Swedish Research on

Organic Food and Farming
2008–2015

Updated version – November 2015
A Swedish Research Agenda for Organic Agriculture 2013

A Swedish research agenda for organic agriculture was developed by EPOK in an open process together with stakeholders in the food chain, as well as in dialogue with researchers and research funding bodies. The main aim of the research agenda is to provide a firmly established document to facilitate research priorities. Another important aim is to guide and inspire researchers to address relevant problems and draw attention to areas where knowledge is lacking. The research agenda is operating from 2013 and can be downloaded from www.slu.se/epok
**Introduction**

Swedish research on organic farming is to a large extent funded by directed calls for research on organic food systems. The funders are the research council Formas, the Swedish Board of Agriculture and SLU EkoForsk at the Swedish University of Agricultural Sciences. Furthermore, the Swedish Farmers’ Foundation for Agricultural Research (SLF) coordinates a programme for research projects within organic agriculture and horticulture called SLU EkoForsk.

In this publication the funded research projects will start in 2015 are also listed here. 

Research on crop and animal breeding has become of increased interest to meet the need of specific traits and breeding goals in organic farming systems, as an important part of building robust farming systems.

Effective weed control, both direct weed regulation and preventive measures, not the least of perennial weed species is another research focus in both agricultural and horticultural cropping systems. Pest and disease control with biological and preventive methods is a strong research area. The potential for conservation biological control to decrease pests and diseases is of high interest together with related research on effects of organic farming on biological diversity and ecosystem services on landscape level. A number of research projects are conducted on how to achieve high nutrient use efficiency of organic fertilisers, manure as well as a wide range of rest-products from society. Timing of fertiliser nutrient release in relation to crop nutrient needs to avoid environmental harmful emissions is one challenge.

Most of the research is conducted to meet knowledge needs in agricultural primary production, but some projects deal with other parts of the food system e.g. analysing organic markets and how to secure organic values throughout the food chain.

**Funders**

**SLU EkoForsk**

The Swedish University of Agricultural Sciences (SLU) coordinates a programme for research projects within organic agriculture and horticulture called SLU EkoForsk.

The aim is to improve the knowledge base for the development of crop cultivation, animal husbandry and the production of fruit, berries and vegetables. Projects should contribute to the development of a sustainable production in terms of environmental concerns, animal welfare, resource management, income level and productivity.

EkoForsk funded 45 projects from 2008–2016. (www.slu.se/sv/centrumbildningar-och-projekt/ekoforsk/)

**Formas**

The Formas programme for organic agriculture research may cover different parts of the food chain from primary production in agriculture and horticulture to the processing and marketing of organic food. Research of an interdisciplinary nature is encouraged. The research Formas finances should be of high relevance for current organic production and food systems.

Formas funded 38 projects from 2008–2018 and 6 projects 2014–2016 in a joint SLF/Formas program, see below.

**Swedish Farmers’ Foundation for Agricultural Research (SLF)**

The Swedish Farmers’ Foundation for Agricultural Research (SLF) is normally funding research on organic farming within their ordinary research programs. However, in 2013 a special program for research on organic farming was launched, which was a joint call of SLF and Formas for the period 2014–2016.

Fifteen projects from 2014–2016 are funded, 6 projects funded by Formas program and 9 projects funded by SLF research.

**The Swedish Board of Agriculture**

The Swedish Board of Agriculture funds research and development projects aiming at strengthening applied knowledge in animal health, animal husbandry, horticulture and crop management within organic agriculture.

The Swedish Board of Agriculture funded 8 ongoing and 6 new projects in the year of 2014.
CORE Organic

CORE Organic is a European transnational research cooperation project, which is part of the ERA-Net Scheme supported by the European Commission (www.coreorganic.org). CORE Organic has been run for three- to four-year periods and is coordinated by The International Centre for Research in Organic Food Systems (ICROFS). Three programs, 2008-2018 and are included in this report. Formas is the Swedish partner in CORE Organic. The aim of CORE Organic is to enhance the quality, relevance and utilisation of resources in European research in organic food and farming through coordination and collaboration. Learn more from the website: www.coreorganic.org.

A number of projects have been funded by the CORE Organic programs, with Swedish partners in three (CO I), six projects (CO II) and eight projects (CO Plus) which are reported in this brochure.

Current funding of research on organic agriculture in Sweden [million SEK]

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<th>Project</th>
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<td>SLU Ekoforsk</td>
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*Research projects are not reported here.

Projects

SLU EkoForsk 2014–2016

All project leaders are based at the Swedish University of Agricultural Sciences.

