



Annual Report 2004

including plans for 2005

Content

Introducing SOAR	3
Activities during 2004	7
Activities planned for 2005	12
Financial Overview	14
The PhD projects	18
The Key Supervisors	32

The Royal Veterinary and Agricultural University, Denmark
March 2005

Head of School Henning Høgh Jensen

List of abbreviations

DARCOF	Danish Research Center for Organic Farming (FØJO)
DIAS	The Danish Institute of Agricultural Sciences
DMU	Danmarks MiljøUndersøgelser (National Environmental Research Institute)
DTU	Technical University of Denmark
DVI	The Danish Veterinary Institute
FUR	Forsker Uddannelses Rådet (Danish Research Training Council)
FØI	Danish Research Institute of Food Economics
FØJO	Forskningscenter for Økologisk Jordbrug (Danish Research Center for Organic Farming, DARCOF)
ISOFA	International Society of Organic Agricultural Research
IVM	Department of Veterinary Microbiology (KVL)
KVL	The Royal Veterinary and Agricultural University
NERI	National Environmental Research Institute
NOVA	The Nordic Forestry, Veterinary and Agricultural University
NorFA	Nordic Academy for Advanced Study
RAN	Research School in Animal Nutrition and Physiology
RAPH	Research School for Animal Production and Health
RUC	Roskilde University Center
SAB	Scientific School in Animal Breeding
SOAR	The Research School for Organic Agriculture and Food Systems

Introducing SOAR

The Research School for Organic Agriculture and Food Systems (SOAR) is located at The Royal Veterinary and Agricultural University (KVL) in Copenhagen and at by the end of 2004 28 PhD students were enrolled. SOAR was founded in June 2001 with funding from KVL, the Danish Research Centre for Organic Farming (DARCOF) and the Danish Research Training Council (FUR).

The research interests of SOAR cover the three themes:

- Organic crop production, quality of the environment and management of resources
- Organic livestock production and health
- Organic agriculture/food production and society

The research is intended to develop organic farming further in order to increase the possibilities for transition from conventional to organic farming, while encouraging a sustainable development of the economic, ecological and social aspects of agriculture.

The objective of SOAR is to strengthen research training within organic agriculture and food systems. To ensure a high quality PhD education SOAR seeks a balance between breadth and depth in the study programme, so that PhD students become specialists within their fields, at the same time as placing their research in a wider context.

SOAR therefore aims at:

- attracting students and offering scholarships
- supplying students with the tools needed to work in an interdisciplinary and systemic way, and to place their research in a wider context
- strengthening the network between universities and research institutions
- encouraging personal development of students including a critical attitude to the principles and values on which organic agriculture is founded
- building competences and skills of supervisors
- encouraging international cooperation

SOAR ensures that a common platform is provided for all PhD students and supervisors for them to share aims, means and methodologies in organic farming research. Organic agriculture and food systems have evolved with its own values, principles and regulations, and these must be continuously debated by researchers and other stakeholders. SOAR as a research school has the obligation to encourage this debate among students and supervisors.

Most PhD students in SOAR have two or more supervisors, one from a university and one from a sector research institute. This should enhance interaction and cooperation between universities and sector research institutions, and ensure a broader supervision of students. Also, supervisors and PhD students can suggest courses to be offered by SOAR.

Although located at KVL SOAR has continued strong links to other universities and DARCOF. SOAR is established on a 5 years' trial basis ending in June 2006.

Aims and Objectives

The major aims of SOAR are

- to improve the quality of the PhD education
- to raise the scientific level of research within areas relevant to organic agriculture by training the PhD students to deal with complex problems, and
- to create an attractive research environment for the PhD students in SOAR

The general objectives of SOAR are

- To improve and strengthen education at the PhD level within organic agriculture and food systems by developing joint courses and by establishing networks to strengthen the interaction between supervisors and their students – both within and across the institutions
- To provide the tools needed for students to work in an interdisciplinary and systemic way through courses and seminars
- To encourage the personal development of students and a critical attitude to the principles and the values on which organic agriculture is founded through participation in interdisciplinary research
- To attract national and international MSc and PhD students to the research area of organic agriculture and food systems
- To enhance interaction and cooperation between universities and sector research institutions in postgraduate research training
- To strengthen supervisors' competences and skills
- To establish and strengthen the relationship between research training and society
- To improve the competitiveness of research training internationally and to encourage international cooperation including Nordic cooperation in PhD education within the Nordic Forestry, Veterinary and Agricultural University (NOVA).

Organizational structure of SOAR

Organization

Head of School is Associate Professor Henning Høgh Jensen, who refers to the pro-rector of research at KVL. Management and decision making is conducted by the head of school in close collaboration with a Scientific Advisory Board. The Scientific Advisory Board is chaired by the Head of the School, and otherwise constituted of representatives from KVL, DARCOF, DMU, DJF and a PhD student. A secretariat (head of school and a part time academic assistant) takes care of daily management. The Academic Assistant supports the Head of the School and assists the PhD students with information on PhD courses, conferences, workshops, participate in planning and conduction of biannual seminars and summer schools – in collaboration with PhD students, Head of the School and supervisors. The Head of the School receives partial compensation for his work with the Research School.

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The first grants to SOAR from KVL, DARCOF and the Danish Research Agency have all been allocated by the end of 2004, resulting in 13 co-funded PhD stipends, and only a limited number of new stipends have been attracted since. At this point it was considered appropriate to conduct an international evaluation of the research school to document SOAR's achievements so far, and to be able to formulate a strategy for further developments and initiatives, and to apply for funding for new PhD stipends. In November an international evaluation team was appointed and terms of reference drafted (see appendix 1). SOAR secretariat prepared a self evaluation report in November, and together with Annual reports and Statutes this formed the basis for the external evaluation. The evaluation per se has been conducted in January 2005; see SOAR web-site www.soar.dk.

Through 2004 possibilities for new funding for PhD stipends has been explored. Contacts to Industry through Landbrugsrådet have so far not resulted in concrete outcomes. The Ministry of Science, Technology and Development supports initiatives from Industry (ErhvervsPhD Initiativet) to employ PhD students in private companies and organizations. SOAR presented these opportunities at the 'Økologi-Kongres 2004' (Organic Conference) in Odense, with a poster presenting the research school. This has led to initial contacts with 'Landscentret' for such PhD scholarships.

