

## PDF Annex 4: Evaluation Grid (3) Evaluation based on Five Criteria

Abbreviation: C/P-counterpart personnel J/E-Japanese expert

## 1. RELEVANCE:

Item	Source	Method	Evaluation
<b>1.1 Overall Goal</b>			
(1) Relevance with the needs of the Argentine Republic.	C/P, J/E policy document	Questionnaire, interviews	The Overall Goal is relevant with the needs of Argentine. Once, floricultural farmers in Argentine were allowed to propagate, grow and sell flowering plants introduced from foreign countries freely. However, since the Government ratified the United Protection of Vegetation Act in 1994, it has become impossible for them to continue private propagation: they have to pay the patent fee to the private enterprises and to purchase the nursery plants. In addition, the fixed currency system adopted in 1991 caused extensive inflow of more competitive cut-flowers to the domestic market from neighbor countries. The floating exchange rate system was re-introduced in December 2002, which has raised prices of materials, including imported nursery plants. In order to address such unfavorable situations, improvement of the quality of flower production is considered to be very important.
(2) Relevance with the national policies	C/P, J/E policy document	Questionnaire, interviews, review of the document	There are no national policies related to floricultural production. However, the Government regards improvement of flower production as one of the important issues and has approved establishment of Institute of Floriculture.
<b>1.2 Project Purpose</b>			
(1) Relevance with organizational needs of INTA	C/P, J/E	Questionnaire, interviews	Floriculture is included in a sub-sector of the National Research Programme of INTA. The Project Purpose is relevant with the needs of INTA.
(2) Relevance with the needs of local beneficiaries	C/P, J/E	Questionnaire, interviews	Although there exists a lot of potential ornamental species in this vast country, only some species, such as <i>Alstroemeria</i> , <i>Begonia</i> , <i>Canna</i> , <i>Calceolaria</i> , <i>Fuchsia</i> , <i>Petunia</i> and <i>Verbena</i> etc. have been developed into floricultural cultivars globally. Enhancement of research activities that contribute to development of new cultivars, which are not found in foreign markets and may be appreciated there, would be beneficial to local flower producers. The Project Purpose is considered to be relevant with their needs.
<b>1.3 Project Design</b>	C/P, J/E, PDM	Questionnaire, interviews, review of PDM	Although logical relationship among the components of the PDM was found generally appropriate, some editorial modifications had to be made in order for the experts, their C/Ps, and other people concerned to clearly understand what the descriptions meant. In addition, there was a considerable gap between the Overall Goal and the Project Purpose. Thus, the Overall Goal "Income of floricultural farmers will be augmented through improvement of floricultural products in the Argentine Republic" was subdivided into "Floricultural products in the Argentine Republic will be improved", which was set as new Overall Goal and "Income of floricultural farmers will be augmented", which was set as newly created Super Goal.

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## 2. EFFECTIVENESS :

Items	Source	Methods	Evaluation
2.1 Achievement level of Project Purpose	Accomplishment grid, technical reports, C/P, J/E	Review of the documents, questionnaire, interviews	The research activities on floriculture have been greatly enhanced by the Project. Techniques and methods of developing breeding materials (i.e. collection, evaluation and preservation of plants), breeding, and propagation have been developed and C/P have acquired basic knowledge and techniques to conduct the related research by themselves. It is expected that the Project Purpose will be fully achieved by the end of the Project.
2.2 Contribution of Outputs	-do-	-do-	
(1) Output 1	-do-	-do-	Technique of exploration, collection, evaluation, and preservation of the breeding materials have been developed and transferred to C/Ps. Genetic variabilities of important genus have been collected as breeding materials (i.e. <i>Tabebuia</i> , <i>Jacaranda</i> , <i>Tecoma</i> , <i>Nierembergia</i> , <i>Calibrachoa</i> , <i>Scoparia</i> , <i>Ruellia</i> , <i>Cassia</i> , and <i>Sesbania</i> ). Through establishing the techniques of collection and evaluation, not only raw materials but also information indispensable for development of new materials has been accumulated. Database for evaluation of the collected plants have been already developed and approximately 2,000 accessions have been registered. In addition, CEEP/RWWT, a strategy for development of breeding materials in collaboration with local growers, foreign enterprises, etc., the concept of which is new to Argentine, has been developed. It is expected that Output 1 will be fully achieved by the end of the Project and will contribute to the achievement of the Project Purpose.
(2) Output 2	-do-	-do-	Various breeding techniques have been developed and transferred to C/P. Eight descriptors of five species have been prepared. The guideline for breeding has been prepared. Moreover, ten new cultivars of four genus (i.e. <i>Lilium</i> , <i>Nierembergia</i> , <i>Tecoma</i> and <i>Tabebuia</i> ) have been created for registration with INASE. Moreover, the results were presented at the 1 <sup>st</sup> National Congress held in Argentina (32 reports) and "V. International Symposium on New Floricultural Crops" held in Brasil (7 reports) in August 2003. In addition, 2 articles were accepted to the Journal of the Japanese Society for Horticultural Science as original scientific papers. It is expected that Output 2 will be fully achieved by the end of the Project and will lead to achievement of the Project Purpose.
(3) Output 3	-do-	-do-	Propagation techniques using conventional methods and tissue culture have been developed and transferred to C/P. So far, propagules of six of nine important genus collected under Output 1. (i.e. <i>Tabebuia</i> , <i>Jacaranda</i> , <i>Tecoma</i> , <i>Nierembergia</i> , <i>Calibrachoa</i> , and <i>Scoparia</i> ). It is expected that Output 3 will be fully achieved by the end of the Project and will lead to achievement of the Project Purpose.

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## 3. EFFICIENCY:

Items	Source	Methods	Evaluation
3.1 Achievement level of Outputs in relation to Inputs	Accomplishment grid, technical reports, C/P, J/E	Review of the documents, questionnaire, interviews	All the Outputs of the Project are expected to be fully achieved by the end of the Project. Judging from that, provision of Inputs has been implemented efficiently in general.
3.2 Inputs (utilization, timing, quality and quantity)	Accomplishment grid, C/P, J/E, field survey	Review of the grid, questionnaire, interviews, observation	
(1) Japanese side	-do-	-do-	
(a) Long-term expert	-do-	-do-	<u>Adequate</u> : In general, long-term experts have been dispatched according to the initial plan. Their quality and technical fields have been appropriate to achieve the Outputs.
(b) Short-term expert	-do-	-do-	<u>Adequate</u> : Short-term experts with relevant technical levels have been dispatched in timely manner.
(c) C/P training	-do-	-do-	<u>Mostly adequate</u> : The C/P training in Japan has been implemented mostly according to the initial plan. In general, C/P have been able to utilize the knowledge and techniques they acquired in Japan. However, it would have been more efficient if contents and fields of training had been clearer.
(d) Equipment and machinery	-do-	-do-	<u>Adequate</u> : Almost all of the equipment was supplied in the first half of the Project period as planned, which contributed to smooth implementation. Other equipment and facilities that belong to CETEFFHO have been made available for use by the Project.
(e) Local costs for the Project activities			<u>Adequate</u> : Local costs have been disbursed in timely manner, which have supported the smooth implementation of the Project Activities.
(2) Argentine side			
(a) Land, infrastructure	Accomplishment grid, C/P, J/E	Review of the grid, questionnaire, interviews	<u>Adequate</u> : In the first two years, land, office spaces, etc. were provided by the Argentine side (i.e. Institute for Biological Research: IRB). Since 2001, the Project Office has moved into the building of CETEFFHO.
(b) C/P personnel	-do-	-do-	<u>Mostly adequate</u> : Although the number of C/P was only three in the beginning, two more persons joined in the second year. All of them are qualified researchers with degree of agricultural engineering.
(c) Running expenses	-do-	-do-	<u>Mostly adequate</u> : Despite economic crisis in Argentine, INTA had made a great effort in providing running expenses. Although there was a period when the provision was not sufficient, this has not affected implementation of the Project adversely.