Ecology and plant protection of organic cropping systems, turnover and recycling of plant nutrients

Northern highbush blueberries – crop management in high tunnel and in the open field with emphasis on substrate and nutrients

Grant (SEK): 1 200 000
Hakan Asp, Department of Biosystems and Technology, hakan.asp@slu.se

Tomato – combined biological control with microorganisms and biofumigation

Grant (SEK): 2 498 000
Hanna Friberg, Department of Forest Mycology and Pathology/Centre for Biological Control, hanna.friberg@slu.se

Apples – application of ARs for protection against storage diseases

Grant (SEK): 1 624 000
Hilde Nybom, Plant Breeding and Biotechnology, hilde.nybom@slu.se

Fusarium in oats and spring wheat – variety and species mixtures for healthy crops with high quality

Grant (SEK): 1 664 600
Paula Persson, Crop Production Ecology, paula.persson@slu.se

Optimization of animal production systems

Dairy cows – Automatic foot spray disinfecting with environmentally friendly hypochlorous acid as alternative to traditional foot bath with polluting copper sulphate or antibiotics

Grant (SEK): 899 100
Christer Bergsten, Biosystems and Technology, christer.bergsten@slu.se

Cut fallow to replace black fallow – effect on couch grass

Grant (SEK): 1 069 000
Ulrika Carlson-Nilsson, Plant Breeding, ulrika.carlson@slu.se

Pelleted fertilizer – optimal placement with regard to nitrogen use efficiency, weeds and grain yields

Grant (SEK): 1 680 000
Sofia Delin, Soil and Environment, sofia.delin@slu.se

Functional botanical diversity – a path to robust cropping systems with aphids in focus

Grant (SEK): 600 000
Velemir Ninkovic, Ecology, velemir.ninkovic@slu.se

Potatoes – development of new hybridization material for improved resistance to late blight

Grant (SEK): 1 069 000
Ulrika Carlson-Nilsson, Plant Breeding, ulrika.carlson@slu.se

Optimization of animal production systems

Dairy cows – Automatic foot spray disinfecting with environmentally friendly hypochlorous acid as alternative to traditional foot bath with polluting copper sulphate or antibiotics

Grant (SEK): 899 100
Christer Bergsten, Biosystems and Technology, christer.bergsten@slu.se
Livestock on pasture – automatic weighing as an animal health monitoring tool  
Grant (SEK): 1 666 200  
Katarina Arvidsson, Animal Environment and Health, katarina.arvidsson@slu.se

Total mixed ration for dairy cows – an economic feeding strategy for organic farmers with automatic milking?  
Grant (SEK): 2 231 000  
Eva Spörndly, Animal Nutrition and Management, eva.sporndly@slu.se

Lamb production – animal welfare through breeding  
Grant (SEK): 578 000  
Anna Näsholm, Animal Breeding and Genetics, anna.nasholm@slu.se

Deep litter for sheep – plant nutrient value and comparison of straw and reed canary grass as bedding materials  
Grant (SEK): 2 129 700  
Cecilia Palmborg, Agricultural Research for Northern Sweden, cecilia.palmborg@slu.se

Piglet production – development of an organic production system where batch-wise group weaning is made possible by exploring the natural physiology of the sow  
Grant (SEK): 656 000  
Ylva Sjunnesson, Clinical Sciences, ylva.sjunnesson@slu.se

Northern Highbush Blueberries – Organic Production Systems  
Grant (SEK): 1 474 000  
Håkan Asp, Horticulture, hakan.asp@slu.se

Tomato Production – Balanced Fertilisation  
Grant (SEK): 1 200 000  
Birgitta Báth, Department of Crop Production Ecology, birgitta.bath@slu.se

Vegetables – improved weed control effect through prolonged germination period combined with false seedbed and delayed sowing  
Grant (SEK): 2 070 000  
David Hansson, Agriculture – Farming Systems, Technology and Product Quality, david.hansson@slu.se

The weed mower - mowing of Cirsium arvense and Tripleurospermum inodorum in winter wheat and leys for seed production  
Grant (SEK): 1 498 400  
Anneli Lundkvist, Crop Production Ecology, anneli.lundkvist@slu.se

Optimization of animal production systems  
Erysipelas – why are organic laying hen flocks affected  
Grant (SEK): 140 000  
Claes Fellström, Clinical Sciences, claesfellstrom@slu.se

Milk from cereals and high quality heritage only  
Grant (SEK): 754 000  
Eva Spörndly, Animal Nutrition and Management, eva.sporndly@slu.se

Milk production – optimization of protein feeding in relation to economy and environment  
Grant (SEK): 2 625 000  
Pekka Huhtanen, Agricultural Research for Northern Sweden, pekka.huhtanen@slu.se