In 2004 no funding has been available for internationalization stipends from the Danish Research Training Council.

In 2003 SOAR participated in an EU application together with 3 other KVL Research Schools (RAPH, RAN and SAB) to become a Marie Curie Training Site. This application was resubmitted in 2004, but the application was not favoured.

Biannual seminars

SOAR conducts two yearly seminars for networking, lectures, complementary training and group-discussions on subjects relevant to the PhD study. The seminars are planned by SOAR secretariat in collaboration with the PhD students. At each seminar time is allocated for a theme decided by the PhD students. The venue is different every time, visiting the different research institutions and working places of the PhD students. At each seminar the PhD students hosting the seminar present their projects and get feed back. Members of the Scientific Advisory Board also join the seminars whenever feasible, and specific parts of the seminars are open to supervisors.

Spring 2004:

In spring the seminar was held at Foulum Research Center, DIAS, on 29-30 April. Bent Tolstrup Christensen, DJF representative in the Scientific Advisory Board presented the new structure of the Danish research councils, and the implications of the new structure were debated. Erik Steen Kristensen, center leader in DARCOF, presented plans for the new call for research projects in

DARCOF, known as DARCOF III. Senior researchers from DIAS presented their research in organic farming, and the group went on a guided tour on the premises. At this seminar a course in oral presentations was given as complementary training. This course was conducted by two students from Rethorics at Copenhagen University.

Autumn 2004:

The autumn seminar was held on 4-5 November at KVL Taastrup. On the first day supervisors participated in a course on Logical Framework Approach, followed by a half day seminar on quality of PhD dissertations. Annette Kjær Ersbøll of the PhD study board at KVL presented the rules at KVL and plans for changes. On the second day PhD students working at KVL and DFVF presented their projects, and in addition one other researcher at KVL engaged in research in organic agriculture presented his research. The Head of School presented status and plans for SOAR activities, including an evaluation of the research school.

Summer School 2004

It is our intension that summer schools in SOAR should bring in breadth in the PhD education to supplement the more disciplinary research training that PhD students get from their research projects. Because of the broad scope of SOAR, with organic agriculture and food systems being the common denominator summer schools are aimed at broad themes, like research methodologies and philosophy of science, in relation to organic farming. The programs and course descriptions of previous and future summer schools are available at the web-site www.soar.dk.

The summer school 2004 was titled "Is Organic Farming the key to Sustainability?" Associate professor Vibeke Langer was course responsible. Associate professor Christian Gamborg from the Center for Bioethics and Risk Assessment and senior scientist Niels Halberg from DIAS participated in the planning and as course teachers during the course. From SwOFF Torbjörn Rydberg participated from SLU in Uppsala, Sweden. Furthermore associate professor Jesper Rasmussen from KVL participated. Guest speakers from UK gave their perspectives on sustainability: Dan Rigby from Manchester University and Steve Roderick from Organic Studies Centre, Cornwall. In addition Alex Dubgaard and Katherine O'Doherty from KVL, and Niels Heine Kristensen from DTU participated as guest lecturers. 16 PhD students participated in the Summer School, 10 from SOAR, 2 from Balticum, 2 from Norway, a visiting student from Czech Republic and a student working at DIAS and enrolled at Wageningen University in the Netherlands. Nova funded the course, and NorFA funded the travel for the Baltic students. Evaluation of the summer school is available on the web-site www.soar.dk.

PhD Courses

An ad hoc SOAR course in social science has been conducted in January 2004, entitled 'Modernization processes in Organic Food Networks'. Four SOAR students and five other PhD students participated in the course.

SwOFF conducted a course on 'Agroecology with emphasis on horticultural cropping systems', in September – November 2004, and one SOAR PhD student participated in this course.

The Scientific Advisory Board

From January 1st 2004 a new head of school has been appointed: Associate professor Henning Høgh Jensen, Department of Agricultural Sciences. Stig Milan Thamsborg was then appointed KVL representative of the board, which has ensured continuity in the work and important transfer of knowledge. KVL representative, professor Leif Skibsted was appointed head of the research school FOOD, and left the scientific advisory board in 2004. Instead associate professor Åse Hansen, also Food Science at KVL, was appointed. In 2004 the Scientific Advisory Board has conducted 4 meetings. Next meeting is scheduled to March 3rd 2005.

Secretariat

From January 2004 the position of the academic assistant was increased from 20 hours to 25 hours per week.

Daily communication between the secretariat, the Scientific Advisory Board, the PhD students and the key supervisors is to a wide extent done through the homepage www.soar.dk. The homepage is also intended to be the face to the outside World as a first contact to potential candidates and others interested in SOAR's activities. A flyer has been printed to give an introduction to SOAR, both in Danish and English, in an effort to make SOAR better known. SOAR was also present at the 'Økologi-Kongres 2004' (Organic Conference) in Odense, with a poster presenting the research school.

International cooperation

The close cooperation with the other Nordic countries has been continued in 2004 within the NOVA University (www.nova-university.org) in the network for Agroecology, and communication within and outside the network is facilitated through the web-site of the Nordic School for Agroecology / Ecological Agriculture (www.agroasis.org). Through NOVA collaboration has been extended to the BOVA University: The Baltic Forestry, Veterinary and Agricultural University (www.bova-university.org), and in 2003 2 PhD students from the Baltics participated in our Summer School. The four summer schools have been planned and accomplished in close collaboration with the Nordic countries through NOVA. All activities are coordinated closely

with the Swedish Research School for Organic Agriculture and Food Systems (SwOFF). SOAR summer schools are receiving funding from NOVA.

SOAR has signed a Memorandum of Understanding with the Graduate School of Agricultural Sciences at the Makerere University in Uganda in November 2004. Uganda is one of the most advanced African countries within organic farming, and this new collaboration can serve as a spearhead for collaboration in the African continent.

Collaboration with Ain-Shams University in Cairo, Egypt, has been strengthened through the internationalisation stipend (PhD student Ahmed El-Naggar), and the supervisor in Egypt, Professor Ahmed El-Araby, has visited KVL 2 times during 2004.

In November 2004 an international evaluation of SOAR was initiated. The evaluation team was chaired by associate professor Johannes Michelsen from the University of Southern Denmark, and other members were professor Carlo Leifert from Newcastle University, UK, associate professor Egbert Lantinga from Wageningen University, The Netherlands, and professor David Collinge from KVL.