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## 4. IMPACT:

Items	Source	Methods	Evaluation
<b>4.1 Impact at Overall Goal level</b>			
(1) Expected achievement of Overall Goal	Accomplishment grid, technical reports, C/P, J/E, beneficiaries	Review of the documents, questionnaire, interviews	It is likely that the Overall Goal will be achieved several years after termination of the Project. With the acquired capacity, INTA (i.e. envisaged Institute of Floriculture) has become able to introduce not only raw materials but also new varieties, breeding lines, and/or accessions with evaluated data, etc. to private enterprises. It is now in a better position to attract business partners from domestic and foreign markets. These factors are considered to lead to improvement of floriculture production in the Argentine.
<b>4.2 Other impacts</b>			
(1) Institutional impact	C/P, J/E	Questionnaire, interviews	Recognizing the effectiveness of the techniques transferred by the Project, the inquiries and references have been made by overseas researchers and private companies. INTA is beginning to be acknowledged internationally for its floricultural research.
(2) Economic impact	-do-	-do-	No economic impacts have been observed so far. However, a strategy for development of breeding materials in collaboration with local growers, foreign enterprises, etc., that has been formulated by the Project (i.e. CEEP/RWWT) has already attracted several enterprises. Although its concept is still new to Argentine, once widely adapted, it has a potential to bring about economic impact to Argentine.
(3) Technical impact	-do-	-do-	Techniques developed in the Project have been presented and well received in a series of meetings on floriculture ("Jornada Nacional de Floricultura"), participated by researchers and farmers. Using the techniques developed by the Project, some of the regional INTA experiment stations have already started collection and evaluation of native plants for ornamental use. There have been requests of training from other research organizations: about 30 interns have been received so far, whose principle advisors have been C/P. It is expected that the number of researchers specialized in floriculture will increase. In addition, C/Ps have developed a research plan on material selection for breeding of new varieties based on the results of the Project and have successfully obtained the research budget for 3 years within INTA.
(4) Environmental impact	-do-	-do-	Through the Project, the potentials of genetic resources in Argentine for ornamental use have been re-confirmed. The importance of flower germplasm, which had been overlooked in the past time, have come to be recognized through a series of national meetings of horticulture or some international conventions, etc.. Moreover, a model of sustainable utilization of the genetic resources of ornamental plants (i.e. CEEP/RWWT) has been prepared based on the Convention on Biological Diversity, which will be presented in a national workshop on native plants in April 2004 for approval by the authorities concerned.

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Items	Source	Methods	Evaluation
(5) Social impact	-do-	-do-	<p>A network, which link together researchers specialized or interested in floriculture in Argentine, has began to be formed. The first Argentine Congress of Floriculture and Ornamental Plants was organized in November 2002. It is planned that, at the second Congress meeting scheduled to be held in October 2004, the permanent committee on floriculture will be established.</p> <p>Through the Project, the cultivars created from native ornamental plants (the cultivars of <i>Nierembergia</i>, Luna INTA-JICA and Estrella INTA-JICA) were registered with INASE for the first time in the history. It is expected that local farmers would become aware of breeder's rights over the cultivars developed from native plants: some of them may become interested in registration by themselves.</p> <p>The Project activities have been introduced by various agricultural magazines including "Super Campo", newspapers, TV, etc., which has promoted awareness on importance of floriculture nationally.</p>

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## 5. SUSTAINABILITY:

Items	Source	Methods	Evaluation
<b>5.1 Institutional Aspects</b>			
(1) Policy support	C/P, J/E	Questionnaire, interviews	INTA was established by Article 16 of Decree Law 21.680 of December 4 of 1956, ratified by the Law No. 14.467. It became an autarchy agency on August 15, 2000 by the Law 25.641. Activities of INTA have a legal support, which is expected to continue.
(2) C/P personnel	-do-	-do-	It is planned that all the C/P will be automatically transferred to IF in December 2004, when IF is launched. By then, they are expected to continue to work at IRB/INTA. Since internal structure of IF has not been finalized, their exact positions at IF are yet to be known.
(3) Management capacity of INTA	-do-	-do-	Since INTA has managed the research programmes, including this Project, properly, it is assumed that it has sufficient management capacity to carry out floricultural research by themselves after the end of the Project.
(4) Coordination with other organizations	-do-	-do-	The Project has already started to develop collaborative relations with the relevant agencies, private enterprises, universities, and research institutes (ex. National Agency on Research and Development, producer leaders, foreign companies, Cordoba University, University of Buenos Aires, and Council of Research, Science and Techniques).
<b>5.2 Financial Aspects</b>	-do-	-do-	INTA, as an autonomous agency, is entitled to receive 0.5% of import duties for its activities. In addition, there is a possibility for envisaged IF to generate income through implementing joint evaluation projects with foreign enterprises and/or obtaining patent fees from local flower produces, utilizing the proposed CEEP/RWWT, which has already attracted some companies.
<b>5.3 Technological Aspects</b>			
(1) Technical capacity	Technical reports, C/P, J/E	Review of the reports, questionnaires, interviews	The C/P have acquired sufficient capacity to utilize the techniques transferred and to conduct basic research by themselves after the end of the Project.
(2) Utilization and dissemination of techniques by INTA	Technical reports, C/P, J/E	-do-	It is expected that techniques and methods developed by the Project will be utilized by the envisaged IF. In addition, INTA Regional INTA experiment stations have already started collection and evaluation of native ornamental plants, utilizing the methods developed by the Project. Some of the techniques and methods (i.e. exploration, collection, cross breeding and conventional propagation) are relatively simple and could be easily adapted by local farmers. They are expected to be disseminated through extension programme of INTA.
(3) Utilization of machinery and equipment	-do-	-do-	The provided equipment and machinery are essential to carry out floricultural research and therefore is expected to be utilized fully after the end of the Project. It is also expected they will be operated and maintained appropriately by the C/P.

## Annex A

## Research Activities in PDF

## 1. List of Scientific Report &amp; Original Papers

Date of Publication	Name of Literature or Journal / Volume / No. / Page	No. of Achievement	Title and Authors	Publishers	Remarks
Apr. 2003	Publicación en Revista de Investigaciones Agropecuarias INTA 32(1):111-122.	1	Combinación de técnicas <i>in vitro</i> y <i>ex vitro</i> para la micropropagación de Santa Rita. (Hibr.) una arbutiva de relevancia ornamental. Escandón, A.S., Ferrari, P., Facciuto, G., Soto, S., Hagiwara, J.C. y Acevedo, A.	INTA	PDF
Oct. 2003	Floricultura en la Argentina. p. 3-11	2	Puesta a punto de la técnica de microsátélites anclados para la caracterización de individuos selectos de jacarandá. Pérez de la Torre, M., A. Acevedo, J. C. Serpa, I. Miyajima and A. Escandón.	Editorial Facultad de Agronomía Universidad de Buenos Aires	PDF
Oct. 2003	Floricultura en la Argentina. p. 45-54.	3	Ensayos para la micropropagación de diferentes genotipos de jacarandá. M. Trotta, M. Alderete, J. C. Serpa, G Facciuto, S. Soto, J.C. Hagiwara, A. Kato, N. Kobayashi and A. Escandón.	Editorial Facultad de Agronomía Universidad de Buenos Aires	PDF
Jan. 2004	Journal of the Japanese Society for Horticultural Science 73(1): xx-xx.	4	A new pot plant variety bred by interspecific crossing between <i>Tecoma stans</i> (L.) H. B. K. and <i>T. garrocha</i> Hieron. Kobayashi, N., J. C. Hagiwara, I. Miyajima, G Facciuto, S. Soto, D. Mata and A. Escandón.	The Japanese Society for Horticultural Science.	PDF
Mar. 2004	Journal of the Japanese Society for Horticultural Science 73(2): xx-xx.	5	Practical method of propagation of <i>Jacaranda mimosifolia</i> by cuttings. Miyajima, I., D. Mata, N. Kobayashi, G Facciuto, S. Soto, J. C. Hagiwara, J. C. Serpa and A. Escandón.	The Japanese Society for Horticultural Science.	PDF
-	Acta Horticulturae (Accepted)	6	Propagation of new <i>Tabebuia heptaphylla</i> ("lapacho") clones through grafting : rootstock influence. Facciuto, G, Soto, S., Mata, D., Hagiwara, J.C., Miyajima, I and Kobayashi, N.	International Society for Horticultural Science	PDF