Mussel meal fed to slow- and fast growing broilers  
Grant (SEK): 752 400  
Lotta Jönsson, Animal Nutrition and Management, lotta.jonsson@slu.se

Pig production – does leg health in growing finishing pigs improve by change of sire breed?  
Grant (SEK): 1 137 000  
Anna Wallenbeck, Animal Breeding and Genetics, anna.wallenbeck@slu.se

Roundworm infection – pathways on organic laying hen farms  
Grant (SEK): 1 094 000  
Johan Höglund, Biomedical Sciences and Veterinary Public Health, johan.hoglund@slu.se

SLU EkoForsk 2011–2013  
All project leaders are based at the Swedish University of Agricultural Sciences.

Ecology and plant protection of organic cropping systems, turnover and recycling of plant nutrients

Apple production – protection against storage diseases  
Grant (SEK): 1 370 100  
Hilde Nybom, Plant Breeding and Biotechnology, hilde.nybom@slu.se

Cereal cultivars – locally adapted for quality in production and product  
Grant (SEK): 1 690 000  
Eva Johansson, Agriculture – Farming systems, Technology and Product quality, eva.johansson@slu.se

Clover seed production – development of odor-based strategies to control seed-eating weevils  
Grant (SEK): 1 490 000  
Åsa Lankinen, Plant Protection Biology, asa.lankinen@slu.se

Couch grass – optimal timing of stubble cultivation and cutting of a grass/clover catch crop  
Grant (SEK): 822 000  
Lars Andersson, Crop Production Ecology, lars.andersson@slu.se

Faba bean – yield stability in varietal mixtures  
Grant (SEK): 1 000 000  
Georg Carlsson, Agriculture – Farming systems, Technology and Product quality, georg.carlsson@slu.se
SLU EkoForsk 2008–2010

All project leaders are based at the Swedish University of Agricultural Sciences.

Ecology and plant protection of organic cropping systems, turnover and recycling of plant nutrients

Biological control – utilization selective biodiversity and targeted crop rotation

Grant (SEK): 330 000
Birgitta Rämert, Plant Protection Biology, birgitta.ramert@slu.se

Ecology and plant protection of organic cropping systems, turnover and recycling of plant nutrients

Biological control – utilization selective biodiversity and targeted crop rotation

Grant (SEK): 330 000
Birgitta Rämert, Plant Protection Biology, birgitta.ramert@slu.se

Oilseed rape – nitrogen management strategies

Grant (SEK): 1 758 463
Maria Stenberg, Soil Sciences, maria.stenberg@slu.se

Oilseed radish and mustard – disease sanitors with great potential

Grant (SEK): 1 921 200
Paula Persson, Crop Production Ecology, paula.persson@slu.se

Orchards – new weed control methods

Grant (SEK): 1 649 000
David Hansson, Agriculture – Farming systems, Technology and Product quality, david.hansson@slu.se

Organic apples
– improving quality and storability

Grant (SEK): 762 100
Ibrahim Tahir, Plant breeding and Biotechnology, ibrahim.tahir@slu.se

Peas – effects of Brassica intercrops

Grant (SEK): 2 511 000
Kerstin Berglund, Soil Sciences, kerstin.berglund@slu.se

Potato production – faster emergence and earlier tuber development

Grant (SEK): 1 622 000
Jannie Hagman, Crop Production Ecology, jannie.hagman@slu.se

Thistle mower – an evaluation of a vegetation cutter

Grant (SEK): 1 094 500
Anneli Lundkvist, Crop Production Ecology, anneli.lundkvist@slu.se

Tomatoes – nitrogen and phosphorous availability

Grant (SEK): 1 390 000
Birgitta Båth, Crop Production Ecology, birgitta.bath@slu.se

Tussilago farfara – weed management

Grant (SEK): 1 133 000
Lars Andersson, Crop Production Ecology, lars.andersson@slu.se

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Tussilago farfara – weed management

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Lars Andersson, Crop Production Ecology, lars.andersson@slu.se

Optimization of animal production systems

Milk production based on herbage and cereal feeding – effects on milk and methane production

Grant (SEK): 1 240 000
Eva Spörndly, Animal Nutrition and Management, eva.spornldy@slu.se

White and red clover seed – increased biodiversity improves pollination

Grant (SEK): 1 662 000
Lars Andersson, Crop Production Ecology, lars.andersson@slu.se

Formas 2015–2018

Perennial crops – key components for robust and sustainable production systems?

