

BULLETIN No. 33

# EUCARPIA

EUROPEAN ASSOCIATION FOR RESEARCH ON PLANT BREEDING  
EUROPÄISCHE GESELLSCHAFT FÜR ZÜCHTUNGSFORSCHUNG  
ASSOCIATION EUROPÉENNE POUR L'AMÉLIORATION DES PLANTES

January 2006

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**EUCARPIA** aims to promote scientific and technical co-operation in the field of plant breeding in order to foster its further development. To achieve this purpose, the Association arranges and sponsors meetings of its members to discuss general or specific problems. Each year, **EUCARPIA** organizes open conferences and colloquia throughout Europe. Founded at Wageningen (The Netherlands) in 1956 as a non profit organization, **EUCARPIA** has made considerable contributions to improving international contacts in plant breeding research for almost fifty years. **EUCARPIA** has 10 sections and a number of working groups active in specific fields of interest.

**EUCARPIA** has individual members (scientists qualified in the field of plant breeding) and corporate members (research institutes, breeding stations, associations, societies etc.). A corporate membership is a collective membership for at most 10 persons.

<b>Membership fees*:</b>	individual members	€ 40.--
	individuals younger than 30 years or retired	€ 30.--
	corporate members	€ 300.--

\*Special reduced rates apply for members from some countries

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- UBS SA, CH-1260 Nyon 1, Switzerland (postal giro number PC 12-172-9) EUCARPIA account 228-EU100387.6
  - Caixa Catalunya (Off. 1122), Valencia, Spain, EUCARPIA account
- IBAN:** ES67 20131122080200199729 **BIC:** CESCESBBXXX

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# TABLE OF CONTENTS

	Page
Presidential Address	7
EUCARPIA Board and Executive Committee	10
EUCARPIA Sections and their Chairpersons	11
Section Reports	12
Section Potatoes	12
Section Cereals	12
Section Fodder Crops and Amenity Grasses	16
Section Biometrics in Plant Breeding	19
Section Genetic Resources	20
Section Maize and Sorghum	23
Section Vegetables	24
Section Fruit	25
Section Ornamentals	26
Section Oil and Protein Crops	30
Working Group Organic Plant Breeding	31
BIOEXPLOIT Project	32
News from the EUCARPIA Secretariat	36
Minutes of the Executive Committee Meeting	43
EUCARPIA Meeting Calendar for 2006 and Later	45
Meetings and Conferences of Related Organizations	48
Recent EUCARPIA Publications	49
EUCARPIA Membership Application Form	54

EUCARPIA Bulletin No. 33 (January 2006)



## **PRESIDENTIAL ADDRESS**

During this year EUCARPIA will celebrate its 50th Anniversary. Since the constitution of EUCARPIA in July 1956 there have been many developments in the techniques and methods used in plant breeding and breeders have achieved dramatic improvements in the productivity and quality of crop plants. During all these years EUCARPIA has made a relevant contribution to this progress by organizing Congresses, Meetings, Symposia and other events in which the scientific and technological novelties in the field of plant breeding have been presented, and which have served as a forum for establishing contacts, discussing, exchanging experiences, and also (and this is very important for the enhancement of the plant breeding work!) for transforming colleagues into friends.

Throughout the existence of EUCARPIA more than 250 publications, mainly corresponding to proceedings of scientific meetings, have been released. This represents a legacy of extremely high value for present and future plant breeders.

The celebration of the 50<sup>th</sup> anniversary is also a moment for reflection. We have many new challenges to address for the future, like developing new materials for increasing the crop production and quality for a human population that is increasing in number and in demands, while reducing the impact on the environment.

It is very difficult to foresee what the future of EUCARPIA will be in the next 50 years. At this respect, during the last decades not only there have been many scientific and technological changes that have affected the evolution of the science (and art) of plant breeding. At this respect, since the foundation of EUCARPIA there have been huge political changes in Europe, like the fall of the “iron curtain” that separated Eastern and Western Europe and the consolidation of the European Union, which have had a profound impact in the relationships between breeders of different countries. Also, the legislation on the utilization of genetic resources for plant breeding has suffered changes of great relevance for breeders, and the regulations for the use of GMO’s in agriculture is also another issue that breeders have to take in account in their work for developing new varieties.

Nowadays the circulation of information is easier and faster than ever and breeders also take advantage of it for making their work more efficient. In my view, in the future, the role of EUCARPIA will extend beyond the organization of scientific and technological events, which, despite the power of the information technologies, are necessary for the personal contact of breeders. Nowadays, many breeding works in Europe are becoming integrated into huge research projects with many partners, and EUCARPIA may have a role in the facilitation of the diffusion and transfer of information. In that way, EUCARPIA is already participating as a partner for the dissemination of information in an EU Framework Programme 6 integrated project.

Also, EUCARPIA is becoming more and more trans-continental; almost 12% of the members of EUCARPIA (compared to 7% in 2000) and almost 34% of the new EUCARPIA members of 2005 are based in countries outside Europe, which indicates that EUCARPIA is becoming increasingly attractive as a scientific society, not only for European breeders, but for breeders of all-around the globe.

Interactions with other scientific societies probably will intensify too; science is increasingly becoming more and more interdisciplinary, and plant breeding is no exception. Organization of joint meetings will lead to opening new doors for plant breeding activities.

In order to increase the attractiveness of EUCARPIA as well as its role in the promotion of plant breeding, EUCARPIA will have to increase the benefits that it offers to its members. In that way, we began in 2004 to offer some of the scientific journals of most interest to breeders at reduced rates to our members. During 2005 we have been able to negotiate a very good price for another journal of broad interest to breeders (*Genetic Resources and Crop Evolution*). We hope that in the future years we will be able to extend the privileges for EUCARPIA members.

In these days close to the 50<sup>th</sup> anniversary EUCARPIA grows strong and vigorous. During the last year, we got a record mark of 135 new members! Such a large number of new members had not been reached since the years following the constitution of EUCARPIA. This new and fresh blood will contribute to increase the strength and dynamism of EUCARPIA. At this respect, during this year EUCARPIA will organize seven section and working group meetings which surely will bring new developments and will boost plant breeding research.

During the last year I had the opportunity to attend two events organized by EUCARPIA: the Genetic Resources Meeting in Castelsardo (Italy) and the Tomato Working Group Meeting in Bari (Italy). In both events it was for me a pleasure to have first-hand access to new advances in these subjects and I could experiment with satisfaction the high scientific level of the results presented. Again I could also feel the special environment and friendship that characterizes the meetings of plant breeders. I invite you all to attend the meetings that will take place during 2006. I'm sure you will not regret attending them!

During 2005, EUCARPIA became involved in a new activity aimed at promoting plant breeding research and disseminating its results; in this case it is the participation as a partner in the FP-6 Project "Exploitation of natural plant biodiversity for the pesticide-free production of food (BIOEXPLOIT)" for the dissemination and transfer of results. This is a new experience for EUCARPIA which probably will lead to an increase in the participation of EUCARPIA in this kind of projects and therefore to increase the impact of plant breeding research in the society.

Finally, I just would like to send a warm salute to all members as well as to remind all of you that I am open to your suggestions for the improvement of the functioning of EUCARPIA as well as to proposals for new enterprises. You can reach me easily at my e-mail address (jprohens@btc.upv.es).

Valencia, Spain

January 2006

Jaime Prohens

President of EUCARPIA

## EUCARPIA BOARD AND EXECUTIVE COMMITTEE

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<b>J. Prohens Tomás*</b>	<b>President – Spain</b> Tel./Fax: +34 963879 424 / 422 E-mail: jprohens@btc.upv.es		2001
<b>E. Jacobsen*</b>	<b>Scientific Secretary - The Netherlands</b> Tel./Fax: +31 317 477046 / 418094 E-mail: e.jacobsen@plant.wag-ur.nl		2001
<b>B. Boller*</b>	<b>Treasurer - Switzerland</b> Tel./Fax: +41 13777 201 / 363 E-mail: beat.boller@fal.admin.ch		2004
<b>Z. Bedö*</b>	<b>Vice-President - Hungary</b> Tel./Fax: +36 22 569500 / 460213 E-mail: bedoz@penguin.mgki.hu		2004
<b>M.L. Badenes*</b>	<b>Secretary General - Spain</b> Tel./Fax: +34 963424 049 / 106 E-mail: eucarpia.secretariat@ivia.es		2004
<b>P. Ruckebauer*</b>	<b>Past President - Austria</b> Tel./Fax: +43 227266280 201 / 203 E-mail: peter.ruckebauer@boku.ac.at		1998
<b>E. van Bockstaele</b>	Country Representative	Belgium	2004
<b>A.N. Tsenov</b>	"	Bulgaria	2001
<b>V. Kozumplik</b>	"	Croatia	1998
<b>V. Sip</b>	"	Czech Republic	2001
<b>A. Jahoor</b>	"	Denmark	1998
<b>T.S. Aronen</b>	"	Finland	2001
<b>M. Rousset</b>	"	France	1998
<b>H.H. Geiger</b>	"	Germany	2001
<b>A. Blanco</b>	"	Italy	1998
<b>A. Sliesaravicius</b>	"	Lithuania	2004
<b>S.H. Hjeltnes</b>	"	Norway	2001
<b>J. Krzymanski</b>	"	Poland	2001
<b>Mrs. M. Balan</b>	"	Romania	2001
<b>A.F. Merezhko</b>	"	Russia	1998
<b>D. Skoric</b>	"	Serbia and Montenegro	1998
<b>P.C.G. Weibull</b>	"	Sweden	2001
<b>M. Humphreys</b>	"	United Kingdom	2004

\* Members of the Executive Committee

## EUCARPIA SECTIONS AND THEIR CHAIRPERSONS

SECTION	CHAIRPERSON	
<b>a. Potatoes</b>	<b>J.E. Bradshaw</b> (UK)	Tel./Fax: +44 1382 568524 / 568587 E-mail: jbrads@scri.sari.ac.uk
<b>b. Cereals</b>	<b>J.L. Molina Cano</b> (Spain)	Tel./Fax: +34 973 702574 / 238301 E-mail: joseluis.molina@irta.es
<b>c. Fodder Crops and Amenity Grasses</b>	<b>U.K. Posselt</b> (Germany)	Tel./Fax: +49 711459 2692 / 3841 E-mail: posselt@uni-hohenheim.de
<b>d. Biometrics in Plant Breeding</b>	<b>F. van Eeuwijk</b> (The Netherlands)	Tel./Fax: +31 317 482902 / 483457 E-mail: Fred.vanEeuwijk@wur.nl
<b>h. Genetic Resources</b>	<b>K. Hammer</b> (Germany)	Tel./Fax: +49 554298 1214 / 1213 E-mail: khammer@wiz.uni-kassel.de
<b>i. Maize and Sorghum</b>	<b>Mrs. Montserrat Pages</b> (Spain)	Tel./Fax: +34 93 4006131 / 2045904 E-mail: mptgmm@cid.csic.es
<b>j. Vegetables</b>	<b>A.P.M. Den Nijs</b> (The Netherlands)	Tel./Fax: +31 317 477005 / 418094 E-mail: a.p.m.dennijs@plant.wag-ur.nl
<b>k. Fruit</b>	<b>F. Laurens</b> (France)	Tel./Fax: +33 241 225763 / 225755 E-mail: laurens@angers.inra.fr
<b>l. Ornamentals</b>	<b>T. Schiva</b> (Italy)	Tel./Fax: +39 0184 667251 / 695072 E-mail: genetica@istflori.it
<b>m. Oil and Protein Crops</b>	<b>W. Swiecicki</b> (Poland)	Tel./Fax: +48 61233 511 / 671 E-mail: wswi@igrnov.igr.poznan.pl