## 2. Presentations in Congress /International symposium

Date	Name of Congress	No. of Achievement	Title and Authors	Place of Congress	Remarks
Jun. 27-29, 2000	Jornadas de Floricultura CETEFFHO-JICA	7	Proyecto de Desarrollo de la Floricultura INTA-JICA. G Facciuto	CETEFFHO	PDF
Dec. 5-6, 2000	II. Jornadas Nacionales de Floricultura	8	Ensayos preliminares de poliploidización en especies nativas con interés ornamental. S. Soto, G Facciuto, J.C. Hagiwara, A. Escandón, J.C. Serpa.	Córdoba	PDF
Nov. 7-9, 2001	III. Jornadas Nacionales de Floricultura	9	Puesta a punto de protocolo "in vitro" para la multiplicación de <i>Bougainvillea</i> (hibr.). Una semileñosa de interés ornamental. A. Escandón, P. Ferrari, P. Bracalenti, S. Soto, G Facciuto, J.C. Hagiwara y J.C. Serpa.	Mendoza	PDF
		10	Cruzamiento interspecíficos en el género <i>Tecoma</i> con fines ornamentales. J.C. Hagiwara, G Facciuto, S. Soto, J.C. Serpa, A. Escandón, N. Kobayashi y K. Arisumi.		PDF
		11	Multiplicación in vitro de <i>Jacaranda mimosifolia</i> . Una leñosa de importancia ornamental. J.C. Serpa, G Facciuto, S. Soto, J.C. Hagiwara, M. Trotta, M. Anderete y A. Escandón		PDF
Oct. 20-22, 2002	V. Simposio de Biotecnología Vegetal	12	Desarrollo de la Floricultura en la Argentina Convenio INTA-JICA (1999-2004) Avances. A. Escandón.	Buenos Aires	PDF
		13	Combinación de técnicas <i>in vitro</i> e <i>in vivo</i> para la multiplicación de <i>Bougainvillea</i> (Santa Rita). Una semileñosa de interés ornamental. Escandón, A., Trotta, M., Alderete, M., Facciuto, G, Soto, S., Hagiwara, J.C. y Acevedo, A.		PDF
		14	Jacarandá 1: Evaluación de los requerimientos nutricionales de <i>J. mimosifolia</i> para su multiplicación masal <i>in vitro</i> . Serpa, J.C., Facciuto, G, Soto, S., Hagiwara, J.C., Trotta, M., Alderete, M., Miyajima, I., Kobayashi, N. y Escandón, A.		PDF
		15	Jacarandá 2: Micropropagación de diferentes genotipos de <i>J. mimosifolia</i> . Trotta, M., Alderete, M., Facciuto, G, Soto, S., Hagiwara, J.C., Kato, A. y Escandón, A.		PDF
		16	El uso de microsatélites anclados para la caracterización de individuos selectos de <i>Jacaranda mimosifolia</i> . Pérez de la Torre, M., Acevedo, A., Serpa, J.C. y Escandón, A.		PDF
Nov. 13-16, 2002	1er Congreso Argentino de Floricultura y Plantas Ornamentales	17	Caracterización objetiva del aroma de distintos genotipos de <i>Tabebuia heptaphylla</i> (lapacho rosado): primeros resultados. Facciuto, G, Grigioni, G, Irueta, M. y Kobayashi, N.	University of Buenos Aires	PDF
		18	Caracterización del comportamiento de tres especies nativas del género <i>Senna</i> (Fabaceae) observadas en el arbolado público de la provincia de Buenos Aires. Greppi, J.A., Soto, S. y Hagiwara J.C.		PDF
		19	Multiplicación in vitro de <i>Scoparia montevidensis</i> , una herbácea con potencial ornamental como planta en maceta o para borduras. Bracalenti, P., Soto, S., Kobayashi,		PDF



Apr. 11-13, 2003	XXX. Congreso Nacional de Viveristas	20	N y Escandón, A. Ruptura de la autoincompatibilidad a través de poliploidía inducida en <i>Nierembergia linearifolia</i> . Soto, S., Kokubun, H., Fernandez, M., Hagiwara, J.C., Facciuto, G., Mata, D. y Serpa, J.C.		PDF
		21	Avances en la clonación masal <i>in vivo</i> de individuos seleccionados de <i>Tabebuia heptaphylla</i> (lapacho rosado). Mata, D.A., Facciuto, G., Soto, S., Hagiwara J.C., Bualó R. y N. Kobayashi.		CETEF/ PDF
		22	Ensayos para la micropropagación de diferentes genotipos de Jacarandá ( <i>Jacaranda mimosifolia</i> ). Trota, M., Alderete, M., Serpa, J.C., Facciuto, G., Soto, S., Hagiwara, J.C., Kato, A., Kobayashi, N. y Escandón, A.		CETEF/ PDF
		23	Ensayos para la puesta a punto de la rizogénesis <i>in vitro</i> en lapacho rosado ( <i>Tabebuia heptaphylla</i> ). Kato, A., Escandón, A., Coviella, A., Anderete, M., Facciuto, G. y Miyajima, I.		CETEF/ PDF
		24	Mejoramiento de las características ornamentales de <i>Tabebuia heptaphylla</i> (lapacho rosado) a través de la poliploidía. Facciuto, G., J. C. Hagiwara, J.C. Serpa, S. Soto, N. Kobayashi y K. Arisumi.		PDF
		25	Obtención de poliploides en <i>Calibrachoa pygmaea</i> mediante el uso de colchicina <i>in vitro</i> . Hagiwara, J.C., A. Kato, M. Mori y I. Miyajima.		CETEF/ PDF
		26	Propagación de <i>Jacaranda mimosifolia</i> a partir de estacas de brotes herbáceos. Mata, D.A., G. Facciuto, S. Soto, J.C. Hagiwara, J.C. Serpa y N. Kobayashi.		PDF
		27	Puesta a punto de la técnica de microsátelites anclados para la caracterización de individuos selectos de Jacarandá. Pérez de la Torre, M., Acevedo, A., Serpa, J.C., Miyajima, I. y Escandón, A.		PDF
		28	Uso de retardadores en el crecimiento y floración de una variedad seleccionada de <i>Tecoma stans</i> var. <i>stans</i> . Hagiwara, J.C., G. Facciuto y N. Kobayashi.		PDF
		29	Efecto del fotoperíodo y la temperatura en el crecimiento vegetativo de jacarandá ( <i>Jacaranda mimosifolia</i> ) y lapacho ( <i>Tabebuia heptaphylla</i> ). Bualó, R., Facciuto, G., Morisigue, D., Bullrich, L., Morita, M. y Kobayashi, N.		CETEF/ PDF
		30	Mejoramiento del color de la flor en <i>Cyclamen</i> . Obtención de <i>Cyclamen</i> de color amarillo. Miyajima, I.		PDF
Apr. 11-13, 2003	XXX. Congreso Nacional de Viveristas	31	Desarrollo de la Floricultura en la Argentina. Facciuto, G	Escobar	PDF
Aug. 4-7, 2003	Taller: Uso, manejo y protección legal de germoplasma nativo en	32	Desarrollo de Germoplasma Ornamental a partir de Recursos Genéticos Nativas. G. Facciuto, E. Suarez.	Ushuaia	PDF