Grant (SEK): 2 931 000
Anna Westerbergh, Swedish University of Agricultural Sciences, Plant Biology, anna.westerbergh@slu.se

Biological control of pathogenic microorganisms in the aquaculture production

Grant (SEK): 2 051 000
Alyssa Joyce, University of Gothenburg, Biological & Environmental Sciences, alyssa.joyce@bioenv.gu.se

Encouraging intercropping in Swedish organic farming through participatory research

Grant (SEK): 2 998 000
Erik Steen Jensen, Swedish University of Agricultural Sciences, Biosystems and Technology, erik.steen.jensen@slu.se
Multifunctional farming systems – linking plant-plant interactions, insect pest control and wildlife
Grant (SEK): 6 836 000
Velemir Ninkovic, Swedish University of Agricultural Sciences, Ecology, velemir.ninkovic@slu.se

Fertilization strategies in organic tomato production
Grant (SEK): 1 488 000
Birgitta Båth, Swedish University of Agricultural Sciences, Crop Production Ecology, birgitta.bath@slu.se

Integrated dairy and beef – effects of low-intensity organic cattle production on land use, environment and economy
Grant (SEK): 3 200 000
Christel Cederberg, Chalmers University of Thechnology, Energy and Environment, christel.cederberg@chalmers.se

Digestate a valuable fertilizer in organic production with added value for the environment and the farm
Grant (SEK): 4 740 000
Eva Salomon, SP Technical Research Institute of Sweden, JTI, eva.salomon@jti.se

Cost effective support to organic farming to benefit the conservation of biodiversity and ecosystem services
Grant (SEK): 5 367 000
Henrik Smith, Lund University, Conservation biology, henrik.smith@biol.lu.se

Antibiotics and antibiotic resistance in organic dairy production
Grant (SEK): 4 323 000
Ulf Emanuelson, Swedish University of Agricultural Sciences, Clinical Sciences, ulf.emanuelson@slu.se

Production of organic beef and other ecosystem services by grazing on a mosaic of pasture and forest
Grant (SEK): 6 447 000
Anemieke Gärdenäs, Swedish University of Agricultural Sciences, Soil and Environment, annemieke.gardenas@slu.se

Biological control of plant pathogenic nematodes in organic crop production with the nematode parasitic fungus Clonostachys rosea
Grant (SEK): 1 610 000
Dan Funk Jensen, Swedish University of Agricultural Sciences, Forest Mycology and Plant Pathology, dan.jensen@slu.se

Sustainable supply of organic clover seed – a crucial issue for organic agriculture
Grant (SEK): 6 009 000
Mattias Larsson, Swedish University of Agricultural Sciences, Plant Protection Biology, matias.larsson@slu.se

Formas 2011–2013
Effects of land use change on multifunctionality in agroecosystems: Biodiversity and ecosystem services after transition to organic production
Grant (SEK): 9 486 000
Jan Bengtsson, Swedish University of Agricultural Sciences, Ecology, jan.bengtsson@slu.se

Actor Based Life Cycle Assessment – towards green food chains for eco-products
Grant (SEK): 2 532 000
Birgit Brunklau, Chalmers University of Technology, Energy and Environment, birgitb@chalmers.se

Effects of fertilisation through nutrient recycling on soil biological functions and plant nutrient uptake and growth in organic crop production
Grant (SEK): 3 602 000
Sigrun Dahlin, Swedish University of Agricultural Sciences, Soil and Environment, sigrun.dahlin@slu.se

Risk factors responsible for development of leg weakness in pigs housed in outdoor organic systems. Studies aimed at clarifying the pathogenesis behind the joint lesions, and find preventive tools
Grant (SEK): 2 852 000
Stina Ekman, Swedish University of Agricultural Sciences, Biomedical Sciences and Veterinary Public Health, stina.ekman@slu.se

Viral infections in organic dairy herds – risks, biosecurity and resiliency
Grant (SEK): 3 150 000
Nils Fall, Swedish University of Agricultural Sciences, Clinical Sciences, nils.fall@slu.se

FISHWELFARE – Identification of key aspects for ecologically sustainable fish aquaculture under Swedish conditions
Grant (SEK): 905 000
Björn Frostell, KTH Royal Institute of Technology, Industrial Ecology, frostell@kth.se

The importance of natural enemy diversity and food-web structure for biological control at organic and conventional farms
Grant (SEK): 4 264 000
Mattias Jonsson, Swedish University of Agricultural Sciences, Ecology, mattias.jonsson@slu.se
Reproduction: the bottleneck in organic pig production – is there a biological management solution?
Grant (SEK): 3 336 000
Ulf Magnusson, Swedish University of Agricultural Sciences, Clinical Sciences, ulf.magnusson@slu.se