## **SECTION REPORTS**

### **SECTION POTATOES**

The next meeting of the section will be a joint one with the EAPR Section “Breeding and Varietal Assessment” in Ireland. The meeting is now going to be held from 20 to 22 November 2006 so that it does not clash with other meetings. It is also well separated from the meetings in Madison, Wisconsin from 23 to 27 July 2006. These meetings are the 90<sup>th</sup> Annual Meeting of the Potato Association of America, the VI International Solanaceae Congress and the 3<sup>rd</sup> Solanaceae Genome Workshop. The meeting will take place in the Seven Oaks Hotel, Carlow which is close to our host Institute, Oak Park Research Centre, and the town centre of Carlow. We can look forward to a warm Irish welcome from our hosts. The theme of the meeting will be “The Science of Selection: potato breeding methodology for the 21<sup>st</sup> century”. I think that this is an extremely important topic because I feel that potato breeding is not as fast and efficient as it should be, and we must embrace the advances in genomics to make the big steps forward that are surely still possible. I look forward to seeing as many members as possible in Ireland in 2006.

To keep up to date with news regarding this meeting, visit the website <http://www.teagasc.ie/publications/2006/20061120.htm> or <http://www.eucarpia.org>

John Bradshaw  
Section Chairman  
December 2005

### **SECTION CEREALS**

We are organising since the beginning of 2005 the Cereal Section meeting, due to be held at Lleida (Spain) from 13<sup>th</sup> to 17<sup>th</sup> November 2006. There is being good response to the E-mail communication, and almost 300 people have replied up to now showing interest in receiving further information. Presently, the first notice has been mailed, and a good deal of letters,

including a poster to announce the meeting, has been also sent to research institutes and universities of different parts of the world.

The members of the Scientific Committee are:

Molina-Cano, J.L. (UdL-IRTA, Lleida, Spain) Chairman  
Christou, P. (Univ. Lleida, Spain)  
Graner, A. (IPK, Gatersleben, Germany)  
Guedes-Pinto, H. (Univ. Tras-os-Montes, Portugal)  
Hammer, K. (Univ. Kassel, Germany)  
Jouve, N. (Univ. Alcalá, Alcalá de Henares, Spain)  
Keller, B. (Univ. Zürich, Switzerland)  
Lasa, J.M. (EEAD-CSIC, Zaragoza, Spain)  
Martin, A. (IAS-CSIC, Córdoba, Spain)  
Martin-Sánchez, J.A. (UdL-IRTA, Lleida, Spain)  
Powell, W. (NIAB, Cambridge, UK)  
Royo, C. (UdL-IRTA, Lleida, Spain)  
Shewry, P. (RES, Rothamsted), UK)  
Stanca, A.M. (Inst. Sperimentale Cerealicoltura, Fiorenzuola, Italy)

The invited speakers are:

Brown, T. (UMIST, Manchester University, Manchester, UK)  
Cattivelli, L. (Inst. Sperimentale Cerealicoltura, Fiorenzuola, Italy)  
Christou, P. (UdL, Lleida, Spain)  
Feres, E. (IAS-CSIC, Córdoba, Spain)  
Gale, M. (CGIAR, Washington, USA)  
Gandon, B. (Limagrain, Clermont-Ferrand, France)  
Grando, E. (ICARDA, Aleppo, Syria)  
Graner, A. (IPK, Gatersleben, Germany)  
Korol, A. (Univ. Haifa, Israel)  
Munck, L. (Royal Veterinary and Agricultural University, Frederiksberg, Denmark)  
Powell, W. (NIAB, Cambridge, UK)

Romagosa, I. (UdL-IRTA, Lleida, Spain)

Schultze-Lefert, P. (Max-Planck-Institut, Cologne, Germany)

Shewry, P. (RES, Rothamsted, UK)

Toenniessen, G. (Rockefeller Foundation, New York, USA)

Waugh, R. (SCRI, Dundee, UK)

The topic areas that will be covered are:

1. Biodiversity for useful genes.
2. Integration of molecular assisted selection into conventional cereal breeding.
3. Genetic control of limiting factors for cereal production.
4. New concept of healthy grains for high quality food.
5. Genetics and breeding for sustainable cereal production.
6. New strategies for better understanding gene expression.
7. The colloquium between genome and metabolome to understand plant growth and development.

Further information about the meeting can be found at <http://www.eucarpia.org>.

Jose Luis Molina-Cano

Section Chairman

December 2005

### **EUCARPIA Rye Meeting**

We are organising since October 2005 the EUCARPIA Rye meeting, due to be held at Rostock (Germany) from 28<sup>th</sup> to 30<sup>th</sup> June, 2006. The 1<sup>st</sup> circular has been launched by the middle of November via e-mail, with deadline for response by 31<sup>st</sup> January, 2006. To-date, there has been good response to the e-mail communication, and we expect that 80-100 people will finally attend the meeting.

The members of the Scientific Committee are:

Aniol, A. (IHAR, Radzików, Poland)

Geiger, H.H. (Univ. of Hohenheim, Hohenheim, Germany), Chairman  
Goncharenko, A.A. (Agricultural Research Institute of Non-Chernozem Zone, Nemchinowka-1, Russia)  
Gunnarsson, Elisabeth (Svalöf-Weibull AB, Svalöf, Sweden)  
Gustafson, P. (USDA-ARS, Univ. of Missouri, Columbia, USA)  
Jouve, N. (Univ. Alcalá, Alcalá de Henares, Spain)  
Korzun, V. (Lochow-Petkus GmbH, Einbeck, Germany)  
Tupits, Ilme (Jögeva Plant Breeding Station, Jögeva, Estonia)  
Masojc, P. (Univ. of Szczecin, Szczecin, Poland)  
Miedaner, T. (State Plant Breeding Institute, Univ. of Hohenheim, Hohenheim, Germany)  
Ruzgas, V. (Lithuanian Institute of Agriculture, Dotnuva, Lithuania)  
Wehling, P. (Federal Centre for Breeding Research on Cultivated Plants, Gross Luesewitz, Germany)  
Yegorov, D.K. (Yurjev Plant Production Institute, Kharkiv, Ukraine)

The invited speakers are:

Aman, P. (Swedish University of Agricultural Sciences, Uppsala, Sweden)  
Aniol, A. (IHAR, Radzików, Poland)  
Boros, Danuta (IHAR, Radzików, Poland)  
Geiger, H.H. (Univ. of Hohenheim, Hohenheim, Germany)  
Goncharenko, A.A. (Agricultural Research Institute of Non-Chernozem Zone, Nemchinowka-1, Russia)  
Gustafson, P. (USDA-ARS, Univ. of Missouri, Columbia, USA)  
Jouve, N. (Univ. Alcalá, Alcalá de Henares, Spain)  
Madej, L. (IHAR, Radzików, Poland)  
Miedaner, T. (State Plant Breeding Institute, Univ. of Hohenheim, Hohenheim, Germany)  
Podyma, W. (IHAR, Radzików, Poland)  
Stein, N. (Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany)  
Wilde, P. (Lochow-Petkus GmbH, Einbeck, Germany)

The topic areas that will be covered are:

1. Breeding and Breeding Methods

2. General and Molecular Genetics
3. Genetic Resources and Diversity
4. Molecular Breeding
5. Comparative Genome Analysis
6. Disease Resistance and Stress Tolerance
7. Cytogenetics
8. Nutritional and Technological Quality

Further information about the meeting can be found at <http://www.eucarpia.org>.

Peter Wehling

Organizer of the Rye Meeting

January 2006

## **SECTION FODDER CROPS AND AMENITY GRASSES**

Due to two related international meetings (Int. Grassland Congress; Symposium Molecular Breeding of Forage and Turf), no section activities took place in 2005.

The next (26<sup>th</sup>) meeting of the section will be held from September 5 to 9 in 2006 at Perugia/Italy, jointly with the 16<sup>th</sup> meeting of the *Medicago* spp. Working Group.

The program will be under the title:

Breeding and seed production for conventional and organic farming.

Organic agriculture has become economically relevant in Europe and presents new challenges for breeders and seed producers of fodder crops and amenity grasses. One session will deal with topics in relation to organic farming.

We will discuss these and other issues through invited talks and offered talks and posters. Technical visits to research and production sites will be organized.

Perugia can offer you a very pleasant stay. Artistic attractions, from Etruscan to Roman to Medieval to modern times, are abundant in the Perugia Area, in a unique and well preserved landscape dominated by olive orchards and vineyards.

The tentative programme is the following:

***Sunday 3 September***

17:00 – 22:00 Registration, Poster set up, Welcome reception

***Monday 4 September***

8:30 - 12:30 Opening ceremony - Sessions 1 and 2

12:30 - 14:30 Lunch and poster viewing

14:30 - 18:30 Sessions 3 and 4

***Tuesday 5 September***

8:30 - 12:30 Sessions 5 and 6

12:30 - 14:30 Lunch

14:30 - 17:30 Poster viewing and Poster session

17:30 - 19:30 Business meetings

20:00 Social dinner

***Wednesday 6 September***

9:00 - 19:00 Technical visits

***Thursday 7 September***

8:30 - 12:30 Session 7 - Closing of meeting

The Organizing Committee is formed by:

Chairperson: Prof. Fabio Veronesi – DBVBA

Secretary: Prof. Daniele Rosellini - DBVBA

Dr Emidio Albertini - DBVBA

Dr Silvia Lorenzetti - DBVBA

Mr Bruno Lucaroni - DBVBA

Prof. Valeria Negri - DBVBA

Dr Carla Scotti - Experimental Institute for Forage Crops, Lodi, Italy

Dr Renzo Torricelli – DBVBA

The Scientific Committee is formed by:

Chairperson: Prof. Mario Falcinelli – DBVBA

Secretary: Dr Luigi Russi - DBVBA

Dr Sergio Arcioni – Plant Genetic Institute, Perugia, Italy

Prof. Egizia Falistocco – DBVBA

Prof. Robin Groose - University of Wyoming , Laramie WY USA

Dr Christian Huyghe - INRA, Lusignan, France

Prof. Franco Lorenzetti – DBVBA

Dr Efisio Piano - Experimental Institute for Forage Crops, Lodi, Italy

Prof. Ulrich Posselt - Universität Hohenheim, Stuttgart, Germany

Prof. Daniele Rosellini – DBVBA

Prof. Fabio Veronesi - DBVBA

Registration Fees will be about Euro 300 for Eucarpia members and Euro 350 for non-members. Accompanying person fee will be Euro 200. Fees will include all official documentation and proceedings, social dinner, coffee-breaks, lunches, tour and, for accompanying persons, a guided tour of Perugia. Financial support covering the registration fee will be available for a limited number of participants, preferably young scientists.