	la patagonia.			Publicaciones	PDF
Aug. 2003	Publicación en Revista IDIA XXI. Horticultura y Floricultura.	33	Convenio INTA-JICA. Desarrollo de germoplasma Nativo con Interés Ornamental. G Facciuto, A. Escandón.	INTA	PDF
Aug. 26-30, 2003	V. International Symposium on New Floricultural Crops	34	The use of ISSR molecular markers for the genetic characterization in genus <i>Jacaranda</i> (Bignoniaceae). Escandón, A., M. De la Torre, P. Acevedo, A. Miyajima, I. and Kobayashi, N.	Iguazu (Brazil)	PDF
		35	Propagation of new Lapacho ( <i>Tabebuia heptaphylla</i> ) clones through grafting method: rootstock influence. Facciuto, G, Soto, S., Mata, D., Hagiwara, J.C., Miyajima, I and Kobayashi, N.		PDF
		36	Promotion of immature seeds germination in <i>Jacaranda</i> (Bignoniaceae). Miyajima, I., Kato, A., Hagiwara, J.C., Facciuto, G and Kobayashi, N.		PDF
		37	Morphological characterization of induced tetraploids from three native Bignoniaceae in Argentina. Mata, D.A., Facciuto, G, Hagiwara, J.C., Soto, S., Miyajima, I. and Kobayashi, N.		PDF
		38	New clones of <i>Nierembergia linearifolia</i> (Solanaceae) obtained from population native to Argentina. Soto, S., Bullrich, N.L., Mata, D., Facciuto, G, Serpa, J.C., Hagiwara, J.C., Morisigue, D., Miyajima, I. and Kobayashi, N.		PDF
		39	The Horticultural Development Project INTA-JICA in Argentine. Suárez, E., Nishiyama, K., Facciuto, G, Escandón, A., Soto, S., Hagiwara, J.C., Mata, D., Miyajima, I. and Kobayashi, N.		PDF
		40	Interspecific hybridization of <i>Tecoma</i> A.L.Juss (Bignoniaceae). Hagiwara, J.C., Facciuto, G, Soto, S., Miyajima, I. and Kobayashi, N.		PDF
Oct. 19, 2003	XXIX Jornada Argentinas de Botánica & XV Reunión Anual de la Sociedad Botánica de Chile	41	Plantas nativas con potencial ornamental. Facciuto, G, Soto, S., Hagiwara, J.C., Escandón, A., Mata, D., Kamogawa, T., Miyajima, I., Nishiyama, K. y Suárez E.	San Luis	PDF
		42	Recolecciones de especies con valor ornamental en el noroeste Argentino. Soto, S., Neumann, R., Facciuto, G, Hagiwara, J.C., Nishiyama, K., Escandón, A. y Suárez E.		PDF
Oct. 29-31, 2003	V. Jornadas Nacionales de Floricultura	43	Obtención de híbridos interespecíficos de <i>Lilium</i> a través del cultivo de discos de ovarios. G Facciuto, S. Soto, J. C. Serpa, M. Karlanian y D. Morisigue.	Tucumán	CETEF/ PDF
		44	Propagación vegetativa de <i>Tecoma</i> spp a partir de estacas. J. C. Hagiwara, D. Mata, S. Soto, G Facciuto, N. Kobayashi e I. Miyajima.		CETEF/ PDF
		45	Regeneración <i>in vitro</i> de <i>Pseudognoxys cabrerar</i> a partir de segmentos de hoja. A. Kato, M. Mori, A. Coviella, J. C. Hagiwara, Alderete, M., K. Ueno y I. Miyajima		CETEF/ PDF
		46	Evaluación de 3 nuevos cultivares de <i>Lilium híbrido</i> "LA" a partir de escamas. D. Morisigue, M. Karlanian, M. Agustín y G Facciuto.		PDF

		47	Evaluación del crecimiento de <i>Jacaranda mimosifolia</i> como planta en maceta en diferentes sustratos y niveles de fertilización. Mata, D.A., Karlanian, M., Montenegro, A. Bullrich, L. y Morisigue, D.		CETEF/ PDF
Nov. 10-14, 2003	IV. Simposio de Recursos Genéticos para América latina y el Caribe	48	Desarrollo de germoplasma de plantas ornamentales a partir de Bignoniaceas nativas. G. Facciuto, S. Soto, J. C. Hagiwara, D. Mata, A. Escandón y I. Miyajima.	Mar del Plata	PDF
		49	Ensayos preliminares para la conservación de semillas de Bignoniaceas nativas con potencial ornamental. S. Soto, J. C. Hagiwara y G. Facciuto.		PDF
		50	Aplicación de microsatélites anclados como marcadores moleculares para la construcción de una matriz de identificación molecular en nuevas variedades de chuscho del monte ( <i>Nierembergia linariaefolia</i> ). M.C. Pérez de la Torre, A. Escandón y S. Soto.		PDF
		51	El uso de herramientas biotecnológicas (cultivo de tejidos) en la domesticación y el desarrollo de germoplasma en <i>Scoparia spp.</i> A. Escandón, M. Alderete, M. Trota, G Facciuto, J. C. Hagiwara, D. Mata, S. Soto y I. Miyajima.		PDF

### 3. Project manual

Date of Publication	Title	No. of Achievement	Authors	Publishers	Remarks
Mar. 2002	Aplicaciones del cultivo in vitro en especies ornamentales	52	Kato, A., Escandón, A., Facciuto, G y Nishiyama, K.,	CETEFFHO-INTA	CETEF/ PDF

#### 4. Seminar and others

Year	Name of course (contents)	Date and place	Period	Participants	Remarks
1999	Seminar of BG base (Use of BG Base) Long time Expert and Dr. Kerry Walter: England Botanic Garden	1999.11.30~12.3 (INTA IRB)	4 days	Researchers of CETEFFHO-INTA, Botanic researchers of Latin America, 39 participants.	PDF
1999	Seminar: short term Expert (Creation of triploids by interspecific crossing and in vitro cultivation) Mii Masahiro	2000.3.31 (CETEFFHO)	1 day	Researchers of CETEFFHO and INTA, floricultural farmer and other, 50 participants	PDF
2000	Seminar in Expo INTA (Presentation of Project and Result of researches) G. Facciuto, E. Suarez	2000.11.17 (INTAIRB)	1 day	General public, 20 participants	PDF
2000	Seminar: short term Expert (Tissues culture: flowering trees and shrubs) Keiichiro Ueno	2001.3.5 (CETEFFHO)	1 day	CETEFFHO 及び INTA 研究者等約 30 名	PDF
2001	International Plant Propagators Meeting (Latin America Group) Presentation of research results by C/P G. Facciuto, S. Soto	2001.4.9 (Buenos Aires)	1 day	Relationship with the floriculture 50 participants	PDF
2001	Seminar: Search and collect of flower germplasm C/P G. Facciuto	2001.5.14 (Buenos Aires University, Faculty of Agronomy)	1 day	National researchers, teachers of University and students, approximately: 20 participants	PDF
2001	Seminar: short term Expert (Information of flower market) Yutaka Hamada	2001.11.16~22 (CETEFFHO)	2 days	Researchers of CETEFFHO-INTA, floricultural farmers, approximately: 80 participants	PDF
2002	Seminar: short term Expert (Breeding of practical cultivars in ornamental flower) Teiichi Horikoshi	2002.10.17 (CETEFFHO)	1 day	Researchers of CETEFFHO-INTA approximately: 20 participants	PDF
2002	Seminar: short term Expert (Breeding by nutation) Koji Shigematsu	2002.11.29 (CETEFFHO)	1 day	Researchers of CETEFFHO-INTA approximately: 13 participants	PDF
2002	Seminar: short term Expert (Information of flower market) Yutaka Hamada	2002.12.03 (CETEFFHO)	1 day	Researchers of CETEFFHO-INTA and others approximately: 18 participants	PDF
2003	Seminar hort term Expert ( Registration of ornamental plant) Mitsuo Yuasa	2003.02.18 (CETEFFHO)	1 day	Researchers of CETEFFHO-INTA and others approximately: 20 participants	PDF

## Annex B-1

## a. Dispatch of Japanese Expert

Horticulture Development Project in Argentine Republic  
29-12-2003

## • Long Term Experts. 9 Experts

No	Name of Experts	Specialization	Former Place of Employment	Period of dispatch	Contents of technological transfer	Remarks
1.	Yusa Kensuke	Chief Advisor	JICA	1999.5.5~2001.6.30	Organization on Project, Determination of Activity Line and Organize, etc	PDF
2.	Nishiyama Kineo	Chief Advisor	JICA	2001.7.1~2003.5.8 Extension 2003.5.9~2004.12.13	Organization on Project, Determination of Activity Line and Organize, etc	CETEFFHO
3.	Yokoshima Kentaro	Project Coordinator	JATACO	1999.5.5~2002.7.31	Assist to CA activity, Accounting Activity, Communication with the Counterpart Institution	PDF
4.	Kokubun Hisahi	Evaluation and improvement of potential ornamental species	Chiba University, Faculty of Floriculture	1999.6.9~2000.6.8	Exploration-Collection- Identification- Evaluation of Germplasm, BG Base, etc	PDF
5.	Kobayashi Nobuo	Evaluation and improvement of potential ornamental species	Tatebayashi city, Azalea Research Station	2000.8.22~2002.8.21 Extension 2002.8.22~2003.2.21	Exploration-Collection- Identification- Evaluation of Germplasm, Registration of new variety, etc	PDF
6.	Arisumi Kenichi	Breeding of new cultivars	JICA Expert of Japanese Society	1999.2.19~2001.2.18	Guide on General Breeding of Ornamental Plant	CETEF/PDF
7.	Miyajima Ikuo	Breeding of new cultivars	Kyushu University, Faculty of Agriculture	2001.5.8~2003.5.7 Extension 2003.5.8~2004.5.7	Guide on General Breeding of Ornamental Plant	PDF
8.	Ikoma Hiroki	Project coordinator	Nothing	2002.8.1~2003.4.30	Assist to CA activity, Accounting Activity, Communication with the Counterpart Institution	PDF
9.	Kamogawa Tomohiro	Breeding of new cultivars	Sakata Seed Co	2003.4.6~2004.5.10	Exploration-Collection- Identification- Evaluation of Germplasm Registration of new variety, etc	PDF