Cereal leaf microflora in different agricultural production systems – implication for biological control of Fusarium
Grant (SEK): 3 765 000
Paula Persson, Swedish University of Agricultural Sciences, Crop Production Ecology, paula.persson@slu.se

Development of pest management strategies in organic apple production in collaboration with farmers utilizing complementary biological control strategies
Grant (SEK): 6 190 000
Birgitta Rämert, Swedish University of Agricultural Sciences, Crop Production Ecology, birgitta.ramert@slu.se

The role of Paenibacillus polymyxa biofilm formation in protection of nursery plantlets against Pythium root rot
Grant (SEK): 1 853 000
Salme Timmusk, Swedish University of Agricultural Sciences, Forest Mycology and Plant Pathology, salme.timmusk@slu.se

Breeding strategies for organic animal husbandry
Grant (SEK): 2 605 000
Anna Wallenbeck, Swedish University of Agricultural Sciences, Animals Breeding and Genetics, anna.wallenbeck@slu.se

Sustainable livestock management with respect to animal transports and production systems: animal welfare and spread of disease
Grant (SEK): 3 313 000
Uno Wennergren, Linköping University, Physics, Chemistry and Biology, unwen@ifm.liu.se

Formas 2008–2010
Dormancy in reproductive vegetative buds in creeping perennials dominating the agricultural weed flora in Scandinavia
Grant (SEK): 3 301 000
Lars Adersson, Swedish University of Agricultural Sciences, Crop Production Ecology, lars.andersson@slu.se

Biodiversity and ecosystem services after transitions to organic production
Grant (SEK): 4 575 000
Jan Bengtsson, Swedish University of Agricultural Sciences, Ecology, jan.bengtsson@slu.se

Pollination and pest control in organic clover seed production – effect of field and landscape diversification
Grant (SEK): 2 925 000
Riccardo Bommarco, Swedish University of Agricultural Sciences, Ecology, riccardo.bommarco@slu.se

Predation rate and prey choice by generalist predators on organic farms
Grant (SEK): 2 321 000
Barbara Ekblom, Swedish University of Agricultural Sciences, Ecology, barbara.ekblom@slu.se

Exploiting soil microbial activity to enhance nutrient acquisition and sustainable pathogen control
Grant (SEK): 2 574 000
Roger Finlay, Swedish University of Agricultural Sciences, Forest Mycology and Plant Pathology, roger.finlay@slu.se

The green farm – an organic farm self-supplying with energy from renewable sources
Grant (SEK): 3 030 000
Per-Anders Hansson, Swedish University of Agricultural Sciences, Energy and Technology, per-anders.hansson@slu.se

Phosphorus feeding in organic dairy production
Grant (SEK): 708 000
Kjell Holtenius, Swedish University of Agricultural Sciences, Animal Nutrition and Management, kjell.holtenius@slu.se

Cropping systems in Organic Vegetable Production: The Behavioural and Chemical Basis of Ecological Processes in Brassica Crops
Grant (SEK): 4 045 000
Richard Hopkins, Swedish University of Agricultural Sciences, Ecology, richard.hopkins@slu.se

Sustainable livestock management with respect to animal transports and production systems: animal welfare and spread of disease
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Grant (SEK): 4 045 000
Richard Hopkins, Swedish University of Agricultural Sciences, Ecology, richard.hopkins@slu.se
Endophytic fungi in forage grasses
Grant (SEK): 2 310 000
Kerstin Huss-Danell, Swedish University of Agricultural Sciences, Agricultural Research for Northern Sweden, kerstin.huss-danell@slu.se

Parasite Management in Organic Cattle
Grant (SEK): 3 474 000
Johan Höglund, Swedish University of Agricultural Sciences, Biomedical Sciences and Veterinary Public Health, johan.hoglund@slu.se

Supplying organic farming with plant nutrients – resource and environmental aspects in a life cycle perspective
Grant (SEK): 3 405 000
Håkan Jönsson, Swedish University of Agricultural Sciences, Energy and Technology, hakan.jonsson@slu.se

Biological Pest Management in Oilseed Rape for Organic Oil Production
Grant (SEK): 6 245 000
Johan Meijer, Swedish University of Agricultural Sciences, Plant Biology & Forest Genetics, johan.meijer@slu.se

Utilization of synergies between enhanced biological control through selective biodiversity and targeted crop rotation
Grant (SEK): 3 890 000
Birgitta Rämert, Swedish University of Agricultural Sciences, Crop Production Ecology, birgitta.ramert@slu.se

