

New strategies to improve grain legumes for food and feed

Start date:2004-02-10

End date:2008-02-09

Project Acronym:GRAIN LEGUMES

Project status:Completed

Coordinator

Organization name:JOHN INNES CENTRE

Contact person	Address
Name: Thomas Henry Noel ELLIS (Dr)	CROP GENETICS DEPARTMENT OF METABOLIC BIOLOGY Norwich Research Park, Colney NORWICH UNITED KINGDOM Region: EAST ANGLIA Norfolk
Tel: +44-1603450243	
Fax: +44-1603450045	
E-mail: Contact	
URL:	Organization Type:

Description

Objective: The EU faces the challenge of providing high quality protein for both animal and human consumption. Europe currently imports about 70% of its plant protein yet much of this could be derived from EU grown Grain Legumes. In the human diet Grain Legumes are beneficial and they provide an excellent source of high quality plant protein for animal feed. Furthermore, legume use in arable crop rotations reduces the need for fertiliser application and acts as a break-crop, reducing the need for pest and disease control. Together this is a unique combination of benefit to the environment. Nevertheless, grain legumes are underused by European farmers mainly because of yield inconsistency. Additionally there has been insufficient research into the effects of legume seed composition on the quality of animal feed. The GRAIN LEGUMES Integrated Project will mobilise and integrate European scientific research on grain legumes to solving these problems, by addressing the following objectives; i) To identify optimal parameters for legumes in feed quality and safety, including GMOs while using legumes to develop healthy and sustainable agriculture, ii) To investigate variation in grain legume seed composition and the factors affecting it. iii) To develop new genetic, genomic, post-genomic and bioinformatic tools to improve and sustain grain legume seed production and quality. To achieve these objectives the project will integrate an ambitious combination of approaches, including biochemistry, plant & crop physiology, agronomy, plant genomics & breeding, and animal nutritional studies. Particular emphasis will be placed upon the use of state-of-the-art methodologies including genomics and bioinformatics, together with transcriptomics and metabolomics.

Achievements:

General information:

Project Details

Start date:2004-02-10

End date:2008-02-09

Duration:48 months

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Project cost:25625272 EURO

Project Funding:14750955 EURO

Programme Acronym: [FP6-FOOD](#)

Programme type:Sixth Framework Programme

Subprogramme Area:New strategies to improve grain legumes for food and feed

Contract type:Integrated Project

URL:<http://www.eugrainlegumes.org>

Subject index:Agriculture, Food

Other Indexes:Farming,Feed,Genetics,Processing,Reverse Genetics,Seed Quality,Bioinformatics,Food,Nutrition

Other participants

Organization name:NIAB

Contact person	Address
Name: Donal O'SULLIVAN (Dr)	MOLECULAR RESEARCH GROUP Huntingdon Road CAMBRIDGE UNITED KINGDOM Region: EAST ANGLIA Cambridgeshire
Tel: +44-1223276381	
Fax: +44-1223277602	
E-mail: Contact	

URL:	Organization Type:
Organization name: UNIVERSIDAD PUBLICA DE NAVARRA	
Contact person	Address
Name: Cesar ARRESE-IGOR (Professor)	DEPARTAMENTO DE CIENCIAS DEL MEDIO NATURAL. GRUPO DE FISIOLOGIA VEGETAL Y AGROBIOLOGIA Avda. del Ejercito 2
Tel: +34-948169119	
Fax: +34-948168930	PAMPLONA ESPAÑA
E-mail: Contact	Region: NORESTE COMUNIDAD FORAL DE NAVARRA
URL:	Organization Type:
Organization name: CONFEDERACION ESPANOLA DE FABRICANTES DE ALIMENTOS COMPUESTOS PARA ANIMALES	
Contact person	Address
Name: Ricardo MIGUELAÑEZ (Mr)	TECHNICAL DEPARTMENT Diego de Leon, 54
Tel: +34-915633413	
Fax: +34-91561992	MADRID ESPAÑA
E-mail:	Region: COMUNIDAD DE MADRID
URL:	Organization Type: Industry
Organization name: CESKA ZEMEDELSKA UNIVERSZITA V PRAZE	
Contact person	Address
Name: Zdenek TOUSEK (Dr)	THE DEPARTMENT OF AGRICULTURAL ECONOMICS Kamycka 129
Tel: +420-224382052	
Fax: +420-224382052	PRAHA 6 - SUCHDOL CESKA REPUBLIKA
E-mail: Contact	Region:
URL:	Organization Type:
Organization name: INSTITUTE OF GRASSLAND AND ENVIRONMENTAL RESEARCH	
Contact person	Address
Name: Michael Terence ABBERTON (Dr)	LEGUME BREEDING AND GENETICS TEAM Plas Gogerddan
Tel: +1-970823180	
Fax: +1-970828357	ABERYSTWYTH UNITED KINGDOM
E-mail: Contact	Region: WALES CLWYD, DYFED, GWYNEDD, POWYS Dyfed
URL:	Organization Type:
Organization name: UNION NATIONALE INTERPROFESSIONNELLE DES PLANTES RICHES EN PROTEINES	
Contact person	Address
Name: Frédéric MUEL (Mr)	TECHNICAL DEPARTMENT Avenue Georges V 12
Tel: +33-140694907	
Fax: +33-147235872	PARIS FRANCE
E-mail: Contact	Region: ÎLE DE FRANCE Ile de France Paris
URL:	Organization Type: Other
Organization name: PLANT BREEDING AND ACCLIMATIZATION INSTITUTE	
Contact person	Address
Name: Lech BOROS (Dr)	PLANT BREEDING AND ACCLIMATIZATION INSTITUTE Strzeszynska, 36
Tel: +48-227252611	
Fax: +48-227254714	BLONDIE POLSKA
E-mail: Contact	Region:
URL:	Organization Type:
Organization name: AGROBIOINSTITUTE	
Contact person	Address