Research in organic agriculture and food systems in Denmark is moving towards extensive international integration in the coming years. To meet this challenge the secretariat has worked on a strategy in collaboration with the Scientific Advisory Board. The strategy will be finalized in 2005 when the research school has been evaluated. It is anticipated that the international composition of the evaluation team in itself will open new international contacts.

Activities planned for 2005

Continuation beyond 2006

It is expected that KVL will decide on the continuation of the research school on basis of the evaluation in January 2005. If this decision is in favour of SOAR's continuation beyond the initial period of 5 years (2001-2006), a strategy for further development will be drawn up. Much effort will also go into fundraising to allow SOAR to continue its activities. This may include an application to the Danish Research Agency April 2005.

PhD Stipends

Two more PhD students will enrol in SOAR in 2005. One is funded through the SOAR joint grants and another through a KVL regular stipend. It is the plan to apply for funding for new joint grants (1/3-stipends) for SOAR. Contacts with Industry will be intensified and new sources of funding explored. It is expected that a number of stipends (15-20) will be announced through DARCOF, as there will be a call for research projects within organic farming and food systems in 2005, and each project should include at least one PhD stipend.

Biannual seminars

Spring seminar is planned for 28-29 April at DMU (NERI) Roskilde. Autumn seminar will be planned for November.

Supervisor course

As a follow up to the supervision course in 2003 and the seminar in 2004 it is the plan to bring supervisors together in connection with the Autumn seminar.

Summer school

The title of the summer school 2005 is "Globalisation: Threat or Opportunity for Organic Farming?" A planning group covering the different disciplines within the research school and members of the NOVA Network Agroasis has been formed, and the first planning meeting is scheduled at 2nd February. Responsible for the summer school is associate professor Henning Høgh Jensen, KVL.

It is also the plan to submit a new application to NOVA for funding of a summer school in 2006 by May 1st 2005.

International cooperation

The vision is to strengthen international cooperation both in terms of student exchange and courses in organic agriculture and food systems. As DARCOF has launched the new strategy for 2005-2010 entitled International research cooperation and organic integrity (Internationalt forskningssamarbejde og

økologisk integritet) SOAR will seek close interaction with DARCOF to implement the part of the strategy that focus on (i) existing projects under the 6. framework with DARCOF participation, and (ii) in particular on the CORE Organic project.

International research cooperation will also be encouraged through ISO FAR, the International Society of Organic Agricultural Research, which was founded in 2003.

SOAR will continue inviting guest researchers and speakers to Denmark in order to give the PhD-students a possibility to establish international contacts in connection with the summer school or seminars when students are gathered.

Collaboration with Ain Shams University in Cairo, Egypt, through the internationalisation stipend (PhD student Ahmed El-Naggar), will continue, and the KVL supervisor, Henning Høgh Jensen will visit Ain-Shams University while Ahmed El-Naggar is working on field experiments in Egypt.

SOAR will apply for new internationalisation stipends from the Danish Research Agency to strengthen collaboration with Ain Shams University in Egypt and Makerere University in Uganda. SOAR will further enhance this collaboration through testing of new collaborative means on PhD education through the DARCOF III's planned component 3.8 on "sustainability, urbanisation and global trade" where the two universities is anticipated to become involved to some extent.

Cooperation within NOVA will continue through the Agroecology Network: Nordic School of Agroecology/Ecological Agriculture, Agroasis (www.agroasis.org). Both SOAR and the Swedish research school SwOFF (<http://www.cul.slu.se/english/education/swoff/index.html>) are represented in Agroasis, and close collaboration with SwOFF will continue, with coordination and mutual support of PhD courses in the two research schools.

SOAR will take a lead in setting up a common Nordic list of PhD students within organic agriculture and food systems, improve communication on the Nordic level, and explore possibilities for common courses within or across the different disciplines.

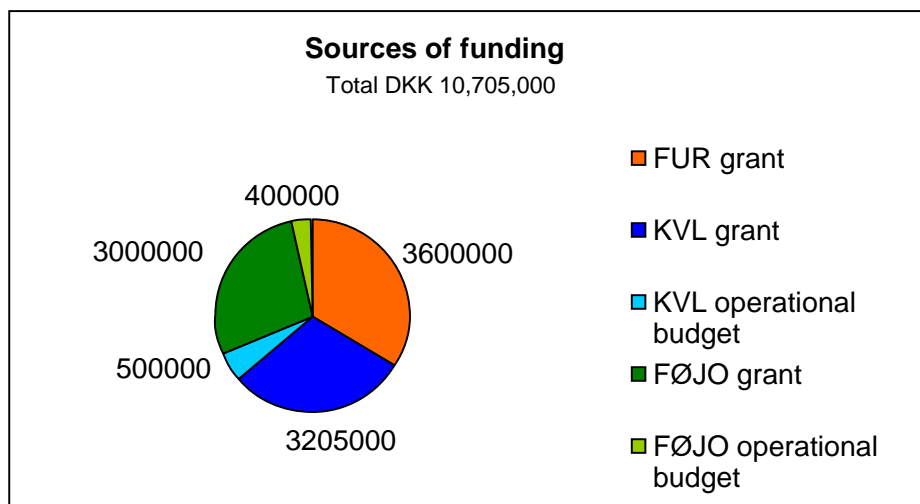
Through the Agroecology Network Agroasis, SOAR plan to participate in a NOVA application for Marie Curie funding for a series of events together with other networks in NOVA. The summer schools of SOAR could form a significant backbone in such a series with its focus on interdisciplinarity and science theory.

The possibilities for submitting an application for a Marie Curie Training Network for the May 2005 deadline is under investigation among leading European organic actors.

Financial overview

Initial sources of funding

The total budget for SOAR stipends and operational costs is DKK 10,705,000 over a 5 years' period. From the outset in June 2001 a budget was made to cover operational costs and SOAR's contribution to the stipends. SOAR's original budget is shown overleaf. The figure below shows the sources of funding for SOAR.



Additional sources of funding

The grants from DARCOF, KVL and FUR have enabled the research school to enrol 13 PhD students through co-funding from research institutes. In addition to these grants DARCOF has directly (fully or partly) funded 10 PhD students enrolled in SOAR, amounting to a contribution of 7,209,000 DKK, and 3 PhD students are fully or partly funded directly by KVL, with co-funding attracted from outside the research school. Furthermore SOAR was granted 2 stipends from FUR for international PhD students: One from Egypt and one from Spain. In 2004 SOAR was granted one 1/3 stipend from the Research Council, matched by 1/3 stipend from KVL, and co-funded by a research institution.