## Annex B-2

## Short Term Experts. 9 Experts

No	Name of experts	Area of specialization	Former Place of Employment	Period of Dispatch	Contents of Technological Transfer	Remarks
1	Mii Masahiro	Breeding for stress resistance; salinity resistance	Universidad de Chiba, Department of Horticulture	2000.3.24~2000.4.9	Guide on method of action for abnormality growth caused by high sodium concentration	PDF
2	Noguchi Akira	Breeding for stress resistance; soil fertilizer	Nihon Daigaku, Department of Biological Resources	2000.11.20~2000.12.3	Guide on fertilizer plan according to result of soil diagnosis	PDF
3	Ueno Keiichiro	Tissue culture/ Technical training of the use of flowcytometer	Biotechnology Experimental Station of Kagoshima Prefecture	2001.2.26~2001.3.18	Method on propagation and conservation with the use of plant physiology characteristic Selection of polyploidy plant with de use of flowcytometer. etc	PDF
4	Hamada Yutaka	Information of flower marketing	Laboratory of Floriculture, Tokyo	2001.11.12~2001.11.25 2002.11.25~2002.12.9	Advice on possibilities of the present breeding material, course of the breeding Offer information of ornamental international marketing	PDF (Two time)
6	Horikoshi Teiichi	Breeding of practical cultivars in ornamental flowers	Tsukui Area Agricultural Extension Service Center, Kanagawa Prefecture	2002.9.22~2002.10.20	Breeding on practical cultivars in ornamental flowers: guide of program and material selection	PDF
7	Ueno Keiichiro	Micro propagation	Biotechnology Experimental Station of Kagoshima Prefecture	2002.10.1~2002.10.29	Plant tissues culture, practical micro propagation (from adventitious bud, adventitious embryo, others), guide of micro propagation of ornamental plants	PDF
8	Shigematsu Koji	Mutation breeding	The Tokyo Metropolitan Industrial Technology Research Institute, Radiation Laboratory	2002.11.25~2002.12.9	Inducement and selection method on mutation in seed propagation plant, method of breeding by mutation in vegetative propagation in ornamental herbaceous plant and tree; guide in the efficient inducement of the mutation and stability, etc; breeding guide of mutation inducement by radiation	PDF
9	Yuasa Mitsuo	Registration of Ornamental Plants	Ministry of Agriculture, Forestry & Fisheries, Seeds & Seedlings Division	2003.2.9~2003.2.22	Guide on registration in Japan and others countries, UPOV	PDF

## Annex B-3

## Record of reception of trainees (PDF)

## Training in Japan: 7 trainees

No.	Name of trainee	Area of cooperation	Trainee period	Contents of training	Principal training place	Remarks, Current occupation
1.	Enrique Ysidro Suarez	Ornamental crop, Breeding and Marketing	9.9.1999~ 28.9.1999	<ul style="list-style-type: none"> <li>• Agricultural Administration</li> <li>• Ornamental Administration</li> <li>• Ornamental Marketing System</li> <li>• Ornamental Farming and Agriculture Cooperative</li> </ul>	Ministry of Agriculture, Forestry & Fisheries, Department of Economy, Department of Horticulture Ministry of Agriculture, Forestry & Fisheries, Area of statistic information Observation of agriculturist, association, etc. Uemichi Institute, etc	Project Manager
2.	Gabriela Rosa Facciuto	Breeding of ornamental plants	21.2.2000~ 28.5.2000	<ul style="list-style-type: none"> <li>• Interspecific hybridization, induction of polyploidy, improvement of special characteristics and evaluation and selection of suitable breeding materials.</li> <li>• Mutation breeding of ornamental crop for radiation breeding</li> <li>• Ornamental farming and Agriculture Cooperative</li> </ul>	Ministry of Agriculture, Forestry & Fisheries, Vegetable-Tea Experimental Station Laboratory of tree planting Ministry of Agriculture, Forestry & Fisheries, Experimental Station of breeding by radiation Uemichi Institute, etc	C/P
3.	Silvina Maria Soto	Evaluation of ornamental plant germplasm	24.7.2000~ 4.11.2000	<ul style="list-style-type: none"> <li>• Technical training of Analysis of floral pigments</li> <li>• Transformation of ornamental plants</li> </ul>	Chiba University, Faculty of Horticulture, Floricultural Laboratory Ministry of Agriculture, Forestry & Fisheries, Vegetable-Tea Experimental Station Kyushu University, Graduate school, Laboratory of Agriculture	C/P
4.	Cesar Manuel Rebella	Administration in floriculture	4.3.2002~ 16.3.2002	<ul style="list-style-type: none"> <li>• Agriculture in Japan · Administration in floriculture</li> <li>• Japanese distribution system in floriculture</li> </ul>	Ministry of Agriculture, Forestry & Fisheries, Department of Economy, Department of Horticulture Ministry of Agriculture, Forestry & Fisheries, Area of statistic information Observation of agriculturist, association, etc.	Director of Natural Resources Institute of INTA PDF
5.	Juan Carlos Hagiwara	Floricultural breeding	31.3.2002~ 6.7.2002	<ul style="list-style-type: none"> <li>• Acquisition of theory and technique in floral breeding</li> <li>• Evaluation method of pollen viability evaluation, observation method of pollen tube elongation</li> <li>• Breeding theory in Cellular Engineering</li> <li>• Observation of breeding by mutation</li> </ul>	Chiba University, Faculty of Horticulture, Laboratory of Cytology Engineering Kyushu University, Graduate school, Laboratory of Agriculture Iwate University, Faculty of Agriculture Ministry of Agriculture, Forestry & Fisheries, Experimental Station of breeding by radiation, etc	C/P

6.	Oscar Alberto Costamagna	Administration in floriculture	2003.3.9~ 2003.3.21	<ul style="list-style-type: none"> <li>• Structure of agricultural experimental station in Japan</li> <li>• Administration in the Japanese floriculture, distribution</li> <li>• Ornamental marketing system in Japan</li> <li>• Summary of ornamental seed production-study in private enterprises</li> <li>• Observation of ornamental product shipment -market</li> </ul>	<p>Tsukuba Central of Institute of Agricultural Technology, Institute of Floriculture  Department of food, International Area, Technological Cooperation, MAFF  Seed Experimental Station of Takii  Vegetable-Tea-Floricultural Institute  Distribution Center of flower of Gifu, Association-Breeder</p>	Director of INTA PDF
7.	Diego Alejandro Mata	Floricultural culture	2003.7.3~ 2003.8.16	<ul style="list-style-type: none"> <li>• Floral culture in general</li> <li>• Culture of subtropical plant</li> <li>• Propagation technique (cutting, graft, etc)</li> <li>• Cut flower culture (lisanthus, crysanthemum)</li> </ul>	<p>Miyazaki University, Faculty of Agriculture, Plant Production Course  Agronomy Center of Miyazaki Prefecture  Market of subtropical crop  Observation of Sakata Seed Co, Miyoshi Co, Ota Market, etc  Agronomy Center of Kyushu, Division of Vegetable-Flower</p>	C/P



Annex B-4

(1) List of provided equipment from Japan side and its conditions of use  
Denomination: Peso Argentino