The role of Paenibacillus polymyxa biofilm formation in protection of nursery plantlets against Pythium root rot
Grant (SEK): 1 853 000
Salme Timmusk, Swedish University of Agricultural Sciences, Forest Mycology and Plant Pathology, salme.timmusk@slu.se

Hempseed (Cannabis sativa) as a nutritional resource in organic poultry production
Grant (SEK): 1 750 000
Helena Wall, Swedish University of Agricultural Sciences, Animal Nutrition and Management, helena.wall@slu.se

Micronutrient management strategies in organic systems: How to utilize local and site specific resources for sustainable crop and animal production of high quality products?
Grant (SEK): 7 995 000
Ingrid Öborn, Swedish University of Agricultural Sciences, Soil Science, ingrid.oborn@slu.se

The Swedish Farmers’ Foundation for Agricultural Research in cooperation with Formas 2014–2016
(project titles are translated by editor, not confirmed by project leader)

Broiler chicken
Sustainable production systems for organic chicken meat – Effect of breeding material and production environment on productivity, animal welfare and environmental impact
Grant (SEK): 1 650 000
Anna Wallenbeck, Swedish University of Agricultural Science, Animal Breeding and Genetics, anna.wallenbeck@slu.se

Mapping the intestinal health of organic chicken and efficacy of vaccination against coccidiosis
Grant (SEK): 847 000
Desiree Jansson, National Veterinary Institute, desiree.jansson@sva.se

Dairy
Producing milk with forage and grain only – an organic model that could be economically viable, but does all cows fit?
Grant (SEK): 2 595 000
Rolf Spörndly, Swedish University of Agricultural Science, Department of Animal Nutrition and Management, rolf.sporndly@slu.se

Meat
Field beans to pork in conventional and organic production – properties and usability of different varieties
Grant (SEK): 1 935 000
Maria Neil, Swedish University of Agricultural Science, maria.neil@slu.se

New method for determining virulence of footrot bacteria in sheep
Grant (SEK): 995 000
Erik Eriksson, National Veterinary Institute, erik.eriksson@sva.se

Swedish Research on Organic Food and Farming 2008–2015
Potatoes

Development of late blight resistant potatoe varieties for the whole of Sweden
Grant (SEK): 2 000 000
Ulrika Carlson-Nilsson, Swedish University of Agricultural Sciences, Plant Breeding, ulrika.carlson@slu.se

Horticulture

Development of control strategy against storage diseases in organic apples and pears, a collaborative project
Grant (SEK): 1 920 000
Marie Olsson, Swedish University of Agricultural Science, Plant Breeding, marie.olsson@slu.se

Control strategies with mini fallow and interval crops against black and green nightshade in an organic crop rotation with potato, carrot and onion
Grant (SEK): 1 980 000
David Hansson, Swedish University of Agricultural Science, Biosystems and Technology, david.hansson@slu.se

Application technique with a focus on biological plant protection
Grant (SEK): 1 984 000
Klara Löfkvist, JTI – Swedish Institute of Agricultural and Environmental Engineering, klara.lofkvist@jti.se

Crop production

Variety mixing – a robust cropping system
Grant (SEK): 2 400 000
Velemir Ninkovic, Swedish University of Agricultural Science, Ecology, velemir.ninkovic@slu.se

Breeding of pea for increased resistance to root rot
Grant (SEK): 1 280 000
Magnus Karlsson, Swedish University of Agricultural Science, Forest Mycology and Plant Pathology, magnus.karlsson@slu.se

Effective utilization of slurry and digestate – Online analysis of manure quality that enables balanced fertilization
Grant (SEK): 1 071 000
Bo Stenberg, Swedish University of Agricultural Science, Soil and Environment, bo.stenberg@slu.se

Control of insect pests in clover seed crops with biological methods
Grant (SEK): 1 766 000
Ole Anderbrant, Lund University, Biology, ole.anderbrant@biol.lu.se

Increased harvest and crop safety with optimized distribution of seeds in the row at sowing on 25 cm row spacing
Grant (SEK): 1 297 000
Per Ståhl, Swedish Rural Economy and Agricultural Societies, per.stahl@hushallningssallskapet.se

Business

"You don't get anything for nothing" – how can ecosystem services be included in the farm's sustainability work?
Grant (SEK): 1 999 000
Christel Cederberg, SIK – the Swedish Institute for Food and Biotechnology, christel.cederberg@siik.se

The Swedish Board of Agriculture 2014 and 2015
(project titles are translated by editor, not confirmed by project leader)

Biodiversity

GPS positioning of lapwing nests in ley can streamline nature conservation
Grant (SEK): 109 000 (2015)
Sofia Kämpe, Agroväst livsmedel, sofia.kampe@agrovast.se