Name: Mariana VLAHOVA (Dr)	AGROBIOINSTITUTE Bul. Dragan Tzankov, 8
Tel: + 359-29635413	
Fax: + 359-29635408	SOFIA BULGARIA
E-mail: Contact	Region: YUGOZAPADEN Sofia stolitsa
URL:	Organization Type:

Organization name:UNIVERSITY OF ESSEX

Contact person	Address
Name: Phil MULLINEAUX (Professor)	BIOLOGICAL SCIENCES Wivenhoe Park
Tel: + 44-1206872118	
Fax: + 44-1206873885	COLCHESTER UNITED KINGDOM
E-mail: Contact	Region: SOUTH EAST (UK) ESSEX
URL: http://www.essex.ac.uk	Organization Type: Research

Organization name:SKRETTING AQUACULTURE RESEARCH CENTRE

Contact person	Address
Name: Wolfgang KOPPE (Dr)	NUTRITION PO Box 48 Sjohagen, 3
Tel: + 47-51825535	
Fax: + 47-51825501	STAVANGER NORGE
E-mail: Contact	Region: AGDER OG ROGALAND Rogaland
URL:	Organization Type:

Organization name:GENXPRO GMBH

Contact person	Address
Name: Peter WINTER (Dr)	GENXPOLAB Altenhoeferallee 3
Tel: + 49-6995739705	
Fax: + 49-6995739706	FRANKFURT/MAIN DEUTSCHLAND
E-mail:	Region:
URL: http://www.genxpro.de	Organization Type: Industry

Organization name:ALL RUSSIA RESEARCH INSTITUTE FOR AGRICULTURAL MICROBIOLOGY

Contact person	Address
Name: Alexey Yurievich BORISOV (Dr)	LABORATORY OF GENETICS OF PLANT-MICROBE INTERACTIONS Podbelsky Chaussee 3
Tel: + 7-812-4704392	
Fax: + 7-812-4704362/4392	ST. PETERSBURG Russian Federation
E-mail:	Region:
URL: http://www.arriam.spb.ru	Organization Type:

Organization name:KAFR EL-SHEIKH UNIVERSITY - FACULTY OF AGRICULTURE, DEPT. OF AGRICULTURAL BOTANY

Contact person	Address
Name: Amero EMERAN (Amero)	BRANCH OF PLANT PATHOLOGY/DEPT. OF AGRICULTURAL BOTANY/FACULTY OF AGRICULTURE, KAFR EL-SHEIKH U.
Tel: 2101131627	Faculty of Agriculture, Faculties Camp
Fax: + 20-473232032	
E-mail:	KAFR EL-SHEIKH EGYPT
URL:	Region:
	Organization Type:

Organization name:AN-NAJAH NATIONAL UNIVERSITY

Contact person	Address
-----------------------	----------------

Name: Munqez SHTAYA (Dr)	DEPARTMENT OF PLANT PRODUCTION AND PROTECTION/ FACULTY OF AGRICULTURE PO Box 7
Tel: +972-92675893	
Fax: +972-92675891	
E-mail: Contact	
URL: http://www.najah.edu	Organization Type:

Organization name:INSTITUT AGRONOMIQUE ET VETERINAIRE HASSAN II

Contact person	Address
Name: Mohammed SADIKIA (Professor)	LABORATORY OF GRAIN LEGUME GENETICS AND BREEDING
Tel: +212-37681315	PO Box 6202
Fax: +212-37681315	Rabat-Instituts
E-mail: Contact	RABAT
	MOROCCO
URL: http://www.iav.ac.ma	Region:
	Organization Type:

Organization name:INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE DE TUNISIE

Contact person	Address
Name: Mohamed KHARRAT (Dr)	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE DE TUNISIE/ FIELD CROP LABORATORY
Tel: +216-71230024241	Rue Hedi Karray S/N
Fax: +216-71752897	ARIANA
E-mail:	TUNISIA
URL:	Region:
	Organization Type:

Organization name:EMBRAPA - RECURSOS GENETICOS E BIOTECNOLOGIA

Contact person	Address
Name: Soraya Cristina De Macedo LEAL-BERTIOLI (Dr)	LABORATORIO DE PLANTAS - PRAGA III
Tel: +55-61-34484735	PO Box 02372
Fax: +55-61-34403658	Parque Estacao Ecologica Norte, Final Av W5 Norte
E-mail:	BRASILIA-DF
	BRAZIL
URL: http://www.cenargen.embrapa.br	Region:
	Organization Type:

Organization name:UNIVERSIDADE CATOLICA DE BRASILIA

Contact person	Address
Name: David John BERTIOLI (Dr)	BIOTECNOLOGIA E CIENCIAS GENOMICAS
Tel: +55-61-34484735	Universidade Catolica de Brasilia, Campus II, Biotecnologia e Ciencias Genomicas
Fax: +55-61-34403658	BRASILIA-DF
E-mail:	BRAZIL
URL: http://www.ucb.br	Region:
	Organization Type:

Organization name:SHANGHAI INSTITUTE FOR BIOLOGICAL SCIENCES

Contact person	Address
Name: Da LUO (Professor)	NATIONAL LABORATORY OF PLANTMOLECULAR GENETICS
Tel: +86-21-54924108	320 Yue Tang Road
Fax: +86-21-54924106	SHANGHAI
E-mail:	CHINA
URL: http://www.sibs.ac.cn	Region:
	Organization Type:

Organization name:CENTRE DE BIOTECHNOLOGIE - BORJ CEDRIA

Contact person	Address
-----------------------	----------------

Name: Mohamed Elarbi AOUANI (Professor)	LABORATOIRE INTERACTIONS LEGUMINEUSES MICROORGANISMES (LILM)
Tel: +216-71430855	PO Box 901
Fax: +216-71430934	Route Touristique, Borj Cedria
E-mail: Contact	HAMMAM LIF TUNISIA
URL: http://www.ecopark.rnrt.tn	Region:
	Organization Type:

Organization name: UNIVERSITY OF THE WITWATERSRAND	
Contact person	Address
Name: Ndiko Ndomelele LUDIDI (Dr)	SCHOOL OF MOLECULAR AND CELL BIOLOGY/ FACULTY OF SCIENCE/ UNIVERSITY OF THE WITWATERSRAND/LABORATORY
Tel: +27-117176366	Private Bag 3
Fax: +27-117176351	1 Jan Smuts Avenue, Braamfontein
E-mail: Contact	JOHANNESBURG SOUTH AFRICA
URL: http://www.wits.ac.za	Region:
	Organization Type:

Organization name: INSTITUTO DE TECNOLOGIA QUIMICA E BIOLOGICA	
Contact person	Address
Name: Maria Carlota VAZ PATO (Dr)	PLANT CELL BIOTECHNOLOGY
Tel: +351-214469461	PO Box 127
Fax: +351-214411277	Avenida de Republica, EAN
E-mail:	OEIRAS PORTUGAL
URL: http://www.itqb.unl.pt	Region: CONTINENTE LISBOA E VALE DO TEJO Peninsula de Setúbal
	Organization Type:

Organization name: TECHNICAL UNIVERSITY OF DENMARK	
Contact person	Address
Name: Erik Steen JENSEN (Dr)	RISØ NATIONAL LABORATORY, BIOSYSTEMS DEPARTMENT
Tel: +45-46774108	Anker Engelundsvej 1
Fax: +45-46774260	KGS. LYNGBY DANMARK
E-mail: Contact	Region: DANMARK Danmark Københavns amt
URL: http://www.dtu.dk	Organization Type:

Organization name: UNIVERSITY OF COPENHAGEN	
Contact person	Address
Name: Hilmer SOERENSEN (Mr)	CHEMISTRY DEPARTMENT, BIOCHEMISTRY & NATURAL PRODUCT GROUP
Tel: +45-35282432	Noerregade 10
Fax: +45-35282398	COPENHAGEN K DANMARK
E-mail: Contact	Region:
URL: http://www.ku.dk	Organization Type:

Organization name: STELLENBOSCH UNIVERSITY	
Contact person	Address
Name: Ndiko LUDIDI (Dr)	DEPARTMENT OF GENETICS, FACULTY OF AGRISCIENCES, STELLENBOSCH UNIVERSITY
Tel: +27-218083066	Private Bag XI
Fax: +27-218083835	Admin B Building, Room 3206, Victoria Street
E-mail: Contact	STELLENBOSCH SOUTH AFRICA
URL: http://www.sun.ac.za	Region:
	Organization Type:

Organization name: WAGENINGEN UNIVERSITEIT	
Contact person	Address

Name: Ton BISSELING (Professor)	DEPARTMENT OF PLANT SCIENCES, WAGENINGEN UNIVERSITY, LABORATORY OF MOLECULAR BIOLOGY PO Box 9101 Costerweg 50 WAGENINGEN NEDERLAND
Tel: +31-317-482036	
Fax: +31-317-483584	
E-mail: Contact	
URL:	Region: OOST-NEDERLAND GELDERLAND Arnhem/Nijmegen
	Organization Type:

Organization name:DEN KONGELIGE VETERINAER- OG LANDBOHOEJSKOLE

Contact person	Address
Name: Hilmer SOERENSEN (Mr)	CHEMISTRY DEPARTMENT, BIOCHEMISTRY & NATURAL PRODUCT GROUP Buelowsvej, 17
Tel: +45-35282432	FREDERIKSBERG C. DANMARK
Fax: +45-35282398	
E-mail: Contact	Region: DANMARK Danmark København og Frederiksberg Kommuner
URL:	Organization Type:

Organization name:UNIVERSITAET HANNOVER

Contact person	Address
Name: Franziska KRAJINSKI (Dr)	LEHRGEBIET MOLEKULARGENETIK Welfengarten 1
Tel: +49-5117625548	HANNOVER DEUTSCHLAND
Fax: +49-5117624088	
E-mail:	Region: NIEDERSACHSEN HANNOVER Hannover, Kreisfreie Stadt
URL:	Organization Type: Education

Organization name:GENOME RESEARCH LTD.

Contact person	Address
Name: Jane ROGERS (Dr)	THE WELLCOME TRUST SANGER INSTITUTE Euston Road 183
Tel: +44-1223494938	LONDON UNITED KINGDOM
Fax: +44-1223494969	
E-mail: Contact	Region: SOUTH EAST (UK) GREATER LONDON
URL:	Organization Type: Research

Organization name:THE AGRICULTURAL RESEARCH ORGANISATION OF ISRAEL - THE VOLCANI CENTRE

Contact person	Address
Name: Daniel M. JOEL (Dr)	PLANT PATHOLOGY AND WEED RESEARCH Derech Hamqabim
Tel: +972-49539529	BET DAGAN ISRAEL
Fax: +972-49836936	
E-mail: Contact	Region:
URL:	Organization Type:

Organization name:UNIVERSITY OF DUNDEE

Contact person	Address
Name: Andrew FLAVELL (Dr)	PLANT RESEARCH UNIT, UNIVERSITY OF DUNDEE AT SCRI Nethergate
Tel: +44-1382562731	DUNDEE UNITED KINGDOM
Fax: +44-1382568587	
E-mail: Contact	Region: SCOTLAND BORDERS-CENTRAL-FIFE-LOTHIAN-TAYSIDE Tayside
URL:	Organization Type:

Organization name:JOHANN WOLFGANG GOETHE UNIVERSITAET FRANKFURT AM MAIN

Contact person	Address
-----------------------	----------------

Name: Guenter KAHL (Professor)	INSTITUT FUER PFLANZLICHE MOLEKULARBIOLOGIE Postfach 11 19 32 Senckenberganlage 31 FRANKFURT AM-MAIN DEUTSCHLAND Region: HESSEN DARMSTADT Frankfurt am Main, Kreisfreie Stadt
Tel: 6979829267	
Fax: 6979829268	
E-mail: Contact	
URL:	Organization Type:
Organization name: UNIVERSITY OF READING	
Contact person	Address
Name: Bruce COTTRILL (Dr)	SCHOOL OF AGRICULTURE, POLICY AND DEVELOPMENT
Tel: +44-1902693216	PO Box 217
Fax: +44-1902693166	Whiteknights House, Whiteknights
E-mail: Contact	READING UNITED KINGDOM
URL:	Region: SOUTH EAST (UK) BERKSHIRE, BUCKINGHAMSHIRE, OXFORDSHIRE Berkshire
Organization Type:	
Organization name: UNIVERSIDAD DE SEVILLA	
Contact person	Address
Name: Manuel MEGIAS GUIJO (Dr)	MICROBIOLOGÍA Y PARASITOLOGÍA
Tel: +34-954556766	C/ San Fernando 4
Fax: +34-954628162	SEVILLA ESPAÑA
E-mail: Contact	Region: SUR ANDALUCIA Sevilla
URL:	Organization Type:
Organization name: UNIVERSITY OF YORK	
Contact person	Address
Name: Michael SCHULTZE (Dr)	DEPARTMENT OF BIOLOGY, UNIVERSITY OF YORK
Tel: +44-1904328690	PO Box 373
Fax: +44-1904328505	Heslington, York
E-mail: Contact	YORK UNITED KINGDOM
URL:	Region: YORKSHIRE AND HUMBERSIDE WEST YORKSHIRE
Organization Type:	
Organization name: GENOSCOPE C.N.S. / CONSORTIUM NATIONAL DE RECHERCHE EN GENOMIQUE	
Contact person	Address
Name: Francis QUETIER (Pr.)	GENOSCOPE-CNS
Tel: +33-160872517	Rue Gaston Cremieux 2
Fax: +33-160872514	EVRY FRANCE
E-mail: Contact	Region: ÎLE DE FRANCE Ile de France Essonne
URL:	Organization Type:
Organization name: UNIVERSITEIT GENT	
Contact person	Address
Name: Nancy TERRY (Dr)	DEPARTMENT OF MOLECULAR GENETICS/IPBO
Tel: +32-92645201	Sint Pietersnieuwstraat 25
Fax: +32-92648795	GENT BELGIQUE-BELGIË
E-mail: Contact	Region: VLAAMS GEWEST OOST-VLAANDEREN Gent (Arrondissement)
URL:	Organization Type:
Organization name: CONSIGLIO NAZIONALE DELLE RICERCHE	
Contact person	Address

Name: Sergio ARCIONI (Dr)	CNR - ISTITUTO DI GENETICA VEGETALE
Tel: +39-0755014853	Piazzale Aldo Moro 7
Fax: +39-0755014869	ROMA
E-mail:	ITALIA
URL:	Region: LAZIO Roma
	Organization Type:

Organization name: AARHUS UNIVERSITET	
Contact person	Address
Name: Jens STOUGAARD (Dr)	LABORATORY OF GENE EXPRESSION, DEPARTMENT OF MOLECULAR BIOLOGY,
Tel: +45-89425011	Nordre Ringgade 1
Fax: +45-86201222	AARHUS C
E-mail: Contact	DANMARK
URL:	Region: DANMARK Danmark Århus amt
	Organization Type:

Organization name: ASSOCIATION EUROPEENNE DE RECHERCHE SUR LES LEGUMINEUSES A GRAINES	
Contact person	Address
Name: Anne SCHNEIDER (Ms)	AEP EXECUTIVE SECRETARIAT
Tel: +33-140694909	Avenu George V, 12
Fax: +33-147235872	75008
E-mail: Contact	FRANCE
URL:	Region:
	Organization Type: Other

Organization name: INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	
Contact person	Address
Name: Jean DENARIE (Dr)	UMR INRA/CNRS LABORATOIRE DES INTERACTIONS PLANTES MICRO-ORGANISMES
Tel: +33-561285050	INRA UR 102 UNITE DE RECH. DE GENETIQUE ET D'AMELIORATION DES PLANTES URGAP DIJ-RICHARD
Fax: +33-561285459	THOMPSON
E-mail: Contact	147 Rue de l'Universite
URL:	PARIS
	FRANCE
	Region: ÎLE DE FRANCE Ile de France Paris
	Organization Type:

Organization name: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	
Contact person	Address
Name: Adam KONDOROSI (Dr)	CNRS - UPR2355 - INSTITUT DES SCIENCES DU VÉGÉTAL (ISV)
Tel: +33-169823696	UMR 5546 CNRS-UPS, PÔLE DE BIOTECHNOLOGIE VÉGÉTALE
Fax: +33-169823695	BP 287
E-mail: Contact	Rue Michel Ange 3
URL:	PARIS
	FRANCE
	Region: ÎLE DE FRANCE Ile de France Paris
	Organization Type:

Organization name: MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.	
Contact person	Address
Name: Mark STITT (Professor)	DEPT. 2 (PROF. M. SLITT) MAX PLANCK INSTITUTE OF MOLECULAR PLANT PHYSIOLOGY
Tel: +49-3315678210	JUNIOR RESEARCH GROUP 'MINERAL NUTRITION'. DR. MICHAEL UDVARDI
Fax: +49-3315678100	Postfach 101062
E-mail: Contact	Hofgartenstrasse 8
URL:	MUENCHEN
	DEUTSCHLAND
	Region: BAYERN OBERBAYERN München, Kreisfreie Stadt
	Organization Type:

Organization name: CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	
Contact person	Address

Name: Diego RUBIALES (Dr)	INSTITUTO DE AGRICULTURA SOSTENIBLE/ DEPARTAMENTO DE AGRONOMÍA Y MEJORA GENÉTICA INSTITUTO DE BIOLOGÍA MOLECULAR Y CELULAR DE PLANTAS Serrano 117
Tel: +34-957-499215	
Fax: +34-957-499252	
E-mail: Contact	
URL:	Region: COMUNIDAD DE MADRID
Organization Type:	
Organization name: UNIVERSIDAD DE CORDOBA	
Contact person	Address
Name: Cubero JOSE IGNACIO (Professor)	GENÉTICA
Tel: +34-957218504/03	BIOQUÍMICA / CAMPUS UNIVERSITARIO DE RABANALES C/ Alfonso XIII, 13
Fax: +34-957218503	CORDOBA ESPAÑA
E-mail: Contact	Region: SUR ANDALUCIA Cordoba
URL:	Organization Type:
Organization name: STICHTING INSTITUUT VOOR DE VEEVOEDING "DE SCHOTHORST"	
Contact person	Address
Name: Jan FLEDDERUS (Ir)	INSTITUUT VOOR DE VEEVOEDING "DE SCHOTHORST" Meerkoetenweg 26
Tel: +31-320252294	LELYSTAD NEDERLAND
Fax: +31-320255030	Region: OOST-NEDERLAND FLEVOLAND
E-mail: Contact	Organization Type:
URL:	
Organization name: INSTITUTO TECNOLÓGICO AGRARIO DE LA JUNTA DE CASTILLA Y LEON	
Contact person	Address
Name: Álvaro RAMOS MOREAL (Dr)	INSTITUTO TECNOLÓGICO AGRARIO DE CASTILLAY Y LEÓN UNIVERSIDAD DE LEÓN DEPARTAMENTO DE GENÉTICA Y MICROBIOLOGÍA PO Box 172 Centra de Burgos Km 118
Tel: +34-983414431	VALLADOLID ESPAÑA
Fax: +34-983414780	Region: CENTRO (E) CASTILLA Y LEÓN Valladolid
E-mail: Contact	Organization Type:
URL:	
Organization name: ASSOCIACAO DO INSTITUTO DE BIOLOGIA MOLECULAR E CELULAR	
Contact person	Address
Name: Helena CARVALHO (Dr)	STRUCTURAL AND MOLECULAR BIOLOGY CELL ADAPTATIVE MECHANISMS Rua do Campo Alegre 823
Tel: +351-226074900	PORTO PORTUGAL
Fax: +351-226099157	Region: CONTINENTE NORTE Grande Porto
E-mail: Contact	Organization Type:
URL:	
Organization name: ASOCIACION ESPANOLA DE LEGUMINOSAS	
Contact person	Address
Name: Celia DE LA CUADRA (Dr)	A.E.L HEADQUARTERS PO Box 1045
Tel: +34-918819286	ALCALA DE HENARES, MADRID ESPAÑA
Fax: +34-918819287	Region:
E-mail: Contact	Organization Type: Other
URL:	
Organization name: AGRICULTURAL BIOTECHNOLOGY CENTRE	
Contact person	Address