A = Frequency B = Once to three times for a week C = Each occasion

No.	Date Received	Name of Equipment	Description	Quat	Cost in Peso	Area of Usage	Location	Used	Care	In case of no used, the reason and since when
A-1	1999/9	Vehicle	TOYOTA HILUX CD SR5	1	24,132.00	Research of Plants	IRB	A	A	
A-2	1999/9	Vehicle	ISUZU TROOPER LS TDI 3.1	1	27,500.00	Research of Plants IRB	IRB	A	A	
A-3	1999/9	Data base for plants research	BG-Base Version 5.0	1	13,630.00	Collection of plants	CETEFFFH	A	A	
A-4	1999/11	Personnel computer (Note Book)	Compaq Presario 1275	1	1,555.00	All areas	CETEFFFH	A	A	
A-5	1999/11	Personnel computer (Desk top)	Hewlett Packard Vectra 8169	2	5,371.00	All areas	CETEFFFH	A	A	
A-6	1999/11	Plotter	Hewlett Packard Vectra 750C	1	5,476.00	Collection of plants All areas	IRB	A	A	
A-7	1999/11	Copier	Konica 2223	2	14,000.00	All areas	CETEFFFH	A	A	
A-8	1999/11	Substantial Microscope	Olympus SZX9	2	11,495.00	Breeding of plants	CETEFFFH	A	A	
A-9	1999/11	Fluorescence Microscope	Olympus BX50	1	20,845.00	Breeding of plants	CETEFFFH	A	A	
A-10	2000/3	Electric balance	Ohaus EO-2140	2	5,380.00	Breeding of plants	CETEFFFH	A	A	
A-11	2000/3	Locker for medicine	SBS BT-21	4	4,800.00	Breeding of plants	CETEFFFH	A	A	
A-12	2000/3	Temperature Recorder	Escort	1	685.00	Breeding of plants	CETEFFFH	A	A	
A-13	2000/3	Vaporizer	Motan Fontan Turbostar-E	1	7,150.00	Breeding of plants	CETEFFFH	A	A	
A-14	2000/3	Pure water processor	Barnstead	1	3,209.41	Breeding of plants	CETEFFFH	B	A	
A-15	2000/3	Automatic dryer	Cienceware H42056-1003	2	1,739.245	Breeding of plants	CETEFFFH	A	A	
A-16	2000/3	Shaker	Begger Bill Thermo	1	2,568.51	Breeding of plants	CETEFFFH	A	A	
A-17	2000/3	DNA Master	Genesis 5	1	7,911.87	Breeding of plants	CETEFFFH	A	A	
A-18	2000/3	PCR	Mastercycler Plus	1	4,130.00	Breeding of plants	CETEFFFH	A	A	
A-19	2000/3	Autoclave	Sanyo MLS-3020	1	3,500.00	Breeding of plants	IRB	A	A	
A-20	2000/3	Thermo-higrostat	SBS BT-21	1	2,539.00	Breeding of plants	CETEFFFH	A	A	
A-21	2000/3	Liquefied controller	Sanyo MDF-U581	5	3,539.25	Breeding of plants	CETEFFFH	A	A	
A-22	2000/3	Portable Radio	Kenwood TK-272	4	1,360.00	Research of plants	CETEFFFH	A	A	
A-23	2000/3	GPS	Garmin 12 XL	2	1,274.00	Research of plants	CETEFFFH	A	A	Robbed 14/11/01

A-24	2000/3	Portable Refrigerator	Colman 40 L	2	600.00	Research of plants	CETEFFHO	A	A	Robbed 14/11/01
A-25	2000/3	Freezer	Sanyo MTR-85H	1	8,200.00	Breeding of plants	CETEFFHO	A	A	
A-26	2000/3	Harvester	Empe Disenos	2	2,420.00	Conservation of plants	IRB(1), CETEF(1)	A	A	
A-27	2000/3	Clean bench	Cashiba 209 D	2	13,124.00	Breeding of plants	CETEFFHO	A	A	
A-28	2000/3	Ion Water Purifier	Jencons 4000X4	1	2,734.00	Breeding of plants	CETEFFHO	A	A	
A-29	2000/3	Color meter	Minolta CR-321	1	7,876.00	Breeding of plants	CETEFFHO	A	A	
A-30	2000/3	Locker Chair Desk	Agular	4	3,728.00	All areas	CETEFFHO	A	A	
A-31	2003/3	Centrifuge	Hettich 35 R	1	6,244.00	Breeding of plants	LAB	A	A	
A-32	2000/3	Handstand Microscope	CETI Verrus	1	5,130.00	Breeding of plants	LAB	A	A	
A-33	2000/3	Drying machine for herbarium	Sanyo Mov-212S	1	2,220.00	Breeding of Plants	CETEFFHO	A	A	
A-34	2000/3	Refrigerator	Philco 340 L	2	1,335.90	Breeding of plants	IRB(1), CETEF(1)	A	A	
A-35	2000/3	Single-lens Reflex Camera	Canon EOS 500 N	1	533.06	Research of plants		A	A	Robbed 14/11/01
A-36	2000/3	Binocular	Pentax 7X35PCFIII	2	462.80	Research of plants		A	A	
A-37	2001/2	Floctometer	Partec PA-1	1	33,000.00	Breeding of plants	CETEFFHO	A	A	
A-38	2001/3	Conservation System for seeds	Hispano Argentino	1	34,862.00	Conservation of plants	IRB	A	A	
A-39	2001/3	Generator for conservation System	Onan 65 DGDA	1	23,356.00	Conservation of plants	IRB	A	A	
A-40	2001/3	Stylobate for conservation system	Trabajo en General	1	2,300.00	Conservation of plants	IRB	A	A	
A-41	2001/3	Raks for conservation System	Carriel	4	2,759.51	Conservation of plants	IRB	A	A	
A-42	2001/3	Shelf with illumination system	Serafimi hsnos	1	7,495.00	Breeding of plants	CETEFFHO	A	A	
A-43	2001/3	Personnel computer (Desktop)	Hewlett Packard Vectra 8169	3	6,156.00	All areas	CETEFFHO	A	A	
A-44	2001/4	Tube washer	Labconco Cod. 15-352	1	8,050.00	Breeding of plants	CETEFFHO	A	A	
A-45	2001/4	Registrar for Conservation system	Honeywell Exel 50	1	4,961.00	Conservation of plants	IRB	A	A	
A-46	2001/4	Micro pipette	Eppendorf 4980	1	821.00	Breeding of plants	CETEFFHO	A	A	
A-47	2001/4	Accessories for Centrifuge	Hermle	1	2,240.00	Breeding of plants	CETEFFHO	A	A	
A-48	2001/6	Irradiator for microscope	Plymplus FL-1000	2	1,764.00	Breeding of plants	CETEFFHO	A	A	
A-49	2001/7	Freezer	Angelatoni Kryolab 500	1	2,480.45	Breeding of plants	CETEFFHO	A	A	
A-50	2001/7	HPLC	Knauer	1	19,317.66	Breeding of plants	CETEFFHO	A	A	
A-51	2001/7	Growth chamber	Fitotron SGC970	1	26,000.00	Breeding of plants	CETEFFHO	A	A	

