Seminar on Organic Farming Research in Europe

“How to facilitate the development of transnational co-operation in research in Organic Farming by member and associated states”

Brussels, 24-25 September 2002

 Consolidated report summarising individual contributions

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Index

Introduction ................................................................. 2
Current research activities ........................................... 2
Funding of OF research by individual countries .................. 6
Main research centres carrying out research in OF .......... 8
Affect on policy at National level .................................... 9
Scope for co-operation at European level ....................... 9

Annex I: List of projects and main institutes and researchers

Annex II: Individual contributions
Status quo of Organic Farming research in Switzerland

Urs Niggli17, Padruot M. Fried18

Introduction

Switzerland has been leading in organic farming research for more than 70 years. The first research work started in 1930 by the privately financed biological laboratory at the Goetheanum in Dornach (CH), first by Ehrenfried Pfeiffer and then by Lilly Kolisko. The activities of the Goetheanum have been focused exclusively on biodynamic aspects of organic farming from then on up to today. In 1973, scientifically focused research work started at the Research Institute of Organic Agriculture (FiBL). Several small institutes, permanent working groups and breeders started activities in different fields of research in the 1980’s and promoted biodynamic research (e.g. holistic quality assessment, biodynamic plant breeding). The Swiss Federal Institute of Technology (ETH) Zurich and the Federal Research Station for Agricultural Economics and Engineering (FAT) became leading in the 80’s in all aspects of animal welfare and ethology. In 2001, the Swiss Federal Research Station for Agroecology and Agriculture (FAL) came in with organic farming research in arable crops, grassland management, crop breeding and landscaping. FiBL and FAL have conducted a long-term experiment (DOK trial) since 1978.

Current and planned research activities in organic farming

Switzerland wants to promote research in all fields of organic farming:

- Crop production (arable crops, grassland, and horticultural crops) in breeding, variety testing, production technique, plant protection and quality improvement.
- Animal husbandry (small and big ruminants, poultry, pigs and bees) in breeding, free-range systems, feeding and housing.
- Animal health (ruminants, poultry and pigs) focusing on herd management, prevention, biocontrol and complementary medicine.
- Socio-economics focusing on farm management and economics, markets and consumers, policy assessment and sociological studies.
- Biodiversity and landscape improvements.
- Processing methods and technical procedures esp. milk and other produce.

The major state funding for organic farming research is granted by:

- Federal Office for Agriculture: 4 to 5 million € per annum, increasing from 2004 on (start of the new research programme of the 6 federal research stations and of FiBL).
- Federal Veterinary Office: 350,000 € per annum.
- Federal Office for Education and Science (funding Swiss partners participating at EU-activities): 500,000 €.

17 Research Institute of Organic Agriculture (FiBL), CH-5070 Frick
18 Swiss Federal Research Station for Agroecology and Agriculture, CH-8046 Zurich

88
• Different other federal and regional authorities: 500,000 € per annum.

It can be estimated that approximately 5 to 6 million € - per annum - are presently allocated very specifically to organic farming research from public budgets. In addition, much research work at the agricultural research stations is done both in Integrated Production and Organic Farming systems.

**Main research centres in organic farming**

**Research Institute of Organic Farming (FiBL)** since 1973. Overall budget in research and knowledge transfer for organic farming: 7.5 Million €: 85 scientific and technical staff. Director: Dr. Urs Niggli. Branch offices in Germany (FiBL Berlin and FiBL Frankfurt). Leading scientists see http://www.fibl.ch/buehne/fibl/team-a-z.html.

**Swiss Federal Research Station for Agroecology and Agriculture**, CH-8046 Zurich. Research focus in organic arable crops and grassland in evolution. Contact person: Dr. Padruot M. Fried, Head Department for Production Systems.

For more information on the activities of FAL und of the 5 other Swiss Federal Research Stations see http://www.sar.admin.ch.

**Specialised bio-dynamic research activities:**

• Agricultural Department of the Goetheanum: http://www.goetheanum.ch
• Research Institute for Vital Quality, Dr Ursula R. Graf http://www.fiv.ch
• Cereal Breeding Group of Peter Kunz, http://www.peter-kunz.ch

**Co-ordination of national programmes at a European level**

**General remarks**

The level of organic farming research is extremely different among European countries. Joint activities at European scale will give important and immediate impacts to those countries started only recently with organic farming research.

During the last 2 decades, organic farming has succeeded in reaching an optimum of productivity, professionalism and quality (of environment and food) as it is inherent to the original concept and as it has been improved by on-farm-research. Nonetheless, several severe problems in production have remained unsolved for years and new problems have arisen with the expansion of organic farming and the diversity of production fields. This new situation cannot be tackled with surveys and on-farm R&D. It must be complemented with in-depth experimental research and with new approaches and methods. This cannot be done successfully without synergies on a European level and without a common understanding of how organic farming should be developed further.

**Fields of research where joint efforts at European level are especially important:**

• Crop breeding programmes (with global methods/techniques/concepts and local adaptation)
• Animal breeding programmes (ditto)
• Animal health research focussing on herd management, prevention and complementary therapy)
• Disease control strategies
• Pest control strategies especially in the Southern part of Europe
• Novel techniques of weed control ("weed roboters" with sensors and GPS or biocontrol techniques)
• Securing strategies for the crop, feed stuff and animal food supply chain.
• Health studies on product quality and diet.