Name: Gyorgy Botond KISS (Dr)	INSTITUTE OF GENETICS, MEDICAGO GENETICS GROUP
Tel: +36-28526100	
Fax: +36-28526193	GODOLLO MAGYARORSZAG
E-mail: Contact	Region: KOZEP-MAGYARORSZAG Pest
URL:	Organization Type:
Organization name: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	
Contact person	Address
Name: Karam SINGH (Dr)	CSIRO, PLANT INDUSTRY, PLANT MOLECULAR BIOLOGY GROUP, PERTH ENTOMOLOGY, PERTH Limestone Avenue
Tel: +618-93336320	
Fax: +618-93878991	CAMPBELL AUSTRALIA
E-mail: Contact	Region:
URL:	Organization Type:
Organization name: ADAS UK LTD	
Contact person	Address
Name: Bruce COTTRILL (Dr)	ADAS HQ, WOLVERHAMPTON Woodthorne, Wergs Road
Tel: +1-902693216	
Fax: +1-902693166	WOLVERHAMPTON UNITED KINGDOM
E-mail: Contact	Region: WEST MIDLANDS
URL: http://www.adas.co.uk	Organization Type: Other
Organization name: GRAIN LEGUME TECHNOLOGY TRANSFER PLATFORM	
Contact person	Address
Name: Catherine GOLSTEIN (Dr)	GL-TTP 12 Avenue George V
Tel: +33-1-40694971	
Fax: +33-1-47235878	PARIS FRANCE
E-mail: Contact	Region: ÎLE DE FRANCE Ile de France Paris
URL: http://www.grainlegumes.com/gl-ttp	Organization Type: Other
Organization name: UNIVERSITAET BIELEFELD	
Contact person	Address
Name: Alfred PUEHLER (Professor)	BIOLOGIE VI (GENETIK), FAKULTAET FUER BIOLOGIE Postfach 100131 Universitaetsstrasse 25
Tel: +49-5211065607	
Fax: +49-5211065626	BIELEFELD DEUTSCHLAND
E-mail: Contact	Region: NORDRHEIN-WESTFALEN DETMOLD Bielefeld, Kreisfreie Stadt
URL:	Organization Type:
Organization name: BIOLOGICAL RESEARCH CENTER OF THE HUNGARIAN ACADEMY OF SCIENCES	
Contact person	Address
Name: Gabriella ENDRE (Dr)	INSTITUTE OF GENETICS, MEDICAGO GENETICS GROUP PO Box 521 Temesvari krt. 62
Tel: +36-62-599679	
Fax: +36-62-433503	SZEGED MAGYARORSZAG
E-mail: Contact	Region: DEL-ALFOLD Csongrad
URL:	Organization Type:
Organization name: ID-LELYSTAD, INSTITUUT VOOR DIERHOUDERIJ EN DIERGEZONDHEID B.V.	
Contact person	Address

Name: Alfons JANSMAN (Dr)	ID-LELYSTAD, INSTITUTE FOR ANIMAL SCIENCE AND HEALTH
Tel: +31-320237335	Edelhertweg 15
Fax: +31-320237320	LELYSTAD
E-mail: Contact	NEDERLAND
URL:	Region: OOST-NEDERLAND FLEVOLAND
Organization Type:	
Organization name: TECHNISCHE UNIVERSITAET MUENCHEN	
Contact person	Address
Name: Heiko SCHOOF (Dr)	LEHRSTUHL FÜR GENOMORIENTIERTE BIOINFORMATIK
Tel: +49-8161712131	Arcisstrasse 21
Fax: +49-8161712186	MUENCHEN
E-mail: Contact	DEUTSCHLAND
URL:	Region: BAYERN OBERBAYERN München, Kreisfreie Stadt
Organization Type:	
Organization name: FEDERAL RESEARCH STATION FOR AGROECOLOGY AND AGRICULTURE	
Contact person	Address
Name: Thomas NEMECEK (Dr)	ECOLOGICAL CONTROLLING / LIFE CYCLE ASSESSMENT
Tel: +41-13777254	Reckenholzstrasse 191
Fax: +41-13777201	ZURICH
E-mail: Contact	SCHWEIZ/SUISSE/SVIZZERA
URL:	Region: ZÜRICH Zürich
Organization Type:	
Organization name: FLANDERS INTERUNIVERSITY INSTITUTE FOR BIOTECHNOLOGY	
Contact person	Address
Name: Yves VAN DE PEER (Professor)	DEPT. OF PLANT SYSTEMS BIOLOGY - VIB
Tel: +32-9-3313807	Rijvisschestraat, 120
Fax: +32-9-3313809	ZWIJNAARDE
E-mail: Contact	BELGIE-BELGIË
URL:	Region: VLAAMS GEWEST OOST-VLAANDEREN Gent (Arrondissement)
Organization Type:	
Organization name: INSTITUT FUER PFLANZENGENETIK UND KULTURPFLANZENFORSCHUNG	
Contact person	Address
Name: Hans WEBER (Dr)	DEPARTMENT OF GENETICS
Tel: +49-394825208	Correnstrasse 3
Fax: +49-394825138	GATERSLEBEN
E-mail: Contact	DEUTSCHLAND
URL:	Region: SACHSEN-ANHALT MAGDEBURG Aschersleben-Staßfurt
Organization Type:	
Organization name: FORSKNINGSCENTER RISOE	
Contact person	Address
Name: Erik Steen JENSEN (Dr)	PLANT RESEARCH DEPARTMENT
Tel: +45-364774108	PO Box 49
Fax: +45-46774260	Frederiksborgvej 399
E-mail: Contact	ROSKILDE
URL:	DANMARK
URL:	Region: DANMARK Danmark Roskilde amt
Organization Type:	
Organization name: FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	
Contact person	Address