The venue will be the “Aula Magna” of the Faculty of Agriculture of the University of Perugia, which is located in an ancient Benedictian monastery very close to the Perugia city centre.

Further information can be obtained in the web addresses: <http://www.eucarpia.org> or the web site of the next meeting <http://www.eucarpia2006.net>

U. K. Posselt

Section Chairman

December 2005

## **SECTION BIOMETRICS IN PLANT BREEDING**

The XIII meeting of the EUCARPIA Biometrics in Plant Breeding Section will be held in Zagreb, Croatia, from 30 August to 1 September 2006.

The meeting will be divided into sessions, which will start with the presentations of invited speakers, followed by selected contributions from participants and end up with short communications. Remaining contributions will be presented as posters.

The program roughly looks like

- Linkage and LD based QTL mapping methodology (August 30, 2006)
- Crop growth modelling / modelling GxE (August 31, 2006 )
- Computer science, bioinformatics and analysis of large data set (September 1, 2006)
- Miscellaneous (to be determined, part of September 2, 2006)
- For Saturday, September 2, 2006, a post conference tour is planned

At the moment of printing, Bruce Walsh (Professor at the department of Ecology and Evolutionary Biology, University of Arizona) and David Balding (Professor of Statistical Genetics at Imperial College, London) have accepted invitations for lectures in the session on QTL mapping technology.

The Organizing Committee is formed by:

Coordinator:

Jerko Gunjača

Members:

Vinko Kozumplik - Eucarpia Board country representative

Marija Pecina - President of Croatian Biometrical Society

Ivan Pejić - Vice-Dean for international affairs

Zlatko Šatović - Editor of ACS journal

The Scientific Committee is formed by:

Coordinator:

Fred van Eeuwijk – Wageningen University and Research Centre, The Netherlands

Members:

Alain Charcosset – INRA, Moulon, France

Jesús Moreno-González – CIAM, A Coruña, Spain

Christine Hackett – BioSS, Dundee, Scotland

Paweł Krajewski – IGR PAN, Poznań, Poland

Hans-Peter Piepho – University of Hohenheim, Germany

More information can be obtained from the web page of the meeting (<http://www.agr.hr/events/eucarpia>).

We look forward to see you in Zagreb.

Fred Van Eeuwijk

Section Chairman

January 2006

## **SECTION GENETIC RESOURCES**

The XVIII EUCARPIA Genetic Resources Section Meeting “Plant Genetic Resources and their Exploitation in the Plant breeding for Food and Agriculture” (Towards innovations and progress in management and utilization of plant genetic resources to meet the current needs and future challenges of plant breeding, food and agriculture and industry) will be held on 23-26<sup>th</sup> of May 2007 in Piešťany, Slovak Republic.

The program will include keynote lectures delivered by invited speakers, oral presentations (lectured by selected contributing authors) and poster sessions covering the following topics issues:

1. Plant genetic resources conservation and use: an overview

2. Plant genetic resources enhancement for breeding
3. Molecular and information technologies for plant genetic resources – challenges and opportunities
4. Plant genetic resources in context of climatic changes

We are planning to have for each topic two invited speakers issue. Four sessions will be organized during the three-days' meeting. Presentations will be delivered as oral or as respectively. English will be the official language of the meeting. The poster exhibition will be on display throughout the meeting. Proceedings will be published after the meeting.

During the meeting there will be an excursion organized. More details in the 2<sup>nd</sup> circular. The second announcement with information concerning registration fees, hotel accomodation rates and deadline for hotel booking will come out in autumn 2006 and will be sent by e-mail.

For further information please contact:

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Research Institute of Plant Production

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I am looking forward to seeing you in Piešťany.

Karl Hammer

Section Chairman

January 2006

Report on the XVII EUCARPIA Genetic Resources Section Meeting (Castelsardo, Italy, March 30 – April 2, 2005)

During the year 2005, from March 30 through April 2, the XVII EUCARPIA Genetic Resources Section Meeting was held in Castelsardo-Sardinia, Italy. The Meeting was about: "Plant Genetic Resources of geographical and "other" islands. (Conservation, evaluation and

use for plant breeding). Local organiser was the Sassari section of the National Research Council Institute ISPAAM-CNR.

The Meeting was focused on the importance of islands for the conservation of plant genetic resources. Geographic and non geographic islands were considered. The latter incorporating such islands as areas isolated from intensive farming, traditional cropping areas of neglected landraces, crops related to cultural and ethnic traditions of isolated areas and nature reserves. The following nations were represented in the Meeting: Albania, Belgium, Czech Republic, Hungary, Kosovo, France, Germany, Israel, Italy, Japan, Poland, Romania, Slovak Republic, Slovenia, Spain, Sweden, Tunisia, and USA. The scientific program was organized into four sessions: I) The importance of islands for the conservation of plant genetic resources; II) Case studies of exploitation of plant genetic resources of geographic islands; III) Case studies of exploitation of plant genetic resources of non geographic islands; IV) Plant genetic resources in protected areas.

The International Scientific Committee was composed by Karl Hammer - Germany (chairman of the EUCARPIA Genetic Resources Section); Jaime Prohens - Spain (EUCARPIA President); Simonetta Bullitta - Italy (CNR-ISPAAM, local organizer); Pier Giovanni D'Ayala - France (UNESCO); Olympia Dini Papanastasi - Greece; Michael Hayward - UK; Toby Hodgkin - Italy (IPGRI-Rome); Gaetano Laghetti - Italy (CNR); Attila Szabò - Hungary (Veszprem University).

A genebank committee was established during the Meeting. The newly established members were: Iva Faberova, Pavol Hauptvogel, Simonetta Bullitta, Eva Thorn, Domenico Pignone, and Attila Szabò. The election of the Genetic Resources Section chairman took also place, and Karl Hammer was again elected unanimously.

The Meeting had the scientific patronage of the Italian National Research Council, the sponsorships of the "Consorzio 21", the Sassari Province, the collaboration of the Municipality of Castelsardo, Municipality of Nughedu S. Nicolò, National Park of La Maddalena, and Sardinian Railways.

The Meeting was held at the XI Hall of the Doria Castle in Castelsardo, a well preserved medieval town dating back 900 years, built on a cliff located in the middle of the Asinara gulf on the coast of Northern Sardinia.

Simonetta Bullitta

Organizer of the XVII EUCARPIA Genetic Resources Section Meeting

December 2005

## **SECTION MAIZE AND SORGHUM**

The XXth International Conference of the EUCARPIA Maize and Sorghum Section is being organized by the Agricultural Research Institute of Hungarian Academy of Sciences and will be held in Budapest, Hungary from 20 June to 24, 2006. The conference will take place at Agro Hotel and Conference Center, located on the highest point of the hilly district of Buda.

The organizers of the meeting are the following:

Csaba L. Marton (Hungary), János Pintér (Hungary), István Pók (Hungary), and also Montserrat Pages (Spain) - chairman of section

The International Scientific Committee is composed by:

Zoltán Bedő (Hungary), Janos Berenji (Serbia and Montenegro), Kosana Konstantinov (Serbia and Montenegro), Csaba L. Marton (Hungary), Montserrat Pages (Spain), Erzsébet Rajki-Siklósiné (Hungary), Roberto Tuberosa (Italy), Johan Van Waes (Belgium)

The National Advisory Committee is composed by:

Magdolna Bacsa, Ervin Balázs, Beáta Barnabás, Zoltán Berzsenyi, László Heszky, Sándor Hoffmann, László Kálmán, Csaba L. Marton (Chairman), János Nagy, Emil Páldi, István Pók (Secretary), Sándor Szél, Tamás Szundy

The preliminary scientific program includes:

Genetic resources of maize and sorghum

Adaptation to stress

Unification of variety testing methods

Strategies, methods in maize and sorghum breeding

Registration fees (300 € for the early registration and 350 € for the late registration for EUCARPIA members) include attendance to all the conference sessions, conference official documentation, book of proceedings, coffee, lunches, welcome snack and get-together party, tour to Martonvásár.

More information can be obtained from the web page <http://www.mgki.hu/eucarpia> or from [eucarpia@mail.mgki.hu](mailto:eucarpia@mail.mgki.hu)

Montserrat Pagés

Section Chairwoman

January 2006

## **SECTION VEGETABLES**

The section Vegetables had a relatively quiet year in 2005, with one working group getting together, whereas three group meetings are planned for the next year, 2007.

The working group on tomato met in Bari, Italy, 20-23 September for a very stimulating interaction between research and breeding, and local organizer Prof. Matteo Cirulli got this well balanced program together. It was decided that the next tomato working group meeting will be held in 2008 in the Netherlands.

In the spring of 2007 the next meeting of the leafy vegetables working group will be organized at Warwick, United Kingdom, by David Pink and his group. We look forward to this and I wish David's group at Warwick all the best in the preparations.

For fall 2007 the working group on carrots is preparing a meeting in the renewed Research Station for Plant Breeding (BAZ) in Quedlinburg, Germany. Dr. Thomas Nothnagel has agreed to take the lead in the organization, and I wish him good luck with it. It will be good to have this group together again after so many years (Krakow, Poland, 1997).

The working group on *Capsicum* and eggplant will meet also in 2007, in Warsaw, Poland, 5-7 September. Dr. Katarzyna Niemirowicz-Szytt has accepted to organize this meeting, and we anticipate a stimulating conference!

The next meeting of the working group on Cucurbitaceae is scheduled for 2008, in Avignon, France. Dr. Michel Pitrat and the group at INRA-Montfavet will organize this meeting, and we have high expectations for this conference as well!

Ton den Nijs  
Section Chairman  
January 2006

Report on the XVth Meeting of the EUCARPIA Tomato Working Group (Bari, Italy, September 20-23, 2005)

The Meeting took place in Bari and was organized by the Department of Biology and Plant Pathology of the University of Bari. The local convener was Prof. Dr. Matteo Cirulli. The scientific and organizing Committee (M. Cirulli, L. Ricciardi, V.V. Bianco, M. Amenduni, G. Bubici, C. Colella, M. D'Amico, C. de Giovanni and C. Lotti) did a very good job and ensured a high scientific standard as well as a very amicable meeting.