Furthermore, communication, exchange of researchers, data supply and availability of research results have to be improved by appropriate services and schemes.

Leading scientists carrying out research on organic farming

Alföldi, Thomas
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail thomas.alfoeldi@fibl.ch, Homepage http://www.fibl.ch

Arncken-Karutz, Christine
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail christine.arncken@fibl.ch, Homepage http://www.fibl.ch

Basler, Dr. Pierre
Eidgenössische Forschungsanstalt für Obst-, Wein- und Gartenbau
Postfach 185, CH-8820 Wädenswil
Tel. 0041-1-7836257, Fax 0041-1-7836440
E-Mail Pierre.basler@faw.admin.ch, Homepage

Bapst, Beat
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail beat.bapst@fibl.ch, Homepage http://www.fibl.ch/

Berner, Fredy
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail fredy.berner@fibl.ch, Homepage http://www.fibl.ch/

Bill, Dr. Roland
Eidgenössische Forschungsanstalt für Obst-, Wein- und Gartenbau, CH-8820 Wädenswil

Daniel, Claudia
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail claudia.daniel@fibl.ch, Homepage http://www.fibl.ch/

Dubois, Dr. David
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail David.Dubois@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html

Fliexbach, Dr. Andreas
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail andreas.fliexbach@fibl.ch, Homepage http://www.fibl.ch/

Forrer, Dr. Hans-Rudolf
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail hansrudolf.forrer@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html

Fried, Dr. Padruot
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail Padruot.Fried@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html
Mäder, Dr. Paul
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail paul.maeder@fibl.ch, Homepage http://www.fibl.ch/

Maurer, Dr. Veronika
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail veronika.maurer@fibl.ch, Homepage http://www.fibl.ch

Mayer, Dr. Jochen
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01 - E-Mail jochen.mayer@fal.admin.ch,
Homepage http://www.admin.ch/sar/fal/falhomee.html

Menzi, Dr. Mathias
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail mathias.menzi@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html

Nentwig, Prof. Dr. Wolfgang
Zoologisches Institut, Universität Bern
Baltzerstr. 3, CH-3012 Bern
Tel. 031 631 45 20, Fax

Nowack, Karin
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail karin.nowack@fibl.ch, Homepage http://www.fibl.ch/

Niggli, Dr. Urs
FiBL, CH-5070 Frick
Tel. +41-62-865-72-72, Fax +41-62-8657273
E-Mail urs.niggli@fibl.ch, Homepage http://www.fibl.ch

Notz, Christophe
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail christophe.notz@fibl.ch, Homepage http://www.fibl.ch/

Oberholzer, Dr. Hans-Rudolf
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail hansrudolf.oberholzer@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html

Oberson, Dr. Astrid
Swiss Federal Institute of Technology,
Postfach 185, CH-8315 Lindau
Tel. +41-52-354 91 32, Fax +41-52-354 91 19
E-Mail astrid.oberson@ipw.agrl.ethz.ch, Homepage

Pfiffner, Lukas
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail lukas.pfiffner@fibl.ch, Homepage http://www.fibl.ch/

Richter, Dr. Toralf
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail toralf.richter@fibl.ch, Homepage http://www.fibl.ch

Rist, Dr. Michael
Johannes Kreyenbühl Akademie, zur Synergie von Natur- und Geisteswissenschaft
Im Boge 10, CH-8332 Russikon
Tel. 0041-1-9540513, Fax 0041-1-9540513
Schachermayer, Dr. Gabriele
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail gabriele.schachermayer@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html

Schmid, Andi
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail andi.schmid@fibl.ch, Homepage http://www.fibl.ch/

Schmid, Otto
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail otto.schmid@fibl.ch, Homepage http://www.fibl.ch

Speiser, Dr. Bernhard
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail bernhard.speiser@fibl.ch, Homepage http://www.fibl.ch/

Spengler-Neff, Anet
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail anet.spengler@fibl.ch, Homepage http://www.fibl.ch

Spranger, Dr. Jörg
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail joerg.spranger@fibl.ch, Homepage http://www.fibl.ch

Stolze, Dr. Mathias
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail matthias.stolze@fibl.ch, Homepage

Streit, Bernhard
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail bernhard.streit@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html

Tamm, Dr. Lucius
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail lucius.tamm@fibl.ch, Homepage http://www.fibl.ch/

Uehlinger, Gabi
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail gabi.uehlinger@fibl.ch, Homepage http://www.fibl.ch/

Walkenhorst, Michael
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail michael.walkenhorst@fibl.ch, Homepage http://www.fibl.ch/

Weibel, Dr. Franco
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail franco.weibel@fibl.ch, Homepage http://www.fibl.ch/

Willer, Dr. Helga
FiBL, CH-5070 Frick
Tel. 0041-62-8657272, Fax 0041-62-8657273
E-Mail helga.willer@fibl.ch, Homepage http://www.fibl.ch

Widmer, Dr. Franco
Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (FAL), Research Station for Agroecology and Agriculture
Reckenholzstrasse 191, CH-8046 Zürich
Tel. +41 1 377 71 11, Fax +41 1 377 72 01
E-Mail franco.widmer@fal.admin.ch, Homepage http://www.admin.ch/sar/fal/falhomee.html
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