Name: Andreas WÄSCHE (Dr)	FRAUNHOFER-INSTITUT FÜR VERFAHRENSTECHNIK UND VERPACKUNG (IVV)
Tel: +49-8161-491415	Hansastraße 27C
Fax: +49-8161-491444	MÜNCHEN DEUTSCHLAND
E-mail: Contact	Region: BAYERN OBERBAYERN München, Kreisfreie Stadt
URL:	Organization Type:
Organization name: GRUPE ECOLE SUPERIEURE D'AGRICULTURE D'ANGERS	
Contact person	Address
Name: Alain BOURGEOIS (Professor)	LABORATOIRE D'ECOPHYSIOLOGIE VÉGÉTALE ET AGRONOMIE (LEVA)
Tel: +33-241235555	Rue Rabelais, 55
Fax: +33-241235565	ANGERS FRANCE
E-mail: Contact	Region: OUEST PAYS DE LA LOIRE Maine-et-Loire
URL:	Organization Type:
Organization name: PLANT RESEARCH INTERNATIONAL B.V.	
Contact person	Address
Name: Harro BOUWMEESTER (Professor)	PLANT RESEARCH INTERNATIONAL B.V. / BUSINESS UNIT BIOSCIENCE
Tel: +31-317475882	PO Box 16
Fax: +31-317418094	Droevendaalsesteeg 1
E-mail: Contact	WAGENINGEN NEDERLAND
URL:	Region: OOST-NEDERLAND GELDERLAND Arnhem/Nijmegen
URL:	Organization Type:
Organization name: INSTITUTET FOER LIVSMEDEL OCH BIOTEKNIK AB	
Contact person	Address
Name: Berit MATTSSON (Dr)	ENVIRONMENT AND PROCESS ENGINEERING
Tel: +46-313355600	PO Box 5401
Fax: +46-31833782	Frans Perssons Vaeg 6
E-mail: Contact	GOETEBORG SVERIGE
URL:	Region: SVERIGE VÄSTSVERIGE Göteborgs och Bohus län
URL:	Organization Type:
Organization name: INSTITUTE OF PLANT GENETICS - POLISH ACADEMY OF SCIENCES	
Contact person	Address
Name: Wojciech SWIECICKI (Professor)	INSTITUTE OF PLANT GENETICS, LABORATORY OF GENOME ANALYSIS
Tel: +48-61822112	Streszynska 34
Fax: +48-618233671	POZNAN POLSKA
E-mail: Contact	Region: WIELKOPOLSKIE M. Poznan
URL:	Organization Type:
Organization name: DEPARTMENT FOR ENVIRONEMENT, FOOD AND RURAL AFFAIRS	
Contact person	Address
Name: Sarah OEHLISCHLAGER (Dr)	FOOD SAFETY AND QUALITY GROUP
Tel: +44-01904462000	Nobel House, 17 Smith Square
Fax: +44-01904462111	LONDON UNITED KINGDOM
E-mail:	Region: SOUTH EAST (UK) GREATER LONDON
URL:	Organization Type:
Organization name: CENTRE D'ETUDE ET DE RECHERCHE SUR L'ECONOMIE ET L'ORGANISATION DES PRODUCTIONS ANIMALES	
Contact person	Address

Name: Frédéric PRESSEDA	CEREOPA - INA P-G
Tel: + 33-0144081805	Rue Claude Bernard, 16
Fax: + 33-0144081853	PARIS
E-mail: Contact	FRANCE
URL:	Region: ÎLE DE FRANCE Ile de France Paris
	Organization Type:
Organization name: UNIVERSITY OF MURDOCH	
Contact person	Address
Name:	CENTRE FOR NECTROTROPHIC FUNGAL PATHOGENS
Tel:	South Street 90
Fax:	MURDOCH
E-mail:	AUSTRALIA
URL:	Region:
	Organization Type:

Record control number: 74148