The 60 communications presented were grouped in four oral sessions (Classical genetics and breeding, Resistance to biotic and abiotic stresses, Fruit quality and yield and Biotechnology) and in a poster session. A book of abstracts was produced and the full communications will be published in a volume of *Acta Horticulturae*.

It was decided that the next meeting will take place in The Netherlands and that the local organizer will be Dr. Pim Lindhout.

## **SECTION FRUIT**

The next meeting of the section will take place in Zaragoza (Spain) from the 23<sup>rd</sup> to the 28<sup>th</sup> of September 2007. The convener will be Dr. Rafael Socias (rsocias@aragob.es). Information on

the meeting will be sent to EUCARPIA members in due time. Updated information is also available from the web page of EUCARPIA (<http://www.eucarpia.org>).

Rafael Socias

Organizer of the Meeting

January 2006

## **SECTION ORNAMENTALS**

The XXII meeting of the EUCARPIA Section Ornamentals will be held in Sanremo, Italy, from 11 to 15 September 2006. The general title of the meeting is: "Breeding for beauty". The actual task for the applied research is to choose the right combination of methods (strategy) to apply in this very differentiated plant material to get an innovative product for the customer. That means to have a deep knowledge of the genetic features of plant material and of course to manage properly the method to express its best potential. During the meeting, we will discuss these and other issues through key note and invited speakers and posters. Technical visits to research and production sites will be organized.

Session topics will be:

1. Exploitation of biodiversity
2. In vitro manipulation
3. Molecular methods for genetic improvement
4. Breeders right: molecular and phenotypical characterisation

Plenary lectures (30 min) will introduce the topics followed by oral communications (15 min).

Posters will be presented each during reserved periods.

The tentative programme is the following:

### ***Monday 11 September***

16:00 - 19:00 Registration, Poster set up, Welcome reception

### ***Tuesday 12 September***

8:00 - 8:30 Registration, Poster set up,

8:30 – 8:50	Opening ceremony (Chairman and Authorities)
9:00 - 9:30	Plenary Lecture

### **Session 1: Exploitation of biodiversity**

9:30 – 10:10	Invited lecture
10:10 – 10:50	Invited lecture
10:50 – 11:10	Coffee Break
11:10 - 11:30	Lecture 1
11:30 – 11:50	Lecture 2
11:50 – 12:10	Lecture 3
12:10 – 12:30	Lecture 4
12:30 – 14:00	Lunch
14:00 – 14:30	Poster viewing
14:30 – 14:50	Lecture 5
14:50 – 15:10	Lecture 6
15:10 – 15:30	Lecture 7
15:30 – 15:50	Coffee Break
15:50 – 16 :20	Oral posters Presentation (Session 1)
16:30	Meeting of EUCARPIA Board and Members

### ***Wednesday 13 September***

#### **Session 2: In vitro manipulation**

9:00 – 9:40	Invited lecture
9:40 – 10:00	Lecture 1
10:00 – 10:20	Lecture 2
10:20 – 10:40	Lecture 3
10:40 – 10:50	<b>Oral posters Presentation (Session 2)</b>
10:50 – 11:10	Coffee Break

#### **Session 3: Molecular methods in genetic improvement**

11:10 – 11:50	Invited Lecture
11:50 – 12:10	Lecture 1
12:10 – 12:30	Lecture 2

12:30 – 14:00	Lunch
14:00 – 14:30	Poster viewing
14:30	Technical Visits

***Thursday 14 September***

**Session 3: Molecular methods in genetic improvement**

9:00 – 9:40	Invited Lecture
9:40 – 10:00	Lecture 3
10:00 – 10:20	Lecture 4
10:20 – 10:40	Lecture 5
10:40 – 11:00	Coffee Break
11:00 – 12:00	Poster viewing
12:00 – 12:40	<b>Oral posters Presentation (Session 3)</b>
12:40 – 14:00	Lunch

**Session 4: Breeders' rights: molecular and phenotypical characterization**

14:00 – 14:40	Invited Lecture
14:40 – 15:20	Invited Lecture
15:20 – 15:40	Coffee Break
15:40 – 16:00	Lecture 1
16:00 – 16:20	Lecture 2
16:20 – 17:30	Round table
17:30	Closing Ceremony
20:00	Social Dinner

***Friday 15 September***

Post-Congress Tour (Technical visit)

The Scientific committee is composed by:

T. Schiva (Chairman)

CRA - Experimental Institute of Floriculture, Sanremo - Italy

A. Mercuri

CRA - Experimental Institute of Floriculture, Sanremo – Italy

G. Forkmann

Tecnical University of Munchen, Freising - Germany

A. Vainstein

The Hebrew University of Jerusalem – Israel

A. Cassells

National University of Ireland, Cork – Ireland

A. Cadic

INRA – C.R., Angers – France

J. van Tuyl

Plant Research International, Wageningen – The Netherlands

E. Van Bockstaele

ILVO - Institute for Agriculture and Fisheries Research, Merelbeke - Belgium

T.H. Teeri

University of Helsinki – Dept. Applied Biology – Finland

H.J.M. Bastiaanssen

R&D company GenVar Vitro BV of Humako Holding BV, Rijsenhout - the Netherlands

The Organising Committee is composed by:

T. Schiva (President)

CRA - Experimental Institute of Floriculture, Sanremo - Italy

A. Mercuri

(Secretary)

CRA - Experimental Institute of Floriculture, Sanremo - Italy

G. Forkmann

Tecnical University of Munchen, Freising – Germany

G. Burchi

CRA - Experimental Institute of Floriculture, Pescia - Italy

A. Giovannini

CRA - Experimental Institute of Floriculture, Sanremo - Italy

B. Ruffoni

CRA - Experimental Institute of Floriculture, Sanremo - Italy

Registration fees for EUCARPIA members are 350 € (before April 15, 2006) or 400 e (after April 15, 2006). Proceedings will be published in Acta Horticulturae. All papers will be subjected to peer review and the Scientific Committee will make the final decision concerning the acceptance. A first volume of the proceedings, containing the oral presentations, will be ready at the start of the symposium.

San Remo is the capital town of the Italian Riviera of Flowers. Its climate has been widely appreciated since the 1800's, but its artistic heritage, permeated by that typically Ligurian shyness, which escapes from any focus of attention, is still largely unknown. As a matter of fact, its views are extremely suggestive and its architecture and landscape make of this strip of land expanding up to the French boundary a real pearl of Italy.

Updated information can be obtained from the web page of the symposium <http://www.istflori.it/DesktopDefault.aspx?tabindex=7&tabid=8076> or from the organisers (t.schiva@istflori.it or a.mercuri@istflori.it)

We look forward to seeing you in Sanremo.

Tito Schiva

Section Chairman

Chairman of the meeting

January 2006

## **SECTION OIL AND PROTEIN CROPS**

Contacts are being made in order to organize the next section meeting, which probably will take place in the second half of 2007. As soon as more information is available, it will be posted in the web page of EUCARPIA (<http://www.eucarpia.org>).

## WORKING GROUP ORGANIC PLANT BREEDING

Plant breeding for organic agriculture is receiving increasing attention, both from the practical breeding and from research in several European countries. In 2005 Wageningen University has launched a (part-time) endowed chair for Organic Plant Breeding. Edith Lammerts van Bueren will be the first professor Organic Plant Breeding worldwide. In the COST 860 SUSVAR programme cereal breeders in Europe - focussing on low-input and organic agriculture - meet each other regularly, see <http://www.cost860.dk>. Two international workshops in this field have been held of which the proceedings are available. The proceedings of the COST/ECO-PB workshop on *Organic breeding strategies and the use of molecular markers* is available on line: [http://www.eco-pb.org/09/7617\\_01048.pdf](http://www.eco-pb.org/09/7617_01048.pdf)) and in Latvia a seminar was held on *Variety testing, Seed propagation and Plant breeding for organic agriculture: current status and problems in Europe* within the ENVIRFOOD project of the 6<sup>th</sup> Framework programme (see <http://www.eco-pb.org/09/rp.htm>).

On 11-13 June 2006 there will a workshop on *Participatory Plant Breeding in organic agriculture*, organised by INRA and ECO-PB. This meeting will take place in La Besse (France).

The first Meeting of the EUCARPIA Working Group Organic Plant Breeding is planned for 2007, November 7-9 in Wageningen, the Netherlands. The leading theme will be *Genotype by Environment Interaction in organic breeding programmes*. The General assembly of September 2004 had suggested to start as working group. During our first meeting we will discuss the convenience of proposing to the next General assembly the transformation of the Working Group into a new Section Organic Plant Breeding.

E. Lammerts van Bueren

Working Group Chairwoman

January 2006

## BIOEXPLOIT PROJECT

EUCARPIA participates as a partner in the EU Framework 6 Integrated Project BIOEXPLOIT (Exploitation of natural plant biodiversity for the pesticide-free production of food). This project commenced in October 2005 and comprises 45 laboratories from 12 countries and is led by Professor Jaap Bakker from Wageningen University, The Netherlands. Approximately one quarter of the participants are based in companies or small-medium enterprises (SMEs). The project aims over the next five years to exploit natural plant diversity for the production of pesticide-free food from wheat, barley, potato and tomato crops. EUCARPIA participates in the part dealing with the dissemination to the plant breeding community of the results of the project.

In the EU-15, more than 230 million kg pesticides are used per annum to control fungi, insects, nematodes, viruses, and to lesser extent bacteria. About 61% of these chemicals are used for fungal pathogens in major crops like cereals, potato, fresh fruit, vegetables, sugar beet and vineyards. In arable farming 70% of the fungicides are used to combat fungal and Oomycete pathogens in potato and cereals, mainly wheat and barley. The overall objective of this Integrated Project is to provide alternatives for these fungicides in the two main European food crops, wheat and potato, by exploiting natural variations in host plant resistance.

This will be accomplished by developing genomics and post-genomics tools to design durable resistance to fungal pathogens by studying the genes and molecular mechanisms, of both the plants and their pathogens, underlying qualitative and quantitative resistance traits. These tools will be used to mobilise the genetic resources of potato and wheat stored in European gene banks and to accelerate ongoing breeding programs.