SOAR also received funding from the NOVA University Network to conduct summer schools in 2003, 2004 and 2005. Furthermore support was received from NorFA (now Nordforsk) for the participation of Baltic students in the Summer Schools 2003 and 2004.

Table 3.1 *Original budget for SOAR, as of June 2001*

Item	Amount (DKK)
2001 (from 1.7)	
Head of SOAR	0
Academic assistant	10.000
Operational costs	0
1 seminar	15.000
Stipends*	0
Overhead**	5.000
Total	30.000
2002	
Head of SOAR	175.000
Academic assistant	100.000
Operational costs	50.000
Biannual seminars	20.000
Summer school	140.000
Supervisor course	40.000
Stipends* (min. 4 initiated)	1.171.556
Overhead**	187.111
Total	1.883.667
2003	
Head of SOAR	175.000
Academic assistant	100.000
Operational costs	50.000
Biannual seminars	30.000
Summer school	150.000
Supervisor course , guest lecturers	40.000
Stipendier* (min. 4 initiated, 4 continued)	2.373.111
Overhead**	323.222
Total	3.241.333

Item	Amount (DKK)
2004	
Head of SOAR	175.000
Academic assistant	100.000
Operational costs	50.000
Biannual seminars	35.000
Summer school	160.000
Supervisor course , guest lecturers	50.000
Stipends* (min. 8 continued)	2.405.111
Overhead**	378.222
Total	3.353.333
2005	
Head of SOAR	175.000
Academic assistant	100.000
Operational costs	50.000
Biannual seminars	35.000
Summer school	160.000
Supervisor course , guest lecturers	50.000
Stipends* (min. 4 continued)	1.218.556
Overhead**	246.111
Total	2.034.667
2006 (up to 30.6)	
Head of SOAR	40.000
Academic assistant	50.000
Operational costs	25.000
1 seminar	20.000
Stipends*	0
Overhead**	27.000
Total	162.000
Grand total	10.705.000

* The stated amount constitute SOAR's contribution to the stipends

** OH constitute less than 20% of the full amounts, since no overhead is calculated from KVL's grant

Accounting 2004

The accounting below shows the amounts that are debited to the SOAR account at KVL. Grants for stipends from KVL and FØJO are paid directly to user, and are not included in this accounting.

2004 (amounts in DKK)	Budget	Expenditure	Transfer
<i>Transfer from 2003</i>	1.199.000		
FUR excl. OH ¹	1.000.000		
Forsk excl OH	188.000		
NOVA SS 2003	104.620		
Total income	2.491.620		
Head of SOAR	75.000	104.211	-29.211
Academic assistant	250.000	260.455	-10.455
Operational costs	50.000	42.284	7.716
2 seminars, sup. course	40.000	36.013	3.987
Courses	100.000	37.140	62.860
Summer school	166.000	90.295	75.705
Supervisor course ²	50.000	0	50.000
PhD stipends ³	219.000	255.090	-36.090
Total expenditure	950.000	825.488	
Total 2004	1.514.620		1.666.132
PhD stipends paid directly	606.250		

¹ Including overhead to KVL the amount is 1.200.000 DKK.

² Expenditures merged with seminars

³ Stipends paid from SOAR account. Due to joint funding of PhD stipends the first SOAR contribution started in June 2004

Budget for 2005

2005 (amounts in DKK)	Budget
<i>Transfer from 2004</i>	1.666.000
FUR excl. OH	500.000
Forsk excl OH	188.000
FØJO excl OH	270.822
NOVA ¹	91.838
Income	2.716.660
Budgeted expenditures	
Head of SOAR	75.000
Academic assistant	270.000
Operational costs	50.000
2 biannual seminars	40.000
Summer school	140.000
Supervisor course	50.000
Courses	100.000
PhD stipends ²	495.910
Total expenditures 2005	1.220.910
Transfer to 2006	1.495.750
PhD stipends paid directly ³	1.956.250

¹ Contribution for Summer School 2004

² The SOAR contribution started in June 2004

³ This funding from KVL and DARCOF does not enter SOAR account at KVL

The PhD Projects

At the launch of SOAR in 2001 12 PhD students were enrolled. By the end of 2004 the number of PhD students enrolled in SOAR is 28. Research projects in SOAR are divided into three themes:

Theme 1: Organic crop production, nature quality and resource management
13 projects

Theme 2: Organic livestock production and health
7 projects

Theme 3: Organic agriculture, food production and society
8 projects

Of the 28 students enrolled, 17 are women

2 students came from overseas

22 of the students are enrolled at KVL, 2 at DTU, 2 at RUC and 2 at Aalborg University. The distribution at work places is as follows:

KVL 10	DIAS Foulum 6	DMU 3
DTU 1	DIAS Bygholm 1	Risø 3
RUC 1	DIAS Flakkebjerg 1	DFVF 1
Aalborg 1		

List of PhD students enrolled in SOAR

PhD-student	Ahmed El-Naggar
Title of project	Natural amino acids hydrolysates from plants soakings as a nitrogen source in Organic Agriculture
Supervisors	Associate professor Henning Høgh Jensen, KVL Assistant professor Andreas Flach de Neergaard, KVL Professor Ahmed El-Araby, Ain-Shams Univ, Egypt
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University
E-mail / phone	aen@kvl.dk / 3528 3517
Aim	The major research objective of this study is to investigate amino acid content and composition in soakings of different plant materials. Fertilizer and plant growth effects of such soakings will be investigated as well as their ability to chelate micronutrients in the soil.