A-52	2001/9	Fotoperiod Control Equipment	Ciberagro	1	9,315.20	Breeding of plants	CETEFFFH	A	A
A-53	2001/9	Accessories for DNA meter	Spectronic	1	5,840.00	Breeding of plants	CETEFFFH	A	A
A-54	2001/9	Therm block	Fisher Isotemp	1	1,266.12	Breeding of plants	CETEFFFH	A	A
A-55	2001/9	Accessories for TLC	Wheaton Cod. 216860	1	910.00	Breeding of plants	CETEFFFH	A	A
A-56	2001/4	Clean bench	Labconco 36204-24	1	7,100.00	Breeding of plants	CETEFFFH	A	A
A-57	2001/4	Vacuum Pump	Dosivac DV-95	1	968.00	Breeding of plants	CETEFFFH	A	A
A-58	2001/4	Ventilator for Conservation System	Zingueria maipu	1	895.40	Conservation of plants	IRB	A	A
A-59	2001/4	Conservation vessel for soluble nitrogen	MVE, LA B5	1	1,150.00	Conservation of plants	CETEFFFH	B	A
A-60	2001/4	Polyvinil	Tres Pinos	1	2,600.00	Breeding of plant	CETEFFFH	A	A
A-61	2001/4	Rotor for cnetrifuge	Rotor IEC 224	1	5,110.00	Breeding of plants	CETEFFFH	A	A
A-62	2001/4	Thermocycler	MJ Research PTC-1196	1	4,895.00	Breeding of plant	CETEFFFH	A	A
A-63	2001/4	Moisture Eliminator for Conservation System	MuntersHC-300EA		7,234.00	Conservation of plants	IRB	A	A
A-64	2001/4	Bench for green house	Cucarella	1	3,250.00	Breeding of plants	IRB	A	A
A-65	2001/4	Power supply	Thermo EC600-90	1	2,340.00	Breeding of plants	IRB	A	A
A-66	2001/4	Recorder of temperature and moisture	HMI41	1	1,560.00	Breeding of plants	IRB	A	A
A-67	2001/4	Distiller equipment	Sanyo cyclon	1	3,190.00	Breeding of plants	CETEFFFH	A	A
A-68	2001/5	Lyofilizer	Labconco Free Zone 6	1	10,224.84	Breeding of plants	CETEFFFH	A	A
A-69	2001/7	Growth chamber	Fitotron SGC-970	2	52,000.00	Breeding of plants	CETEFFFH	A	A
A-70	2001/9	Softrener equipment	GATA 5100	2	4,350.00	Breeding of plants	IRB	A	A
A-71	2001/9	Fluorescent luminous meter	DyNA Quant 200	1	3,855.00	Breeding of plants	CETEFFFH	A	A
A-72	2001/9	Cradle Micro centrifuge	Hettich Micro 22	2	4,512.66	Breeding of plants	CETEFFFH	A	A
A-73	2002/3	Outdoor middle shadow	Irie Hnos	1	3,948.00	Breeding of plants	CETEFFFH	A	A
A-74	2002/3	Digital image set for microscope	Olympus C-3000	1	2,990.00	Breeding of plants	CETEFFFH	A	A
A-75	2002/4	Reactive for HPLC	Supelco, others	1	2,380.00	Breeding of plants	CETEFFFH	A	A
A-76	2002/4	Reactives for general use	Sigma-Aldrich, others	1	2,690.00	Breeding of plants	CETEFFFH	A	A
A-77	2002/4	Laboratory instrument	Schott, others	1	2,000.00	Breeding of plants	CETEFFFH	A	A
A-78	2002/4	Glass plate (spectrofotometer)	Shimadzu T18-H10	1	1,650.00	Breeding of plants	CETEFFFH	A	A
A-79	2002/4	Vertical refrigerator	Gafalee Visee 420	1	1,264.00	Breeding of plants	CETEFFFH	A	A
A-80	2002/4	Electronic balance	A&D HR60	1	5,125.00	Breeding of plants	CETEFFFH	A	A

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A-81	2002/4	WEB server for network (information of genetic resources)	Windows P/AMD K7	1	12,010.95	Breeding of plants	CETEFFFH	A	A
A-82	2002/4	Temperature-Humidity record apparatus	Escort Normas ISO	2	1,902.40	Breeding of plants	CETEFFFH	A	A
A-83	2002/5	Heater bench for green house	Orbis	1	20,124.85	Breeding of plants	CETEFFFH	A	A
A-84	2002/5	Humidity conservator for climate controlled room	Ciber Model:2000/S	1	2,152.50	Breeding of plants	CETEFFFH	A	A
A-85	2002/5	Irrigation system for climate controlled room	Rain bird	1	1,800.00	Breeding of plants	CETEFFFH	A	A
A-86	2002/5	Nursery system for green house	Ciber 2000 Model:2000		3,177.50	Breeding of plants	CETEFFFH	A	A
A-87	2002/5	Computer	Microsoft Windows	1	2,738.80	All areas	CETEFFFH	A	A
A-88	2002/5	Laser color printer	Hewlett Packard 1200	1	1,020.90	All areas	CETEFFFH	A	A
A-89	2002/5	Aquaflex for growth chamber	Elga Purelab S7	1	31,176.40	Breeding of plants	CETEFFFH	A	A
A-90	2002/6	Pump for biofilter	Labconco 77394-01	1	7,656.75	Breeding of plants	CETEFFFH	A	A
A-91	2002/6	Altimeter	Forestry Suppliers Package	1	4,155.35	Breeding of plants	CETEFFFH	A	A
A-92	2002/6	Mobile cage	Cucarella	1	12,300.00	Breeding of plants	CETEFFFH	A	A
A-93	2002/6	Automatic pipette	Eppendorf Easypet	1	977.85	Breeding of plants	CETEFFFH	B	A
A-94	2002/6	Glass pipette	Eppendorf Research	1	2,970.45	Breeding of plants	CETEFFFH	B	A
A-95	2002/6	Software for record temperature/humidity soil	Sentec Enbiro Scan 4.1	1	7,923.25	Breeding of plants	CETEFFFH	A	A
A-96	2002/6	Penetrometer	Eijkelkamp 06-02	1	3,700.25	Breeding of plants	CETEFFFH	B	A
A-97	2002/6	Freezer	Sanyo MDF-U332	1	4,846.20	Breeding of plants	CETEFFFH	A	A
A-98	2002/6	Stereoscopic microscope	Olympus SZX-ZB9	1	20,797.25	Breeding of plants	CETEFFFH	A	A
A-99	2002/6	Automatic autoclave	Wolf AES-75	1	12,505.00	Breeding of plants	CETEFFFH	A	A
A-100	2002/6	Filter for microscope	Olympus U-MWU2	1	2,429.25	Breeding of plants	CETEFFFH	A	A
A-101	2003/7	Personnel computer	Compaq E EVO-N 1020v	1	5,516.00	All areas	IRB	A	A
A-102	2003/6	Micro pipette	Jencons, Sealpette 480-080, 480-082, 480-002	3	1,412.70	Breeding of plants	IRB	B	A
A-103	2003/6	Multimedia Projector	Sanyo Model No. PLC-XU20E serial No. GIX06452	1	8,644.50	All areas	IRB	B	A
A-104	2003/7	Printer	HP Laser Jet 1200 series	1	900.00	All areas	IRB	A	A
A-105	2003/8	Digitalization of image System	Digi Doc-it Imaging system UVP	1	11,953.98	Breeding of plants	CETEFFFH	B	A
A-106	2003/8	Cuba para electroforesis	Amersham	1	7,439.16	Breeding of plants	IRB	B	A
A-107	2003/9	Computadora	Pc pentium III, Printer, Scanner	2	3,500.00	All areas	IRB	A	A

A-108	2003/10	Herbarios	140cmx210 cm, 2 puertas chapa			2.642,98	Conservation of plants	CETEFFHO	A	A	
A-109	2003/11	Soft colorimetro	Konica Minolta	1		3.698,52	Breeding of plants	CETEFFHO	B	A	
A-110	2003/11	Micropipette	Jencons Sealpette: Series: EP67975; EO57441; EP67982	3		1.412,70	Breeding of plants	CETEFFHO	A	A	
A-111	2003/11	Pipette	Capp Aero Single Pipette: KF7767; KF7768; IF5435	3		1.412,70	Breeding of plants	CETEFFHO	B	A	
A-112	2003/11	Personnel computer	Notebook Compaq EVO NX9010 DG236A	1		5.516,00	All areas	CETEFFHO	A	A	
A-113	2003/11	Fuente de poder	Polycience Mod. 300	1		3.474,20	Breeding of plants	IRB	B	A	
A-114	2003/11	Agitador monotherm	Variomag	1		1.450,40	Breeding of plants	IRB	A	A	
A-115	2003/11	Digital handycam	Sony	1		8.999,00	Resources search	CETEFFHO	C	A	
A-116	2003/11	Colector de datos	Juniper Systems, Inc Allegro CE Package	1		8.139,60	Breeding of plants	CETEFFHO	A	A	
A-117	2003/11	Criostato	Julabo EC Basis	1		11.000,00	Breeding of plants		B	A	
A-118	2003/10	Cámara fotográfica	Nikon F-65 AF 28-105	1		1.395,00	Search on resources and breeding of plants	CETEFFHO	B	A	
A-119	2003/11	Cámara digital	Sony Mavica FD-92 Cod. 22380 Zoom, Macro	1		4.588,00	Search on resources and breeding of plants	CETEFFHO	A	A	
A-120	2003/11	Evaporadores	LU-VE Contardo B2HC 92-80			12.000,00	Conservation of germplasm	IRB	A	A	
A-121	2003/11	Cuba para electroforesis	Owl, modelo B2	1		1.100,58	Breeding of plants	CETEFFHO	A	A	
A-122	2003/11	Rotor para centrifuga	Rotor p/placas de 96 wells, de centrifuga IEC Centra MP4R	1		4.272,00	Breeding of plants	IRB	B	A	
Total of provided equipment						710.761,04					