The main target pathogens in this project are *Phytophthora infestans* in potato and *Septoria tritici*, *Blumeria graminis*, *Puccinia* spp. and *Fusarium* spp. in wheat. Although disease resistance is an important trait in plant breeding, many diseases are still hard to control without the use of pesticides. Considering the risks for human health and the environment, many pesticides should have been banned already many years ago, but are still tolerated because no suitable alternatives are available. Although world-wide huge investments have been made to create transgenic plants with various types of resistances, the European plant breeding industry has been confronted with continuous doubts about the commercial future of

genetically modified (GM) crops. Due to the public debate on Genetically Modified Organisms (GMOs), most European companies have been reluctant to invest in plant biotechnology. This situation has led to an undesirable *status quo*, in which no alternatives for harmful pesticides are developed, and promising new DNA technologies remain unexplored.

The aim of this EU project is to force a break-through by developing efficient and rational breeding strategies using genomics and post-genomics tools to exploit natural host plant resistance. Two strategies will be followed to design new resistant varieties: i) marker-assisted breeding and ii) genetic engineering. In the shade of the discussions on GMOs, marker-assisted breeding has gone through a silent revolution and has become a realistic option for developing new varieties with multiple resistances. The development of high through-put technologies for selecting plants at the seedling stage will shorten the time between the first cross involving wild species and introduction on the market considerably, for some crops even with 50%. Genetic variation in wild accessions of crop species and in their wild relatives is still largely unexplored. It has been estimated that less than 0.1 % of the biodiversity in resistance is being used in commercial varieties. A major goal of this project is to exploit these genetic resources for designing resistant varieties, either made with or without genetic engineering. The relative importance of genetic engineering for the SMEs to develop new varieties for the regular market in this project is still difficult to predict and will depend on the attitude of the consumer. The fact that these GM approaches will only use natural plant genes, which have been used for more than 50 years in traditional plant breeding, may have a positive effect on the attitude of the European consumers. Regardless the public opinion towards GM crops, marker-assisted breeding will have a high priority in this project, because it is according to various opinion leaders compatible with organic farming. In addition, in view of the continuous advances in developing new high through-put technologies, it is expected that in many situations marker-assisted breeding will become more efficient than genetic engineering, even without considering the time consuming and costly procedures to introduce GM varieties on the market.

This Integrated Project will focus primarily on wheat and potato - the two most important staple crops for all consumers in the EU - for which pesticides, mainly fungicides, are indispensable at the moment. Despite their importance as food crops for Europe, investments in genomics and post-genomics research on wheat and potato have been severely lagging

behind when compared with rice or even tomato. In addition, wheat and potato have not been the favourite plant species of the scientific community to unravel disease resistance, and, as a consequence, basic knowledge and tools to design new resistances are often poorly developed. The coming years a critical mass on genomics research in wheat and potato will be essential to strengthen the competitiveness of European SMEs. Despite the expansion activities of multinational companies in Europe, SMEs play still an important role in plant breeding. However, the opening of the European market for GM food and the increasing possibilities to grow GM varieties in Europe leads to a new situation where innovating activities are of utmost importance to survive in a highly competitive market.

Considering the commercial activities of the European plant breeding industry, the results of BIOEXPLOIT will also have a major impact on various other crop species.

**Four specific strategic objectives will be addressed in BIOEXPLOIT:**

- 1) To understand the molecular components involved in durable disease resistance
- 2) To explore and exploit the natural biodiversity in disease resistance
- 3) To accelerate the introduction of marker-assisted breeding and genetic engineering in the EU plant breeding industry
- 4) To coordinate and integrate resistance breeding research, to provide training in new technologies, to disseminate the results, and to transfer knowledge and technologies to industry

The BIOEXPLOIT project will address its strategic objectives within eight subprojects as shown below.

**Strategic objective I: To understand the molecular components involved in durable resistance**

*Subproject 1.* To identify targets for durable resistance by analysing fungal effector molecules

*Subproject 2.* To map, isolate and characterise genes responsible for qualitative and quantitative disease resistance in potato and wheat

*Subproject 3.* To unravel the molecular mechanisms underlying innate resistance to plant pathogens

**Strategic objective II: To explore and exploit the natural biodiversity in disease resistance**

*Subproject 4.* To explore natural biodiversity on genetic loci associated with disease resistance in wheat and potato accessions in genebanks

**Strategic objective III: To accelerate the introduction of marker-assisted breeding and genetic engineering in the EU plant breeding industry**

*Subproject 5.* To increase disease resistance in potato and wheat through marker-assisted breeding

*Subproject 6.* To increase disease resistance in potato and wheat through genetic engineering

*Subproject 7.* To coordinate and integrate research and to provide training

**Strategic objective IV: To coordinate and integrate resistance-breeding research, to provide training in new technologies, to disseminate the results, and to transfer knowledge and technologies to industry**

*Subproject 8.* To disseminate the results and to transfer technology to industry

Further information on this project can be found at the public website:  
<http://www.bioexploit.net>.

## NEWS FROM THE EUCARPIA SECRETARIAT

### New EUCARPIA members

The executive committee is pleased to welcome the following new members (since January 2005) in our association:

#### List of new individuals:

<b>AUSTRALIA</b>	<b>GODWIN I.</b>	Brisbane
	<b>GRANGER A.R.</b>	Lenswood
	<b>NAGY N.</b>	Cobbitty NSW
<b>AUSTRIA</b>	<b>BISTRICH H.</b>	Reichersberg/Inn
	<b>LAFFERTY J.</b>	Probstdorf
<b>AZERBAIJAN</b>	<b>BABAYEV A.</b>	Ganja
<b>BELGIUM</b>	<b>DE RIEK J.</b>	Melle
	<b>DERMAUT J.</b>	Avelgem-Kerkhove
<b>BULGARIA</b>	<b>VELICHKA R.</b>	Plovdiv
<b>CROATIA</b>	<b>CAROVIC K.</b>	Zagreb
<b>CUBA</b>	<b>PIÑON-GOMEZ M.</b>	La Habana
<b>CZECH REPUBLIC</b>	<b>DUSEK K.</b>	Olomouc-Holice
	<b>FABEROVA I.</b>	Prahag - Ruzyne
	<b>FALTA V.</b>	Horice V Podkrkonosi
	<b>HERMUTH J.</b>	Prague - Ruzyne
	<b>HOLMAN B.</b>	Bzenec
	<b>HOLMAN J.</b>	Bzenec
	<b>JAKESOVA H.</b>	Hladke Zivotice
	<b>KAPLAN J.</b>	Horice V Podkrkonosi
	<b>KARLOVA K.</b>	Olomouc-Holice
	<b>LEISOVA L.</b>	Prague - Ruzyne
	<b>SEVCIKOVA M.</b>	Zubri
	<b>SMYKAL P.</b>	Sumperk
	<b>STAVELIKOVA H.</b>	Olomouc-Holice
	<b>STEHNO Z.</b>	Prague - Ruzyne
<b>FINLAND</b>	<b>KALENDAR R.</b>	Helsinki
<b>FRANCE</b>	<b>BAJDRACCO-ARNAS S.</b>	Eyragues
	<b>COLLONNIER C.</b>	Guyancourt Cedex
	<b>MURIGNEUX A.</b>	Aubiere
	<b>RONICKE S.</b>	Oucques
	<b>ROYER F.</b>	Nice
	<b>VERSCHAVE P.</b>	Ledenon
	<b>CAROLO P.</b>	Blois
	<b>PERRET D.</b>	Mondonville
<b>GERMANY</b>	<b>BEUCH S.</b>	Granskevitz
	<b>KUNTZE L.</b>	Böhnshause
	<b>LAUBACH E.</b>	Gudow
	<b>SCHULZE-LEFERT P.</b>	Koln
	<b>STRITTMATTER G.</b>	Einbeck
<b>GREECE</b>	<b>MAVROMATIS A.</b>	Volos
	<b>TERZOPOULOS P.</b>	Athens
<b>HUNGARY</b>	<b>GYULAI G.</b>	Godollo
	<b>HEGYI Z.</b>	Brunszvik

	<b>KOVACS J.</b>	Keszthely
	<b>LAGLER R.</b>	Godollo
	<b>SZABO T.A.</b>	Veszprem
	<b>SZABO Z.</b>	Godollo
	<b>TAKACS A.</b>	Keszthely
<b>INDIA</b>	<b>AJITH P.M.</b>	Trivandrum
	<b>AURANGABADKAR L.</b>	Nagpur Maharashtra
	<b>CHAKRABORTY S.</b>	Jodhpur
	<b>HENERY A.A.</b>	Jodhpur
	<b>KASERA P.W.</b>	Jodhpur
	<b>KOLTE SHARADCHANDRA</b>	Pantnagar
	<b>SHEKHAWAT N.S.</b>	Jodhpur
	<b>SIDHU A.S.</b>	Ludhiana
	<b>VISHWAKARMA M.</b>	Nagpur Maharashtra
<b>INDONESIA</b>	<b>MULYA K.</b>	Bogor
<b>IRAN</b>	<b>ABDOLLAHI MANDOULAKANI B.</b>	Karaj
	<b>RABIEI B.</b>	Rasht
	<b>SADAT NOORI S.A.</b>	Tehran
<b>IRELAND</b>	<b>MCGRATH S.</b>	Carlow
<b>ISRAEL</b>	<b>DUIR T.</b>	Ariel
	<b>TREBITSH T.</b>	Beer-Sheva
<b>ITALY</b>	<b>COSTA E.</b>	Grugliasco
	<b>LAFIANDRA D.</b>	Viterbo
	<b>LANTERI S.</b>	Grugliasco
	<b>MICELI F.</b>	Udine
	<b>PARRELLA G.</b>	Portici
	<b>PIGNONE D.</b>	Bari
	<b>SCARIOT V.</b>	Grugliasco
<b>JAPAN</b>	<b>MIKAMI T.</b>	Sapporo
	<b>SAKAI M.</b>	Chiba Pref.
	<b>TANIKASA T.</b>	Kyoto
	<b>WATANABE N.</b>	Gifu
<b>LATVIA</b>	<b>BELICKA I.</b>	Talsu Raj.
	<b>BLEIDERE M.</b>	Dizstende, Talsi
	<b>GRUNTE I.</b>	LV-3258
	<b>GRUNTINA M.</b>	Talsu Raj.
	<b>MALECKA S.</b>	Talsu Raj.
	<b>MIGLANE V.</b>	Talsu Raj.
	<b>STRAZDINA V.</b>	Talsu Raj.
	<b>VOJEDOVA L.</b>	LV-3201
	<b>ZUTE S.</b>	Talsi
<b>LITHUANIA</b>	<b>BLINSTRUBIENE A.</b>	Akademija, Kaunas
	<b>BURBULIS N.</b>	Akademija, Kaunas
	<b>KUPRIENE R.</b>	Akademija, Kaunas
	<b>VAITKUNIENE V.</b>	Vilnius
	<b>ZILENAITE L.</b>	Akademija, Kaunas
<b>MEXICO</b>	<b>ALEJANDRE-ITURBIDE G.</b>	Durango
	<b>RIBAUT J.M.</b>	El Batán, Texcoco
<b>MOROCCO</b>	<b>ATER MOHAMMED</b>	Tetouan
<b>NETHERLANDS</b>	<b>DONS H.J.M.</b>	Wageningen
	<b>HOPMANS C.W.J.</b>	Naaldwijk