Competition between honeybees and wild pollinators, in which habitats and what time of the season is this a problem
Grant (SEK): 110 000 (2015-2016)
Magnus Stenmark, Faunistica AB, m.stenmark@faunistica.se

Bioenergy

Evaluation of farm-based biogas production - monitoring technology and methane emission issues in established plants
Grant (SEK): 784 000 (2015)
Sara Nilsson, Swedish Rural Economy and Agricultural Societies, sara.nilsson@hushallningssallskapet.se

Measures to minimize GHG emission losses from storage with digested and not digested animal manures
Grant (SEK): 1 028 000 (2015-2017)
Lena Rodhe, JTI – institute of Agricultural and Environmental Engineering, lena.rodhe@jti.se

Crop production

Sulphur and potassium fertilization to organic clover/grass ley
Grant (SEK): 114 000 (2015)
Ola Hallin, Swedish Rural Economy and Agricultural Societies, ola.hallin@hushallningssallskapet.se

Cheaper and better basis for varied liming with a national NIR database
Grant (SEK): 501 000 (2015)
Johanna Wetterlind, Swedish University of Agricultural Science, Precision Agriculture and Pedometrics Unit, johanna.wetterlind@slu.se

Nitrogen effect of organic fertilizers for spring and winter cereals
Grant (SEK): 2 307 000 (2012–2015)
Sofia Delin, Swedish University of Agricultural Science, Soil and Environment, sofiadelin@slu.se
Mini fallow and catch crops – a new strategy against black and green nightshade and free-living nematodes in an organic crop rotation with potato, carrot and onion
Grant (SEK): 383 000 (2014–2016)
David Hansson, Swedish University of Agricultural Science, Biosystems and Technology, david.hansson@slu.se

Autumn fertilization in organic timothy seed ley
Grant (SEK): 1 077 000 (2012–2014)
Eva Stoltz, Swedish Rural Economy and Agricultural Societies, eva.stoltz@hushallningssallskapet.se

Optimal utilization of nitrogen in the use of organic special fertilizer to winter wheat
Grant (SEK): 395 050 (2012–2014)
Henrik Nätterlund, Swedish Rural Economy and Agricultural Societies, henrik.natterlund@hushallningssallskapet.se

EKOKALK: Structure liming for improved soil structure and reduced phosphorus losses in organic farming
Grant (SEK): 721 000 (2014)
Kerstin Berglund, Swedish University of Agricultural Science, Soil Sciences, kerstin.berglund@slu.se

Animal husbandry
Improved protein quality of local feed materials by heat treatment
Grant (SEK): 1 467 000 (2012–2014)
Mårten Hetta, Swedish University of Agricultural Science, Agricultural Research for Northern Sweden, marten.hetta@slu.se

Horticulture
Strategy for safe organic tomato production – combined disease control by fertilizer, biofumigation and biological control
Grant (SEK): 690 000 (2014–2016)
Anna Mårtensson, Swedish University of Agricultural Science, Soil and Environment, anna.martensson@slu.se

Plant protection in organic raspberry cultivation during extended season
Grant (SEK): 592 000 (2012–2014)
Birgitta Svensson, Swedish University of Agricultural Science, Biosystems and Technology, birgitta.svensson@slu.se

Weed control in the early establishment of row-vegetables in organic farming
Grant (SEK): 1 760 000 (2012–2014)
David Hansson, Swedish University of Agricultural Science, Biosystems and Technology, david.hansson@slu.se

Crop protection
Propagation methods for biological control organisms in field crops
Grant (SEK): 290 000 (2014–)
Klara Löfkvist, JTI – Swedish Institute of Agricultural and Environmental Engineering, klara.lofkvist@jti.se

Biological measures for the control of root diseases of strawberry
Grant (SEK): 470 000 (2014)
Sammar Khalil, Swedish University of Agricultural Science, Biosystems and Technology, sammar.khalil@slu.se

Biological control of Acrothecium-rot in carrots
Grant (SEK): 1 436 000 (2012–2014)
Margareta Hökeberg, Swedish University of Agricultural Science, Forest Mycology and Plant Pathology, margareta.hokeberg@slu.se

Control of black grass (Alopecurus myosuroides Huds.) through various integrated cultivation measures
Grant (SEK): 1 001 000 (2012–2014)
Anders TS Nilsson, Swedish University of Agricultural Science, Biosystems and Technology, anders.ts.nilsson@slu.se