PhD-student	Anders Pedersen
Title of project	Optimisation of nitrogen use efficiency in organic vegetable production
Supervisors	Associate professor Lars Stoumann Jensen, KVL Senior scientist Kristian Thorup Kristensen, DIAS
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University
E-mail / phone	anders@kvl.dk / 3528 3494
Aim	The aim of the Ph.D.-project is to improve the modelling of root growth. The focus is to investigate organic vegetable crop rotations, and open up for a better understanding in nitrogen use and to avoid leaching of nitrate into the environment. The main thing to study will be, root penetration rate and root proliferation in different soil layer, and modelling the ability of different root systems to take up nitrogen from different places in the soil profile.
PhD-student	Annette Nygaard Jensen
Title of project	Bacterial infection risk associated with outdoor organic pig production with special reference to <i>Salmonella</i> and <i>Campylobacter</i> infection
Supervisors	Associate professor Anders Dalsgaard, KVL Senior scientist Dorte Lau Baggesen, DFVF Senior scientist Eva Møller Nielsen, SSI
University	The Royal Veterinary and Agricultural University
Working place	Danish Veterinary Institute,
E-mail / phone	anj@vetinst.dk / 3530 0328
Aim	The objective of this project is to improve the knowledge on the risk of outdoor pig production in relation to spread and persistence of <i>Campylobacter</i> and <i>Salmonella</i> infections.
PhD-student	Bjørn Molt Petersen
Title of project	Modeling of processes at the farm level, with special emphasis on nitrogen and carbon flow and turnover.
Supervisors	Senior scientist Jørgen E. Olesen, DIAS Professor John R. Porter, KVL
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Foulum
E-mail / phone	BjornM.Petersen@agrsci.dk / 8999 1668
Aim	The aim of the Ph.D.-project is to improve the modelling of the turnover of organic matter in soil. The project will give special focus to: <ol style="list-style-type: none"> 1) Good representations of the effects of climate, management and texture 2) Contributions to the modeling of the turnover of nitrogen in grazed pastures 3) Contributions to establishing a modeling framework (FASSET), in order to make improved assessments of the leaching from conventional and organic farms.

PhD-student	Chris Kjeldsen
Title of project	Organic food networks and sustainable development
Supervisors	Associate professor Jan Holm Ingemann, Aalborg University Associate professor Erik Christensen, Aalborg University
University	Aalborg University
Working place	Institute for Economics, Politics and Public Planning, Aalborg University
E-mail	ckj@socsci.auc.dk / 9635 7148
Aim	The research task in this project takes its departure in the need for developing sustainable organic food networks. Of particular interest in that regard is the growth in alternative organic food networks and their potential for providing sustainable solutions to the problems of the conventional food networks. The initial research question in the project is therefore, whether the Danish alternative organic food networks develop towards a convergence to conventional structures or whether they form a sustainable alternative to conventional food networks?
Defence	11.04.2005

PhD-student	Christina Elslund Adamsen
Title of project	Organic meat processing – an alternative to nitrite curing of meat
Supervisors	Professor, Leif H. Skibsted, KVL Assistant professor Jens K.S. Møller, KVL
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University
E-mail / phone	cep@kvl.dk / 3528 3290
Aim	The aim of the project is to find an alternative to nitrite curing of meat and the inspiration will be taken from the colour of Parma ham.

PhD-student	Christine Fossing
Title of project	Application of alternative medicine in organic dairy herds with special emphasis on the effect of veterinary homeopathy on udder health
Supervisors	Senior scientist Mette Vaarst, DIAS Professor Stig Milan Thamsborg, KVL
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Dept. of Animal Health and Welfare
E-mail / phone	Christine.Fossing@agrsci.dk / 89 99 13 33
Aim	The aim of the project is to assess how the use of alternative treatment types in organic dairy cattle herds affects the udder health on individual and herd level. The relationship between the individual cattle farmer's choice of therapy and the relationship between therapy and management strategy will be examined. The individual cattle farmer's need for decision support when using alternative treatment will be analyzed.

PhD-student	Dorthe Elle Ilsøe
Title of project	Consumer demands on organic food products
Supervisors	Associate professor Birgit Land, RUC Associate professor Erling Jelsøe, RUC
University	Roskilde University Center
Working place	Department of Environment, Technology and Social Studies, Roskilde University,
E-mail / phone	dilsoee@teksam.ruc.dk / 4674 2048
Aim	The starting point of the project is the development of the organic food sector and the actual stagnation in the market. The project aims at illustrating the consumer demands and discuss the future development of the sector. The project is carried out in cooperation with the Technical University of Denmark and the Danish Consumer Council, and will investigate the consumers' reflections, demands and wishes regarding organic production of food.

PhD-student	Gregor Levin
Title of project	Landscape changes under ecological farming
Supervisors	Professor Jesper Brandt, RUC Senior scientist Pia Frederiksen, DMU
University	Roskilde University Center
Working place	National Environmental Research Institute (DMU), Department of Policy Analysis,
E-mail	gl@dmu.dk / 4630 1822
Aim	The aim of the project is to investigate if organic farming strategies have a positive effect on landscapes' nature content, compared to conventional farming methods. Furthermore, underlying driving forces and processes for changes in nature content at landscape scale shall be examined.

PhD-student	Helena Mejer
Title of project	Management Practice and bioactive plans as a means of reducing parasite infections in organic swine production systems.
Supervisors	Associate professor Allan Roepstorff, KVL Professor Lis Eriksen, KVL
University	The Royal Veterinary and Agricultural University
Working place	The Danish Centre for Experimental Parasitology, The Royal Veterinary and Agricultural University,
E-mail / phone	hem@kvl.dk / 3528 2789
Aim	The aim of the project is to obtain information that will supplement our present knowledge on parasite infections in outdoor pigs and enable us to initiate work on guidelines on parasite control.

PhD-student	Jeanette Hyldal Vollmer
Title of project	Modeling development of disease complexes on barley cultivar mixtures under organic farming practice
Supervisors	Senior scientist Hanne Østergård, Risø National Laboratory Senior scientist Hans Pinnschmidt, DIAS Associate professor Lisa Munk, KVL
University	The Royal Veterinary and Agricultural University
Working place	Biosystems, Risø National Laboratory
E-mail / phone	jeanette.vollmer@risoe.dk / 4677 4135
Aim	The aim of the project is to study the population dynamics of two fungal pathogens, <i>Rhynchosporium secalis</i> and <i>Pyrenophora teres</i> , in variety mixtures of spring barley. The two fungal diseases are common in barley and their diseases (scald and leaf spot respectively) can have important implications on yield. The focus is on the disease complex, i.e. the simultaneous occurrence of the two species, rather than the species separately, aiming to describe their epidemiologies, as decided by mixture resistance, and to establish whether the relation between the two species is antagonistic, neutral or synergistic.
PhD-student	Jim Rasmussen
Title of project	Below ground C and N transformation processes in perennial grass-clover mixtures with impact on the farming system and the environment
Supervisors	Associate professor Henning Høgh Jensen, KVL Senior scientist Erik Steen Jensen, Risø National Laboratory Senior scientist Jørgen Eriksen, DIAS
University	The Royal Veterinary and Agricultural University
Working place	Agricultural Sciences, The Royal Veterinary and Agricultural University
E-mail / phone	jjr@kvl.dk / 3528 3520
Aim	The major objective of the project is to investigate the C- and N dynamics in grass-clover mixtures in order to improve simulationmodels in this area. Investigations will focus on <ol style="list-style-type: none"> 1. the life span, transformation and rhizodeposition of the roots of clover and grass 2. competition between clover and grass in real life cropped fields with uneven distribution of cow manure 3. the influence of the spatial variability observed (point 2) on the overall C- and N-balance and the leaching of nitrate and dissolved organic matter