	<b>HOUBRAKEN A.</b>	Enkhuizen
	<b>KUSTERS E.</b>	Heijen
	<b>VAN TUNEN A.J.</b>	Wageningen
<b>NEW ZEALAND</b>	<b>JOSEKUTTY P.C.</b>	Christchurch
<b>NIGERIA</b>	<b>ADETULA O.A.</b>	Ibadan
	<b>UBI, BENJAMIN EWA</b>	Calabar
<b>NORWAY</b>	<b>STURITE I.</b>	Kapp
<b>PAKISTAN</b>	<b>RIZWAN A.</b>	Sahiwal
<b>POLAND</b>	<b>BARTKOWIAK-BRODA I.</b>	Poznan
	<b>CEGIELSKA-TARAS T.</b>	Poznan
	<b>CZEMBOR P.</b>	Blonie
<b>REPUBLIC OF KOREA</b>	<b>LEE SUK HA</b>	Seoul
<b>RUSSIA</b>	<b>IGNATOVA S.I.</b>	Vereja
<b>SENEGAL</b>	<b>NONO-WOMDIM R.S.</b>	Dakar
<b>SERBIA AND MONTENEGRO</b>	<b>BERENJI J.</b>	Backi Petrovac
	<b>JOVANOVIC D.</b>	Novi Sad
<b>SOUTH AFRICA</b>	<b>BOTES W.C.</b>	Matieland
<b>SPAIN</b>	<b>CEBOLLA-CORNEJO J.</b>	Valencia
	<b>DIAS S.</b>	Aguilas
	<b>FERNANDEZ-PEREZ J.A.</b>	Albacete
	<b>GOCORCENA Y.</b>	Zaragoza
	<b>ORTEGA-PASTOR E.</b>	Espinardo, Murcia
	<b>PEREZ DE CASTRO A.M.</b>	Valencia
<b>TAJIKISTAN</b>	<b>MUMINJANOV H.</b>	Dushanbe
<b>THAILAND</b>	<b>PRATHEPHA PREECHA</b>	Muang, Mahasarakham
<b>TUNISIA</b>	<b>HAMZA-BEN YOUSSEF S.</b>	Tunis
	<b>TARCHOUN N.</b>	Sousse
<b>TURKEY</b>	<b>DOGANLAR S.</b>	Izmir
	<b>SARI N.</b>	Cukurova
	<b>SEYIS F.</b>	Ondokuz Mayıs
	<b>TURGUT K.</b>	Antalya
<b>UGANDA</b>	<b>KAWUKI R.</b>	Kampala
<b>UNITED KINGDOM</b>	<b>MCLEAN K.</b>	Dundee
	<b>RAMSAY G.</b>	Dundee
	<b>SUTHERLAND B.</b>	Kent
<b>UNITED STATES OF AMERICA</b>	<b>DARRIGES A.</b>	Wooster, Ohio
	<b>GOLDMAN A.P.</b>	Rhinebeck, New York
	<b>HAN JIXIANG</b>	St. Louis, Missouri
	<b>KNERR L.D.</b>	Salinas, California
	<b>PARIS-PEREZ M.K.</b>	Madison, Wisconsin

**New corporate members:**

<b>AZERBAIJAN</b>	<b>GANJA AGRIBUSSINESS ASSOCIATION</b>	Ganja
<b>BELGIUM</b>	<b>BAYER BIOSCIENCE NV</b>	Zwijnaarde
<b>MEXICO</b>	<b>GENERATION CHALLENGE PROGRAMME</b>	El Batán (Texcoco, Mexico)

**Deceased members**

**Austria:** H. HÄNSEL, Vienna, Austria

**Switzerland:** G. POPOW, Dietlikon, Switzerland

### Obituary of Hermann Hänsel

Prof. Dr. Hermann Hänsel passed away just after Christmas at the age of 87. He had been member of EUCARPIA since 1956. He studied agriculture at the University of Agricultural Sciences (Bodenkultur) in Vienna and terminated these studies with a PhD in plant breeding in 1948. After several post-doctoral studies in Cambridge/UK and Wageningen/NL he decided to work as a practical plant breeder in the Probstdorfer Saatzucht, located in the cereal growing area east of Vienna in Lower Austria. Breeding winter wheat, spring durum and barley became his passion, but plant breeding science still remained his love. So he never lost contact to his former University and received in 1954 a D.Sc. promotion as a lecturer and later as an external professor of plant breeding science. For more than 33 years he offered lectures of specific topics such as mutation breeding, breeding methodology and developmental physiology of cereals species. His successful scientific lifework consists of more than 140 peer-reviewed papers cited world wide. The importance of his scientific contribution towards plant breeding sciences was more than scientifically underlined by his outstanding results in the breeding of cereal varieties. More than 55 varieties, among them a dozen of Central European importance, are a lifework which seeks her kind! Many awards and decorations accompanied his life work, and among them is the Honorary membership of EUCARPIA, which was granted to him in the last EUCARPIA General Congress, which took place in Tulln, Austria in 2004.

P. Ruckenbauer

January 2006

### Obituary of Georg Popow

On 13 July 2005, Georg Popow died in his 89th year of life. He had joined EUCARPIA in 1958 and stayed a faithful member of our society for almost all of its existence, until his death. From 1974 until 1980, he was a member of the Executive Board, where he served as treasurer, like an unbroken series of Swiss EUCARPIA treasurers continuing to present. Georg Popow was a practical plant breeder gifted with an excellent “breeder’s eye” and a rarely failing intuition. He initiated the Swiss maize breeding programme and helped greatly to establish maize as a major crop in Switzerland. He was also responsible for the Swiss wheat breeding programme at Zürich-Reckenholz and promoted the unique combination of disease resistance and bread making quality, typical for the cultivars still covering most of the Swiss wheat cropping area.

B. Boller

December 2005

## **Membership fees**

Invoices for the 2006 membership will be issued in April. The membership fee for individual members is € 40 for members of Western Europe and developed countries from elsewhere outside Europe, € 30 for EU members of Eastern Europe and € 20 for members of other Eastern Europe countries (this special rate is also applied to some developing countries outside geographical Europe). The fee of corporate members is € 300.

In face of increasing bank costs, payment of membership fees by credit card (Visa/JCB, Eurocard/Mastercard) is strongly encouraged, as this is cheapest both for members and for EUCARPIA. Now the EUCARPIA membership fee can be also paid with a credit card through the Secure online system. For bank transfers, please use the following details, which corresponde to the EUCARPIA account in Spain: **IBAN:** ES67 2013 1122 0802 0019 9729  
**BIC:** CESCESBBXXX

## **Membership privileges**

### *Individual membership*

Among others, advantages of being member of EUCARPIA include:

- Reduction ( $\geq 40$  €) in the registration fee for events (General congress, symposia, meetings, etc.) organized by EUCARPIA.
- Reduced rates for the annual subscriptions to plant breeding journals: *Euphytica* (90 €), *Plant Breeding* (74 €), *Molecular Breeding* (100 €), *Theoretical and Applied Genetics* (264 €), *Plant Genetic Resources: Characterization and Utilization* (124 €) and *Genetic Resources and Crop Evolution* (100 €) and discounts in the publications edited by EUCARPIA.
- Participation in the EUCARPIA sections of your interest (or in all if you wish).
- Reception of the EUCARPIA Bulletin, with information on EUCARPIA activities, publications, dates and information of symposia, meetings and events related to plant breeding, etc.
- Membership certificate issued by the EUCARPIA Secretariat
- Other advantages, like the facilitation of the international cooperation, exchange of methods and plant material, etc.

### *Corporate membership*

Apart from the privileges entitled to individuals, Corporate members (Institutes, Departments, Companies, Associations, Societies, etc.) have the following additional privileges:

- Possibility of enlisting up to 10 individual members associated to the corporate membership for free.
- A link to the web page of the Institution can be posted in the web page of EUCARPIA (<http://www.eucarpia.org>). This web page is visited mainly by breeders and receives many hits per day.

### **EUCARPIA Bulletin**

The EUCARPIA Bulletin No. 34 will probably be printed in the 4<sup>th</sup> quarter of 2006. If you would like to publish information about congresses, meetings, publications, section news or any other information relevant to other members, please send in your contribution to the Secretariat by **October 1, 2006**.

### **Scientific journals at reduced rates for individual members of EUCARPIA**

Agreements between EUCARPIA and three publishers (Springer, Blackwell and CABI) have been reached offering individual members of EUCARPIA a personal subscription to the scientific journals *Euphytica*, *Plant Breeding*, *Molecular Breeding*, *Theoretical and Applied Genetics*, *Plant Genetic Resources: Characterization and Utilization*, and *Genetic Resources and Crop Evolution* at very special reduced rates. Subscription prices of these journals for 2006 for EUCARPIA members are the following:

*Euphytica*: 90 €

*Plant Breeding*: 74 €

*Molecular Breeding*: 100 €

*Theoretical and Applied Genetics*: 264 €

*Plant Genetic Resources: Characterization and Evaluation*: 124 €

*Genetic Resources and Crop Evolution*: 100 €

Subscription forms can be obtained from our web page (<http://www.eucarpia.org>) or from the EUCARPIA Secretariat.

**<http://www.eucarpia.org>**

The web-site of EUCARPIA (<http://www.eucarpia.org>) is updated on a regular basis. During this year we have incorporated an online payment system which can be used as an alternative to the traditional system of making a bank transfer or sending the credit card details by regular mail or fax. Also, links a new section with links to the web pages of EUCARPIA Corporate members has been established. For contributions, updates, suggestions or comments please contact the Secretariat (E-mail: [eucarpia.secretariat@ivia.es](mailto:eucarpia.secretariat@ivia.es)). The web-site is the most cost-efficient tool to deliver up-to-date information about EUCARPIA both to members as well as to non-members of the association.

**Address of EUCARPIA Secretariat**

The address of the EUCARPIA Secretariat is: Dr. María L. Badenes, Instituto Valenciano de Investigaciones Agrarias, Apartado Oficial, E-46113 Moncada (Valencia), Spain (Tel.: +34 963424049; Fax: +34 963424106; e-mail: [eucarpia.secretariat@ivia.es](mailto:eucarpia.secretariat@ivia.es)).