Which barley cultivar mixtures should be grown?
Grant (SEK): 200 000 (2014)
Velemir Ninkovic, Swedish University of Agricultural Science, Ecology, velemir.ninkovic@slu.se

CORE Organic Plus 2015–2018 – Projects with Swedish researchers

FertilCrop: Fertility building management measures in organic cropping systems
Coordinator: Andreas Fliessbach, Research Institute of Organic Agriculture (FIBL), Switzerland
Swedish participator: maria.stenberg@slu.se

ReSoLVe: Restoring optimal Soil functionality in degraded areas within organic Vineyards
Coordinator: Edoardo Costantini, Research Centre for Agrobiology and Pedology, Italy
Swedish participator: anna.martensson@slu.se

PRODiva: Crop diversification and weeds
Coordinator: Bo Melander, Department of Agroecology, Aarhus University, Denmark
Swedish participators: theo.verwijst@slu.se, anneli.lundkvist@slu.se

ECOORCHARD: Innovative design and management to boost functional biodiversity of organic orchards
Coordinator: Lene Sigsgaard, UCPH, Denmark
Swedish participator: mario.porcel@slu.se

PROPara: Tackling the parasitological challenges in organic ruminant farming practices
Coordinator: Spiridoula Athanasiadou, SRUC, United Kingdom
Swedish participator: johan.hoglund@slu.se
ORGANICDAIRYHEALTH: Improving animal health and welfare in organic cattle milk production through breeding and management
Coordinator: Jan Tind Sorensen, Aarhus University, Denmark
Swedish participant: anna.wallenbeck@slu.se

EcoBerries: Innovative and eco-sustainable processing and packaging for safe, high quality and healthy organic berry products
Coordinator: Marie Alminger, Chalmers University of Technology, Sweden
Swedish participants:
marie.alminger@chalmers.se & lilia.ahrne@sp.se

SusOrganic: Development of quality standards and optimised processing methods for organic produce
Coordinator: Barbara Sturm, University of Kassel, Germany
Swedish participant:
girma.gebresenbet@slu.se

CORE Organic II 2011–2013 – Projects with Swedish Researchers

COBRA: Coordinating Organic plant Breeding Activities for Diversity
Coordinator: Principal Researcher Dr Thomas Döring, The Organic Research Centre, United Kingdom.
Swedish participant:
nils-ove.bertholdsson@slu.se

Healthy Growth: From niche to volume with integrity and trust
Coordinator: Associate Professor Egon Noe, Agroecology, Aarhus University, Denmark.
Swedish participant:
rebecka.milestad@abe.kth.se

Softpest multitrap: Management of strawberry blossom weevil and European tarnished plant bug in organic strawberry and raspberry using semiochemical traps
Coordinator: Research Director PhD Atle Wibe, Bioforsk – Organic Food and Farming Division, Norway.
Swedish participant:
akbk@kth.se

HealthyHens: Promoting good health and welfare in European organic laying hens
Coordinator: Head of department Prof. Dr. Ute Knierim, Department of Farm Animal Behaviour and Husbandry, Faculty of Organic Agricultural Sciences, University of Kassel, Germany.
Swedish participant:
stefan.gunnarsson@slu.se

ICOPP: Improved contribution of local feed to support 100 % organic feed supply to pigs and poultry
Coordinator: Head of research unit John E. Hermansen, Dep. of Agroecology and Environment, Faculty of Agricultural Sciences, University of Aarhus, Denmark.
Swedish participant: maria.neil@slu.se

SAFEORGANIC: Restrictive use of antibiotics in organic animal farming – a potential for safer, high quality products with less antibiotic resistant bacteria
Coordinator: PhD, Research Leader Søren Aabo, Technical University of Denmark, National Food Institute, Denmark.
Swedish participant: bjorn.bengtsson@sva.se

Core Organic I 2008–2010 – Projects with Swedish Researchers

COREPIG: A tool to prevent diseases and parasites in organic pig herds
Coordinator: Tine Rousing Nielsen, University of Aarhus, Faculty of Agricultural Sciences, Dept. of Animal Health, Welfare and Nutrition.

PHYTOMILK: What makes organic milk healthy?
Coordinator: Anne-Maj Gustavsson, Swedish University of Agricultural Sciences, Agricultural Research for Northern Sweden.

PathOrganic: Assessing and reducing risks of pathogen contamination in vegetables
Coordinator: Doz. Dr. Angela Sessitsch, AIT Austrian Institute of Technology GmbH, Bioreources Unit.
EPOK – Centre for Organic Food and Farming at the Swedish University of Agricultural Sciences (SLU) works with collaboration and communication within organic agriculture research in a Swedish, Nordic and international perspective.

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