PhD-student	Kamma Westergaard
Title of project	Landscape and agricultural practice of Danish farms - does organic farming make a difference?
Supervisors	Associate professor Henrik Vejre, KVL Associate professor Vibeke Langer, KVL
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University, Dept. Economics and Natural Resource Management
E-mail / phone	kaw@kvl.dk / 3528 2635
Aim	The aims are: 1. To investigate the landscape of Danish farms and evaluate the differences according to geomorphic region and farm type (organic versus conventional and dairy versus crop producers). 2. To describe the field management practice of these farm types, and based on ecological theory discuss whether the organic farms live up to their principal guidelines.
PhD-student	Kirstine Flintholm Jørgensen
Title of project	The importance of nutritional factors and the physiological background for the development of liver abscesses in veal calves and young bulls - perspectives for organic beef production
Supervisors	Senior scientist Mogens Vestergaard, DIAS Associate professor Peder Nørgaard, KVL
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Animal Nutrition and Physiology
E-mail / phone	Kirstine.Jorgensen@agrsci.dk / 8999 1395
Aim	The aim of the project is to investigate physiological changes in rumen of veal calves and young bulls under different feeding regimes, to see how the different feeds influence the rumen epithelia, nutrient transport mechanisms, and the liver function. The objectives of these investigations are to establish some of the mechanisms of importance for penetration of pathogenic bacteria through the epithelia with an increased risk of liver abscesses.

PhD-student	Klaus Horsted
Title of project	Strategies for increased foraging in organic layers
Supervisors	Associate professor Hans Ranvig, KVL Head of Research Unit John E. Hermansen, DIAS Senior Scientist Sanna Steinfeldt, DIAS
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Department of Agroecology
E-mail / phone	Klaus.Horsted@agrsci.dk / 8999 1286
Aim	The major aim of this project is to provide better knowledge about the potential for natural foraging of laying hens in relation to the development of new systems in organic poultry production.
PhD-student	Lene Hegelund
Title of project	Control systems in organic egg production, focusing on animal welfare and food security
Supervisors	Associate professor Hans Ranvig, KVL Head of research unit Jan Tind Sørensen, DIAS
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Animal Health and Welfare
E-mail / phone	Lene.Hegelund@agrsci.dk / 8999 1523
Aim	The aim of the project is to develop a management tool for organic egg producers using the HACCP-concept, thereby securing animal health and welfare at the farms and accounting for food security.
PhD-student	Maj-Britt Quitzau
Title of project	Cultural barriers and potentials for recycling of human town-waste
Supervisors	Senior lecturer Inge Røpke, DTU Senior scientist Pernille Kaltoft, NERI / DMU
University	Technical University of Denmark
Working place	National Environmental Research Institute, NERI / DMU, Department of Policy Analysis, Environmental Sociology Group
E-mail / phone	mbq@dmu.dk / 4630 1365
Aim	The general purpose of this project is to understand the cultural barriers and potentials for getting a substantial increase in recycling of human town-waste from town to farming land in relation to both ecological farmers who shall utilize the town-waste and the citizens who shall have a changed way of handling black wastewater and take the agricultural products.

PhD-student	Martin Nørregaard Hansen
Title of project	Technology for reduction of environmental impact and loss of nitrogen from solid manure
Supervisors	Senior lecturer Kaj Henriksen, University of Aalborg Senior scientist Sven G. Sommer, DIAS
University	Aalborg University
Working place	Danish Institute of Agricultural Sciences, Research Center Bygholm, Department of Agricultural Engineering
E-mail / phone	MartinN.Hansen@agrsci.dk / 7629 6036
Aim	Investigation and development of technology to reduce loss of nutrients and environmental impact of straw bedded housing systems.

PhD-student	Merete Møller Nielsen
Title of project	Content and stability of vitamin E in organic milled wheat and spelt
Supervisors	Associate professor Åse Solveig Hansen, Food Science (KVL)
University	The Royal Veterinary and Agricultural University
Working place	Food Science, The Royal Veterinary and Agricultural University
E-mail / phone	mhn@kvl.dk / 3528 3507
Aim	The main objective for this PhD project is to determinate the content of vitamin E in different organic wheat and spelt products. Partial aims of this project: <ul style="list-style-type: none"> • Content of vitamin E in organic flour depending on the type of grinding • Stability of vitamin E in different flour types during storage • Influence of baking methods on the content of vitamin E in bread • Determination of shelf life of different organic flour types and relation to bread quality

PhD-student	Mette Klindt Andersen
Title of project	Competition and complementarity between intercropped barley, rape and fieldpea in ecological cropping systems – the role of plant available nitrogen and sulphur as well as cropping design.
Supervisors	Associate professor Henning Høgh Jensen, KVL Senior scientist Erik Steen Jensen, Risø Professor Jacob Weiner, KVL
University	The Royal Veterinary and Agricultural University
Working place	Biosystems, Risø National Laboratory
E-mail	mka@kvl.dk / 46774157
Aim	The project is aimed at increasing our understanding of the link between the degree of diversity of an intercrop, its resource use and productivity, and thereby shedding light on how competitive and complementary dynamics of intercrops are affected by sowing density, sowing pattern and the relative quantitative relations between component crops.

PhD-student	Mette Sustmann Carter
Title of project	Production of N ₂ O in grass-clover pastures
Supervisors	Senior scientist Per Ambus, Risø National Laboratory Associate professor Henning Høgh Jensen, KVL
University	The Royal Veterinary and Agricultural University
Working place	Biosystems, Risø National Laboratory
E-mail / phone	mette.sustmann.carter@risoe.dk / 4677 4151
Aim	The aim of the Ph.D.-project is to increase the knowledge of the biological and physical-chemical mechanisms, which control the production of N ₂ O in grazed grass-clover pastures. Such knowledge is a necessity for a complete environmental evaluation of organic farming practices.