María L. Badenes

EUCARPIA Secretary General

# MINUTES OF THE EXECUTIVE COMMITTEE MEETING

**Valencia, Spain, 26 June 2005**

Participants: Prof. J. Prohens Tomás, Prof. E. Jacobsen, Dr. B. Boller, Prof. Z. Bedö,  
Dr. M.L. Badenes and Prof. P. Ruckebauer

1. Welcome and opening by the president.
2. Final report on the XVth congress in Tulln by the past-president. There were 356 participants from 49 countries, 38 plenary lectures were given and 221 posters were shown. The topic was favoured by the participants but the lectures varied in quality. The financial outcome was almost neutral and the printed books are popular. The bank account in Vienna can be closed and the membership fees collected in Vienna will be booked to the bank account in Vienna.
3. A list of activities in 2005/2006 has been prepared and discussed. It shows that in 2005 not many scientific meetings are planned and those of 2006 and later are discussed. If possible, the chairman or one of the other executive committee members will participate in these scientific meetings. The chairman of the Oil and Protein Crops section will be contacted about the meeting in 2006 and Prof. Lammerts van Bueren will be asked whether the first scientific meeting of the Organic Breeding working group will be organised in 2006 or later.
4. The overview of the current financial situation has been presented by Dr. Boller and was discussed. The problem of the low interest is discussed and actions will be taken to improve it. The costs of the secretariat in Valencia are relatively low. The office and computer use is free as well as the mailing.
5. Two subsidies for the scientific meetings in 2005 have already been forwarded. Three requests for subsidies of the scientific section meetings in 2006 with a clear budget have been approved. One section and workgroup meeting appeared to be one and the same meeting and, therefore, only the subsidy for the section meeting was approved.
6. Developments in science and research in Europe has shortly been discussed. From the report of the EU Technology Platform "Plants for the Future" is concluded that it is wise to start a working group on Forestry Breeding. Prof. Ruckebauer will search for a potential chairman of such a working group.

7. The secretariat was transferred very well. Payments and registration of new members are going on well. There are 85 new members, including 3 corporate members and 35 cancellations were received. At the moment EUCARPIA has 1035 members. The attraction of new members is fruitful. Some problems with the Chamber of Commerce in the Netherlands have been solved.
8. Existing and developing agreements with Springer, Blackwell and CABI are shortly discussed. The new agreements will be communicated via the bulletin.
9. EUCARPIA will have its 50<sup>th</sup> anniversary in 2006. The suggestions on this occasion made in the General Assembly have been discussed. The conclusion was that Euphytica will be contacted for a special issue and book in Euphytica. It will contain excellent state of the art papers on "Modern Developments in Plant Breeding". The past-president will invite one of our members to be main editor and if needed with the past-president and the scientific secretary in an assisting role.
10. The first outlines of the congress of 2008 in Valencia, the place and facilities, the probable size, the theme, the preferred month and an incoming letter on this subject with suggestions have been discussed.
11. The coordinator, Prof. Bakker, of the EU FP 6 project on Bioexploit has included EUCARPIA and the EAPR as partner in one of the work packages. This brings a new interesting role to EUCARPIA with respect of feedback to plant breeders of the scientific results out of this project with 45 partners. Another example is our contact with the International Cereal Chemistry Association which needs connection with plant breeders in the FP 6 project on "Healthy Grain". Collaboration on this subject with EUCARPIA is under discussion with Prof. Bedö.
12. Miscellaneous. There are 5 new countries with more than 10 members that will be invited to come up with a country representative. The consequences of the decisions made in the General Assembly in Vienna will be adapted in our rules.

The minutes of the June 2005 Executive Committee Meeting were approved by E-mail in July 2005.

## EUCARPIA MEETING CALENDAR FOR 2006 AND LATER

More information and updates on these meetings can be obtained in the web page of EUCARPIA (<http://www.eucarpia.org>)

- Potatoes**                    **Section Meeting. Carlow, Ireland**  
20 - 22 September 2006  
This section meeting will be held concurrently with a European Association for Potato Research (EAPR) meeting  
Info: Dan Milbourne  
e-mail: [dmilbourne@oakpark.teagasc.ie](mailto:dmilbourne@oakpark.teagasc.ie)
- Cereals**                    **Section Meeting. Lleida, Spain**  
**"Cereal Science and Technology for Feeding Ten Billion People: Genomics Era and Beyond"**  
13 - 17 November 2006  
Info: J.L. Molina-Cano  
Centro UdL - IRTA  
Av. Alcalde Rovira Roure 191  
25198 Lleida (Spain)  
Tel.: +34-973702574 Fax: +34-973238301  
E-mail: [joseluis.molina@irta.es](mailto:joseluis.molina@irta.es)
- Rye Working Group Meeting. Gross Luesewitz, Germany**  
28 - 30 June 2006  
Info: Peter Wehling  
E-mail: [bafz-lk@bafz.de](mailto:bafz-lk@bafz.de)
- Fodder Crops and Amenity Grasses**                    **XXVI Meeting of the Fodder Crops and Amenity Grasses Section and XVI Meeting of the Medicago spp. Working Group. Perugia, Italy**  
3 - 7 September 2006  
The general title of the meeting is: *"Breeding and seed production for conventional and organic agriculture"*  
Info: Daniele Rosellini  
Secretary Organizing Committee  
[info@eucarpia2006.net](mailto:info@eucarpia2006.net)  
[www.eucarpia2006.net](http://www.eucarpia2006.net)
- Biometrics in Plant Breeding**                    **XIIIth Meeting of the Biometrics in Plant Breeding Section. Zagreb, Croatia**  
30 August - 1 September 1, 2006.  
Info: J. Gunjaca  
Department of Plant Breeding, Genetics and Biometrics  
Faculty of Agriculture  
University of Zagreb  
Svetosimunska 25  
10000 Zagreb  
Croatia  
Tel.: +385 1 2393938  
Fax: +385 1 2393631  
e-mail: [jgunjaca@agr.hr](mailto:jgunjaca@agr.hr)

- Genetic Resources**      **XVIIIth Meeting of the Genetic Resources Section. Slovakia**  
The next meeting is scheduled for 23-26 May 2007  
Info: P. Hauptvogel  
Research Institute of Plant Production Piestany  
Bratislavská 122  
92168 Piest'any  
Slovakia  
Tel.: +421 33 7722311  
Fax: +421 33 7726306  
e-mail: eucarpia.pgr@vurv.sk
- Vegetables**      **Leafy Vegetables Working Group Meeting. Warwick, United Kingdom**  
April 2007  
Info: David Pink / Denny Croft  
E-mail: david.pink@warwick.ac.uk / Denny.Croft@warwick.ac.uk
- Capsicum and Eggplant Working Group Meeting. Warsaw, Poland**  
5-7 September 2007  
Info: Katarzyna Niemirowicz-Szczytt  
E-mail: niemirowicz@alpha.sgww.waw.pl
- The next meeting of the Carrot working group is planned for the spring of 2007 and will be organized by Dr. Thomas Nothnagel at Quenlinburg, Germany.
- The next meeting of the Tomato working group is planned for the spring of 2008 and will be organized by Dr. Pim Lindhout at Wageningen, The Netherlands.
- Fruit**      **Section Meeting. Zaragoza, Spain**  
23-28 September 2007  
Info: Rafael Socias  
e-mail: rsocias@aragon.es
- Ornamentals**      **Section Meeting. Sanremo / Bordighera, Italy**  
**"Breeding for Beauty"**  
11 - 15 September 2006  
Info: Dr. Antonio Mercuri  
Secretary Organizing Committee  
a.mercuri@istflori.it  
www.istflori.it
- Oil and Protein Crops**      The next meeting probably will take place in 2007. Updated information will be posted in the web page of EUCARPIA (<http://www.eucarpia.org>)
- Organic Breeding Working Group**      **Organic Breeding Working Group Meeting. Wageningen, The Netherlands**  
7-9 November 2007  
Info: Edith Lammerts van Bueren  
E-mail: e.lammerts@louisbol.nl

**General  
EUCARPIA  
Congress**

**XVIIIth EUCARPIA General Congress. Valencia, Spain**

The tentative dates for the General Congress are 11-14 September 2008.

The general subject of this Congress has not been fixed yet but the idea is to set it around the subject "Plant Breeding for the Future".

More detail information will follow at a later stage.

Information: [eucarpia@upvnet.upv.es](mailto:eucarpia@upvnet.upv.es)

## **MEETINGS AND CONFERENCES OF RELATED ORGANISATIONS**

### **10<sup>th</sup> International Conference on Agricultural Biotechnology: Facts, Analysis and Policies, Ravello, Italy**

29 June-2 July 2006

Further information: [icabr@economia.uniroma2.it](mailto:icabr@economia.uniroma2.it)

Web-site: <http://www.economia.uniroma2.it/conferenze/icabr2006/>

### **XIXth International Congress on Sexual Plant Reproduction, Budapest, Hungary**

11-15 July 2006

Further information: [biszkup@katki.hu](mailto:biszkup@katki.hu)

Web-site: <http://www.altagra.hu/icspr/>

### **90<sup>th</sup> Annual Meeting of the Potato Association of America, IV International Solanaceae Conference and Solanaceae Genomics Network Meeting, Madison, Wisconsin, USA Solanaceae - Genomics meets Biodiversity**

23-27 July 2006

Further information: [dspooner@wisc.edu](mailto:dspooner@wisc.edu)

Web-site: <http://www.horticulture.wisc.edu/PAA-Solanaceae/>

### **27<sup>th</sup> International Horticultural Congress, Seoul, Korea Global Horticulture: Diversity and Harmony**

13-19 August 2006

Further information: [info@ihc2006.org](mailto:info@ihc2006.org)

Web-site: <http://www.ihc2006.org/home/eng/>

### **8<sup>th</sup> International Congress on Plant Molecular Biology, Adelaide, Australia**

21-25 August 2006

Further information: [ispmb@sallyjayconferences.com.au](mailto:ispmb@sallyjayconferences.com.au)

Web-site: <http://www.sallyjayconferences.com.au/ispmb2006/>

### **1<sup>st</sup> International Meeting on Cassava Plant Breeding and Biotechnology, Brasilia, Brasil**

11-15 November 2006

Further information: [nagnassa@rudah.com.br](mailto:nagnassa@rudah.com.br)

