentally regulated volatiles geosmin and 2-methylisoborneol attract a soil arthropod to *Streptomyces* bacteria promoting spore dispersal. *Nat Microbiol.* 2020;5(6):821-9.*

Geleta M, Gustafsson C, Glaubitz JC, Ortiz R. High-Density Genetic Linkage Mapping of *Lepidium* Based on Genotyping-by-Sequencing SNPs and Segregating Contig Tag Haplotypes. *Frontiers in Plant Science.* 2020;11.

Hammenhag C, Saripella GV, Ortiz R, Geleta M. QTL Mapping for Domestication-Related Characteristics in Field Cress (*Lepidium campestre*)—A Novel Oil Crop for the Subarctic Region. *Genes.* 2020;11(10):1223.

Juma I, Geleta M, Nyomora A, Saripella GV, Hovmalm HP, Carlsson AS, et al. Genetic diversity of avocado from the southern highlands of Tanzania as revealed by microsatellite markers. *Hereditas.* 2020;157(1):40.

Møller IM, Igamberdiev AU, Bykova NV, Finkemeier I, Rasmusson AG, Schwarzländer M. Matrix redox physiology governs the regulation of plant mitochondrial metabolism through posttranslational protein modifications. *Plant Cell*. 2020;32(3):573-94.*

Schmidt J, Dotson BR, Schmiderer L, van Tour A, Kumar B, Marttila S, et al. Substrate and plant genotype strongly influence the growth and gene expression response to trichoderma afroharzianum T22 in sugar beet. *Plants*. 2020;9(8):1-14.

Vetukuri RR, Kalyandurg PB, Saripella GV, Sen D, Gil JF, Lukhovitskaya NI, et al. Effect of RNA silencing suppression activity of chrysanthemum virus B p12 protein on small RNA species. *Arch Virol*. 2020;165(12):2953-9.

Willforss J, Leonova S, Tillander J, Andreasson E, Marttila S, Olsson O, et al. Interactive proteogenomic exploration of response to Fusarium head blight in oat varieties with different resistance. *Journal of Proteomics*. 2020;218.

2021

Juma I, Geleta M, Hovmalm HP, Nyomora A, Saripella GV, Carlsson AS, et al. Comparison of Morphological and Genetic Characteristics of Avocados Grown in Tanzania. *Genes*. 2021;12(1).