PhD-student	Mette Weinreich Hansen
Title of project	Empowerment of organic enterprises - values, identity and learning in food processing
Supervisors	Associate professor Niels Heine Kristensen, DTU
University	Technical University of Denmark
Working place	Technical University of Denmark, Department of Manufacturing Engineering and Management, Innovation and Sustainability, Bygning 303, 2800 Kgs. Lyngby
E-mail / phone	mwh@ipl.dtu.dk / 4525 6018
Aim	The aim of the project is to bring the discussion on values, which has so far mainly existed in the primary production, into the organic food processing enterprises. The discussion on processing principles, values and identity will take place in a dialogue with the processing enterprises.

PhD-student	Natalia Bellostas Mugerza
Title of project	Control of soil-borne diseases by the bio-fumigation effect of <i>Brassicac</i> s
Supervisors	Docent Hilmer Sørensen, KVL Senior scientist Erik Steen Jensen, Risø National Laboratory
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University
E-mail / phone	nabm@kvl.dk / 3528 3552
Aim	This PhD project is aimed at the achievement of knowledge on the processes involved in the biofumigation potential of Brassicas. Its overall approach is to study the glucosinolates produced by the Brassica plant, the glucosinolate-hydrolysis products and the effect of these compounds on soil-borne pathogens.

PhD-student	Nicoline Maag Eigaard
Title of project	Investigation on mortality and interactions of selected diseases in free-range chickens
Supervisors	Associate professor Anders Permin, Lundbeck A/S Associate research professor Jens Peter Christensen, KVL
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University, Dept. Veterinary Microbiology
E-mail / phone	nme@kvl.dk / 3528 2704
Aim	The aims of the present project are to improve welfare of poultry under free-range conditions by investigating the occurrence of diseases, their interaction and significance in free-range table egg production systems and to elucidate the possible relationship between disease prevalence and production systems and on this basis develop strategies to improve the disease prophylaxis in free-range poultry production systems.

PhD-student	Paul Rye Kledal
Title of project	Future supply and marketing strategies in the Danish organic food sector
Supervisors	Professor Kostas Karantinis, KVL Senior scientist Mogens Lund, KVL
University	The Royal Veterinary and Agricultural University
Working place	Danish Research Institute of Food Economics (KVL), Farm Management and Production Systems Division
E-mail / phone	paul@foi.dk / 3528 6875
Aim	The objective of this research project is to analyse the future development of the Danish organic food sector, with organic pork and organic vegetables as case studies. By linking the research results of the economic and production dynamics within the organic food chains together with the various social movements that are at stake in the consumption of organic food, the aim is to identify and explain the diversification of the organic chain and provide with useful supply strategies for further growth in a ten year perspective.
PhD-student	Preben Klarskov Hansen
Title of project	Crop-Weed interactions determined by sensor techniques
Supervisors	Associate Professor Christian Andreasen, KVL Head of Research Unit Niels Holst, DIAS Senior Scientist Henning Tangen Sogaard, DIAS
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Department of Crop Protection
E-mail / phone	PrebenK.Hansen@agrsci.dk / 5811 3397
Aim	The central aim of the PhD project, COMSENS, is to provide new knowledge about competition between crop and weeds, aiming at predicting the outcome of the competition (the reduction of the crop yield) with a certainty, which equals the prediction from the relative leaf area model.

PhD-student	Thomas Larsen
Title of project	Soil ecological studies of decomposition of urban fertilisers
Supervisors	Associate professor Jakob Magid, KVL Senior scientist Paul Henning Krogh, DMU
University	The Royal Veterinary and Agricultural University
Working place	National Environmental Research Institute (DMU), Department of Terrestrial Ecology
E-mail / phone	thl@dmu.dk / 8920 1572
Aim	This study will investigate the impact of fertilizers made of kitchen organic waste (urban fertilizers) on agricultural soil with the following objectives: <ul style="list-style-type: none"> • To quantify the temporal course in the decomposition of the fertilizers in agricultural soils using C & N fluxes and mass loss. • To determine the quantitative contribution from the trophic levels in the food-chain • To investigate the temporal course in the contribution of the trophic levels with an emphasis on the role of microarthropods.
PhD-student	Tina Lund-Nielsen
Title of project	Production of high quality organic milk considering the future demands for use of organically produced feed and natural vitamins
Supervisors	Professor, Leif H. Skibsted, KVL Senior scientist, Jacob Holm Nielsen, DIAS
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Department of Food Science
E-mail / phone	Tina.lund-nielsen@agrsci.dk / 8999 1248
Aim	The aim of the project is to elucidate the consequences of the new regulation for organic feeding and what effect the addition of natural vitamins and antioxidants to the feed has on the oxidative stability of milk. How the supply of selenium from the cow and the production of endogenous antioxidants (uric acid) can be increased, will also be examined.

PhD students graduated from SOAR

PhD-student	Bea Nielsen
Title of project	Organic beef production based on dairy breed bull calves
Supervisors	Professor Stig Milan Thamsborg, KVL Head of Research Unit John Hermansen, DIAS
University	The Royal Veterinary and Agricultural University
Working place	The Royal Veterinary and Agricultural University, Department of Animal Science and Animal Health
E-mail / phone	b.nielsen@norfeed.dk
Aim	The aim of the project was to describe and develop production systems of organic beef based on bull calves from organic dairy farms. The project includes analysis of constraining factors and possibilities by means of questionnaires (1), feeding experiments on ryegrass /white clover pastures concerning performance in calves following turn-out (2) and herbage intake in steers (3+4) and modeling of production strategies in organic steer production based on recordings on organic farms (5+6).
Graduated	03.06.2003
Employment	Norfeed
PhD-student	Dorte Bodin Dresbøll
Title of project	Optimization of growing media for organic greenhouse production.
Supervisors	Senior scientist Kristian Thorup-Kristensen, DIAS Associate professor Jakob Magid, KVL
University	The Royal Veterinary and Agricultural University
Working place	Danish Institute of Agricultural Sciences, Department of Horticulture
E-mail / phone	dorte.dresboll@agrsci.dk / 6390 4136
Aim	The objectives were: <ol style="list-style-type: none"> 1) To extend the knowledge of changes in plant material structure during com-posting. 2) To examine the nutrient transformation – mineralization, immobilization, leaching and gaseous emissions in different types of compost. 3) To produce stable compost which in combination with amendments of plant residues can be a suitable growing media and fertilizer for organic greenhouse production.
Graduated	13.12.2004
Employment	Danish Institute of Agricultural Sciences, Department of Horticulture

The Key Supervisors

The key supervisors in SOAR have been organized in two lists:

List A. - key supervisors with PhD students in SOAR

List B. - key supervisors with experience from research in organic farming and food production but without SOAR students.