Web-site: <http://www.geneconserve.pro.br/meeting/>

## RECENT EUCARPIA PUBLICATIONS

- General**     **Genetic Variation for Plant Breeding. Selected Papers Presented at the 17th EUCARPIA General Congress, Tulln, Austria, 8-11 September 2004**  
Published as a Special Issue of Euphytica: Euphytica 146 No. 1-2 2005  
Obtainable from: Kluwer Academic Publishers  
Abstracts available at: <http://www.kluweronline.com/issn/0014-2336>
- Genetic Variation for Plant Breeding**  
Proceedings of the 17th EUCARPIA Congress, Tulln, Austria, 8-11 September, 2004  
ISBN 3-900962-56-1  
Editors: **J. Vollmann, H. Grausgruber and P. Ruckenbauer**  
Published: 2004 by BOKU – University of Natural Resources and Applied Life Sciences, Vienna, Austria  
Price: € 45.- (EUCARPIA members) or € 65.- (non-EUCARPIA members)  
Obtainable from: Johann Vollmann  
BOKU / Pflanzenbau und Pflanzenzuechtung  
Gregor Mendel Strasse 33  
A-1180 Vienna, Austria  
Fax: +43 1 47654-3342  
e-mail: [hans.vollmann@iname.com](mailto:hans.vollmann@iname.com)
- Potatoes**     **Breeding Research for Resistance to Pathogens and for Quality Traits. Abstracts of the Joint Conference of the EAPR Section Breeding and Varietal Assessment and the EUCARPIA Section Potatoes, Warsaw, Poland, 3-7 July, 2000**  
ISBN 83-87109-47-9  
Editor: **Barbara Czech**  
Published: IHAR, Młochów Research Center, Poland  
Obtainable from: Barbara Czech  
Plant Breeding and Acclimatization Institute (IHAR)  
Młochów, PL 05-831 Młochów, Poland  
Fax: +48 22 729947  
E-mail: [b.czech@ihar.edu.pl](mailto:b.czech@ihar.edu.pl)
- Cereals**     **From Biodiversity to Genomics: Breeding Strategies for Small Grain Cereals in the Third Millennium**  
Proceedings, EUCARPIA Cereal Section Meeting, Salsomaggiore, Italy, 21-25 November 2002  
Publisher: Experimental Institute for Cereal Research, Fiorenzuola d'Arda (PC), Italy  
Editors: C. Marè, P. Faccioli and A.M. Stanca  
Published: December 2003
- Proceedings of the 5th International Triticale Symposium Radzików, Poland, 30 June - 5 July 2002**  
Volume 1 (ISBN 83-89172-01-1), Volume 2 (ISBN 83-89172-02-X), Supplement (ISBN 83-89172-03-8)  
Editor: **E. Arseniuk**  
Published: June 2002  
Total price: € 50.--  
Obtainable from: Plant Breeding and Acclimatization Institute, Radzików 05-870 Blonie, Poland  
Fax: +48 22 7254714  
E-mail: [e.arseniuk@ihar.edu.pl](mailto:e.arseniuk@ihar.edu.pl)
- Proceedings of the EUCARPIA Rye Meeting Radzików, Poland, 4-7 July 2001**  
ISBN 83-89172-00-3  
Editor: **Plant Breeding and Acclimatization Institute**  
Published: March 2002  
Obtainable from: Plant Breeding and Acclimatization Institute, Radzików 05-870 Blonie, Poland

Fax: +48 22 7254714  
E-mail: postbox@ihar.edu.pl

**Fodder  
Crops and  
Amenity  
Grasses**

**International Symposium on Grass Breeding**

Meeting of the EUCARPIA Section Fodder Crops and Amenity Grasses, 22-25 September 2002, Bundesforschungsanstalt für Landwirtschaft (FAL) Braunschweig, Germany.

Editors: **U.K. Posselt and J.M. Greef**

Published in: Vorträge für Pflanzenzüchtung, Issue 59 (ISSN 0723-7812), 2003.

**Breeding for Stress Tolerance in Fodder Crops and Amenity Grasses,  
Proceedings of the 23rd Meeting of the Fodder Crops and Amenity Grasses Section of  
EUCARPIA, Azores, Portugal, 1-4 October 2000**

ISBN 972-8612-05-2

Editors: **P. Monjardino, A. da Camara and V. Carnide**

Published: Department of Agricultural Sciences, University of Azores,  
Terceira Island, Azores, Portugal, 2001

Price: € 20.--

Obtainable from: P. Monjardino, Universidade dos Acores

Departamento de Ciências Agrárias

9701-851 Angra do Heroísmo, Azores, Portugal

Fax: +351 095 402205

E-mail: paulo@angra.uac.pt

**New Approaches and Techniques in Breeding Sustainable Fodder Crops and Amenity  
Grasses**

Proceedings of the 22nd EUCARPIA Fodder Crops and Amenity Grasses Section Meeting,  
St. Petersburg, Russia, 17-21 October, 1999

Editors: N.A. Provorov, I.A. Tikhonovich and F. Veronesi

Published: N.I. Vavilov All-Russian Institute of Plant Industry, 2000

Obtainable from: I.A. Tikhonovich

ARRIAM, Podbelsky sh. 3, 189620 St. Petersburg, Russia

Fax: +7 8124704362

E-mail: biotec@riam.spb.su

**Biometrics  
in Plant  
Breeding**

**Proceedings of the XII EUCARPIA Biometrics in Plant Breeding Conference, held in A  
Coruña, Spain, 3-5 September 2003 Selected Papers**

Published as a Special Issue of Euphytica: Euphytica 137 No. 1 2004

Obtainable from: Kluwer Academic Publishers

Abstracts available at: <http://www.kluweronline.com/issn/0014-2336>

**Quantitative genetics and breeding methods: the way ahead.**

**Proceedings of the Eleventh Meeting of the EUCARPIA Section Biometrics in Plant  
Breeding, Paris, France, 30/31 August-1 September, 2000**

ISBN 2-7380-0952-2

Editors: **A. Gallais, C. Dillmann and I. Goldringer**

Published: INRA, Paris 2001

Obtainable from: INRA Editions

RD 10 - F-78026 Versailles Cedex, France

**Genetic  
Resources**

**Broad Variation and Precise Characterization - Limitation for the Future**

**XVIth EUCARPIA Section Genetic Resources Workshop Poznan, Poland, 16-20 May  
2001**

ISBN 83-88518-47-X

Editors: **W. Swiecicki, B. Naganowska and B. Wolko**

Published: 2001

Obtainable from: Institute of Plant Genetics

Polish Academy of Sciences

Strzeszynska 34, PL-60-479 Poznan, Poland

Fax: +48 61 8233671

E-mail: office@igr.poznan.pl

## **Maize and Sorghum**

**Maize and Sorghum Breeding at the End of 21st Century, Proceedings of the 18th Conference, Belgrade, Yugoslavia, 4-9 June, 2000**  
YU ISSN 0534-012

Editors: **J. Dumanovic, K. Konstantinov and J. van Waes**

Published: Acta Biologica Iugoslavica, Serija F, Genetika, Vol. 32, No. 3

Price: € 75.--

Obtainable from: Mrs. Kosana Konstantinov

Maize Research Institute 'Zemun Polje'

YU-11080 Belgrade, Yugoslavia

Tel.: +381 113756704

Fax: +381 113754994

E-mail: kkosana@mrizp.co.yu

## **Vegetables**

**EUCARPIA Cucurbitaceae 2004.**

Progress in Cucurbit Genetics and Breeding Research. Proceedings of Cucurbitaceae 2004, the 8th EUCARPIA Meeting on Cucurbit Genetics and Breeding.

Olomouc, Czech Republic, 12-17 July, 2004

ISBN 80-86636-04-6

Price: € 50.-

Published: Palacký University Olomouc, Czech Republic

Obtainable from: A. Lebeda, Palacky University, Faculty of Science

Department of Botany, Slechtitelu 11, CZ-783 71 Olomouc, Czech Republic

Fax: +420 68 5241027

E-mail: lebeda@prfholnt.upol.cz

**EUCARPIA Capsicum and eggplant 2004**

*Proceedings of the XIIth Meeting on Genetics and Breeding of Capsicum and Eggplant*

Noordwijkerhout, The Netherlands, 17-19 May, 2004

Editors: R.E. Voorrips

Published: Noordwijkerhout, 2004

Obtainable from: R.E. Voorrips

Plant Research International, Wageningen UR, P.O. Box 16, 6700 Wageningen

E-mail: re\_voorrips@yahoo.com

**EUCARPIA Leafy Vegetables 2003.**

**Proceedings of the EUCARPIA Meeting on Leafy Vegetables Genetics and Breeding,**

Noordwijkerhout, The Netherlands, 19-21 March 2003

Editors: Th.J.L. van Hintum, A. Lebeda, D.A. Pink and J.W. Schut

Published: Centre for Genetic Resources, The Netherlands (CGN), Wageningen, The Netherlands

Online-access of full papers: <http://www.leafyvegetables.nl/papers.htm>

**Proceedings of the XIth Meeting on Genetics and Breeding of Capsicum and Eggplant, Antalya, Turkey, 9-13 April, 2001**

ISBN 975-487/085-3

Editors: **K. Abak, S. Büyükalaca and Y. Dasgan**

Published: Adana, 2001

Proceedings are no more available.

**EUCARPIA Tomato '2000.**

**Proceedings of the XIVth Meeting of the EUCARPIA Tomato Working Group, Warsaw, Poland, 20-24 August, 2000**

Editor: **E. Nalborczyk**

Published: Acta Physiologiae Plantarum Vol. 22 No. 3, 2000

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**Capsicum and Eggplant Newsletter No. 19, 2000**  
**Capsicum and Eggplant Newsletter No. 20, 2001**  
**Capsicum and Eggplant Newsletter No. 21, 2002**  
**Capsicum and Eggplant Newsletter No. 22, 2003**  
**Capsicum and Eggplant Newsletter No. 23, 2004**

ISSN 1122-5548

Editor: **P. Belletti**

Price: € 30.-- or € 150.-- (supporters)

Obtainable from: P. Belletti, University of Turin

DI.VA.P.R.A. - Agricultural Genetics

Via Leonardo da Vinci, 44, I-10095 Grugliasco TO, Italy

Fax: +39 011 6708826

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**Cruciferae Newsletter No. 22, April 2000**

**Cruciferae Newsletter No. 23, April 2001**

**Cruciferae Newsletter No. 24, July 2002**

ISSN 0263-9459

Editor: **INRA Rennes**

Obtainable from: The Editor Cruciferae Newsletter

INRA - Station d'Amélioration des Plantes

BP 29, F-35650 Le Rheu, France

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**EUCARPIA Fruit Breeding Section Newsletter No. 5, 2001**

Obtainable from: Genbank Obst

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Editors: **J. Van Huylenbroeck, E. Van Bockstaele and P. Debergh**

Volume 1: Acta Horticulturae 552, July 2001, ISBN 90-6605-834 X

Price: € 53.-- (for non-members of ISHS)

Volume 2: Acta Horticulturae 572, February 2002, ISBN 90-6605-825 0

Price: € 55.-- (for non-members of ISHS)

Obtainable from: Secretariat ISHS

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**Proceedings of the Meeting of the Section Oil and Protein Crops, Pontevedra, Spain, 1-4 April, 1998**

Published: MBG-CSIC, Pontevedra, Spain 1998

Obtainable from: A.M. De Ron

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