The distribution among themes and list A and B is as follows:

	List A	List B
Theme 1	14	17
Theme 2	9	5
Theme 3	9	9

List A. - key supervisors with PhD students in SOAR

Theme 1: Organic crop production, nature quality and resource management

Name	Address	PhD students in SOAR
Per Ambus Senior scientist	Biosystems Risø National Laboratory E-mail: per.ambus@risoe.dk ph: 4677 4152	Mette Carter
Henning Høgh Jensen Associate professor	Department of Agricultural Sciences, KVL E-mail: hhj@kvl.dk ph: 3528 3391	Ahmed El-Naggar Mette Klindt Andersen Mette Carter Jim Rasmussen
Erik Steen Jensen Senior scientist	Biosystems Risø National Laboratory	Kamma Westergaard Mette Klindt Andersen
Lars Stoumann Jensen Associate professor	Department of Agricultural Sciences, KVL E-mail: lsj@kvl.dk ph: 3528 3470	Anders Pedersen
Jørgen E. Olesen Senior scientist	Department of Crop Physiology and Soil Science, DIAS E-mail: JorgenE.Olesen@agrsci.dk ph: 8999 1659	Bjørn Molt Petersen
John R. Porter Professor	Department of Agricultural Sciences, KVL E-mail: jrp@kvl.dk ph: 4637 3395	Bjørn Molt Petersen

Svend Gjedde Sommer Senior scientist	Department of Agricultural Engineering, DIAS E-mail: SvenG.Sommer@agrsci.dk ph: 7629 6063	Martin Nørregaard Hansen
Kristian Thorup-Kristensen Head of research unit	Department of Horticulture, DIAS E-mail: Kristian.ThorupKristensen@agrsci.dk ph: 6390 4128	Anders Pedersen
Henrik Vejre Associate professor	Department of Economics and Natural Resources, KVL E-mail: hv@kvl.dk ph. 3528 2211	Kamma Westergaard
Vibeke Langer Associate professor	Department of Agricultural Sciences, KVL E-mail: vl@kvl.dk ph: 3528 2383	Kamma Westergaard
Kaj Henriksen Associate professor	Department of Environmental Engineering, Aalborg University E-mail: i5kh@civil.auc.dk ph: 96 35 85 10	Martin Nørregaard Hansen
Jakob Magid Associate professor	Department of Agricultural Sciences, KVL E-mail: jma@kvl.dk ph. 3528 3491	Thomas Larsen
Hanne Østergaard Senior Research Specialist	Biosystems, Risø E-mail: hanne.oestergaard@risoe.dk ph: 4677 4111	Jeanette Hyldal Vollmer

Theme 2: Organic livestock production and health

Name	Address	PhD students in SOAR
Anders Dalsgaard Associate professor	Department of Veterinary Microbiology, KVL E-mail: ad@kvl.dk ph: 3528 2720	Annette Nygaard Jensen
John E. Hermansen Head of research unit	Department of Agricultural Systems, DIAS John.Hermansen@agrsci.dk ph: 8999 1236	Klaus Horsted

Hans Ranvig Associate professor	Department of Production Animals and Horses, KVL Grønnegårdsvej 2 1870 Frederiksberg C E-mail: har@kvl.dk ph: 3528 3090	Klaus Horsted Lene Hegelund
Allan Roepstroff Associate professor	Center for Experimental Parasitologi KVL aro@kvl.dk ph: 3528 2746	Helena Mejer
Jan Tind Sørensen Head of research unit	Department of Animal Health and Welfare, DIAS E-mail: JanTind.Sorensen@agrsci.dk ph: 8999 1343	Lene Hegelund
Stig Milan Thamsborg Professor	Department of Veterinary Microbiology, KVL E-mail: smt@kvl.dk ph: 3528 3778	Christine Fossing
Mette Vaarst Senior scientist	Department of Animal Health and Welfare, DIAS Mette.Vaarst@agrsci.dk ph: 8999 1344	Christine Fossing
Lis Eriksen Professor	Department of Clinical Studies, KVL E-mail: lis@kvl.dk ph: 3528 2839	Helena Mejer

Theme 3: Organic agriculture, food production and society

Name	Address	PhD students in SOAR
Jesper Brandt Professor	RUC Dept. of Geography and International Development Studies E-mail: brandt@ruc.dk ph: 4674 2463	Gregor Levin
Pia Frederiksen Senior scientist	DMU Postboks 358 Frederiksborgvej 399 4000 Roskilde E-mail: PFR@dmu.dk ph: 46301207	Gregor Levin

Jan Holm Ingemann Associate professor	AUC Agricultural Economics Fibrigerstæde 1 9220 Aalborg Øst E-mail: ingemann@socsci.auc.dk ph.: 9635 8185	Chris Kjeldsen
Erling Jelsø Associate professor	Department of Environment, Technology and Social Studies, RUC E-mail: ej@ruc.dk ph: 4674 2049	Dorthe Ilsøe
Pernille Kaltoft Senior scientist	Department of Policy Analysis, DMU E-mail: pka@dmu.dk ph.: 4630 1823	Maj-Britt Quitzau
Kostas Karantininis Associate professor	Danish Research Institute of Food Economics, KVL E-mail: kok@kvl.dk ph: 3528 2276	Paul Rye Kledal
Niels Heine Kristensen Associate professor	Department of Manufacturing Engineering and Management, DTU E-mail: nhk@ipl.dtu.dk ph: 4525 6021	Mette Weinreich Hansen
Birgit Land Associate professor	Department of Environment, Technology and Social Studies, RUC E-mail: bl@ruc.dk ph: 4674 2702	Dorthe Elle Ilsøe
Leif Skibsted Professor	Department of Dairy and Food Science, KVL E-mail: ls@kvl.dk ph: 3528 3221	Christina Elslund Adamsen Tina Lund-Nielsen