(2) Portable machinery and equipment

No.	Date Received	Name of Equipment	Description	Quat	Cost in Peso	Area of Usage	Lacation	Used	Care	In case of no used, the reason and since when
B-1	1999/5	Personnel Computer	Power Book G3	4	18.474,00	All areas	CETEFFHO	A	A	
B-2	1999/5	pHmeter	MP230 SET A	1	1.480,00	Breeding of Plants	CETEFFHO	A	A	
B-3	1999/5	Coolstener	CPS-30	1	1.830,00	Breeding of Plants	CETEFFHO	A	A	
B-4	1999/5	Transformer	CD 220-06	4	485,00	All areas	CETEFFHO	A	A	
B-5	1999/5	Tube mixer	HM-10H	1	548,00	Breedings of Plants	CETEFFHO	A	A	
B-6	1999/5	Digital illuminometer	LX-1334	1	379,00	Breeding of Plants	CETEFFHO	B	A	

B-7	1999/5	Punch	900 30-187	1	48.00	All areas	CETEFFHO	A	A
B-8	1999/5	Hotchikisu	HD-3D	1	32.00	All areas	CETEFFHO	A	A
B-9	1999/5	Nombering	BB 30-570	1	48.00	All areas	CETEFFHO	A	A
B-10	1999/5	Water Analysis Meter	PM-600	1	968.00	Breeding of Plants	CETEFFHO	B	A
B-11	1999/5	Electric balance	BW420 H	1	1,340.00	Breeding of Plants	CETEFFHO	A	A
B-12	1999/5	Calculator	Casio D-220	1	73.00	All areas	CETEFFHO	A	A
B-13	2000/9	Sieve	Standard Sieve	10	473.00	Breeding of Plants	CETEFFHO	B	A
B-14	2000/11	Soil Tester	Dr. Soil	1	487.00	Breeding of Plants	CETEFFHO	A	A
Total of portable Machinery and Equipment						26,665.00			

(3) Machinery and equipment of locale purchase

No.	Date Received	Name of Equipment	Description	Quant	Cost in Peso	Area of Usage	Location	Used	Care	In case of no used, the reason and since when
C-1	1999/5	Safe box	Stainless steel	1	47.00	All areas	CETEFFHO	A	A	
C-2	1999/8	Bicycle	Ingrasa R-26	2	331.00	All areas	CETEFFHO	A	A	
C-3	1999/8	Desk for meeting	Collapsible	1	90.00	All areas	CETEFFHO	A	B	
C-4	1999/9	Sieve	Lobov	2	10.25	Breeding of plants	CETEFFHO	B	A	
C-5	1999/9	Bench for green house	Cucarella	8	1,760.00	Breeding of plants	CETEFFHO	A	A	
C-6	1999/12	Bed for vehicle	FEDERICO S.A.	1	2,768.11	Research of plants	IRB	A	A	
C-7	2000/1	Digital camera	Epson Photo PC 750Z	1	1,356.00	Research of plants	CETEFFHO	B	A	
C-8	2000/3	Bench of green house	Cucarella	20	4,400.00	Breeding of plants	CETEFFHO	A	A	
C-9	2000/4	Simple camera	Olympus AF-35	1	257.90	Research of plants	CETEFFHO	B	A	
C-10	2000/4	Carry bag for camera	Canon 10	1	63.00	Research of plants	CETEFFHO	A	A	
C-11	2000/5	Zip driver	Windows	1	264.99	All areas	CETEFFHO	A	A	
C-12	2000/5	Antenna of vehicle for GPS	Febicom	a	338.80	Research of plants	CETEFFHO	C	A	
C-13	2000/5	Zip disc	Windows	1	172.80	All areas	CETEFFHO	B	A	
C-14	2000/9	Polyethylene tnak for pure	Las casa de envases	1	54.00	Breeding of plants	CETEFFHO	A	A	

C-15	2000/9	water (30 lt)																	
		Printer	Epson 7401	1	299.99	All areas	CETEFFHO	A	A										
C-16	2000/9	Tweezer	Sharp-pointed	5	175.00	Breeding of plants	CETEFFHO	A	A										
C-17	2000/9	Mouse	Mouse ADB	1	72.60	All areas	CETEFFHO	A	A										
C-18	2000/9	Cable for printer	Minidin 8	1	13.31	All areas		A	A										
C-19	2000/11	Buble connector	Toro Greenkeeper 8	1	580.80	Breeding of plants	CETEFFHO	A	A										
C-20	2000/11	Shield for pannels	Hector Miyashiro	4	780.00	All areas	CETEFFHO	A	A										
C-21	2000/12	Ventilator	Carlos Cucarella	6	3,790.00	Breeding of plants	CETEFFHO	A	A										
C-22	2001/74	Printer and cable	Epson 777, PCMCIA USB	1	433.18	All areas	CETEFFHO	A	A										
				Total of Machinery and Equipment of Locale Purchas															
					18,058.73		CETEFFHO	A	A										

Annex B-5

Budget of local cost by the Japanese side

Horticulture Development Project in Argentine Republic  
December 29, 2003

Denomination: Peso Argentino									
Items	Fiscal year	1999 (Month 5~3)	2000 (Month 4~3)	2001 (Month 4~3)	2002 (Month 4~3)	2003(Plan) (Month 4~3)	2004(Plan) (Month 4)	Total	
Local general operation cost		59,800	58,650	50,000	144,800	108,500	65,300	487,050	
Extension activity		30,000	35,000	23,000	72,000			160,000	*1
Extension activity (Study of floricultural farmer conditions)				38,500				38,500	*1
Physical Infrastructure			180,700					180,700	
Furnishing Machinery and Equipment		133,870	118,406	303,020	172,085	110,470		837,851	*2
Portable machinery and Equipment		30,700	14,010					44,710	
Total		254,370	406,766	414,520	388,885	218,970	65,300	1,748,811	

Note: After 2002Peso and Dollar are variable

\*1 日-カボコスト  
\*2 機械



## Annex C-1

## (1) Allocation of counterpart personnel

Horticulture Development Project in Argentine Republic (PDF)							
Name	Post	Area of specialization	Trainee period in Japan	Name of expert which conducted the technological transfer	Work Period in the executive place	Current occupation	Remarks
1 Gabriela Rosa Facciuto	Assistant staff of INTA	Breeding of ornamental plants	21.2.2000~ 28.5.2000	Kokubun Hisashi Kobayashi Nobuo Arisumi Kenichi Miyajima Ikuo	1.7.1998~present	Assistant staff of INTA	PDF
2 Juan Cruz Serpa	Research study staff of INTA	Breeding of ornamental plants	—	Kokubun Hisashi Kobayashi Nobuo Arisumi Kenichi Miyajima Ikuo	1.5.1999 ~28.2.2002	Retired in 2. 2002 Private enterprise	PDF
3 Silvina Maria Soto	Research study staff of INTA	Evaluation of ornamental plant material	24.7.2000~ 4.11.2000	Kokubun hisashi Kobayashi Nobuo Arisumi Kenichi Miyajima Ikuo	1.5.1999~present	Research study staff of INTA	PDF
4 Juan Carlos Hagiwara	Research study staff of INTA	Breeding of ornamental plants	31.3.2002~ 6.7.2002	Kobayashi Nobuo Arisumi Kenichi Miyajima Ikuo	3.4.2000~present	Research study staff of INTA	PDF
5 Alejandro Escandon	Formal staff of INTA	Breeding of ornamental plants	—	Kobayashi Nobuo Arisumi Kenichi Miyajima Ikuo	11.10.1989.10.11~ present	Formal staff of INTA	PDF 19.8.2003 INTA professional trainee
6 Diego Mata	Research study staff of INTA	Ornamental breeding	3.7.2003~ 16.8.2003	Kobayashi Nobuo Miyajima Ikuo	1.5.2002~present	Research study staff of INTA	PDF

## Annex C-2

## Running expenses

## (2) Budget of local cost by the Argentine side

## a. Budget of Argentine side

Denomination: Peso Argentino Horticulture Development Project in Argentine Republic

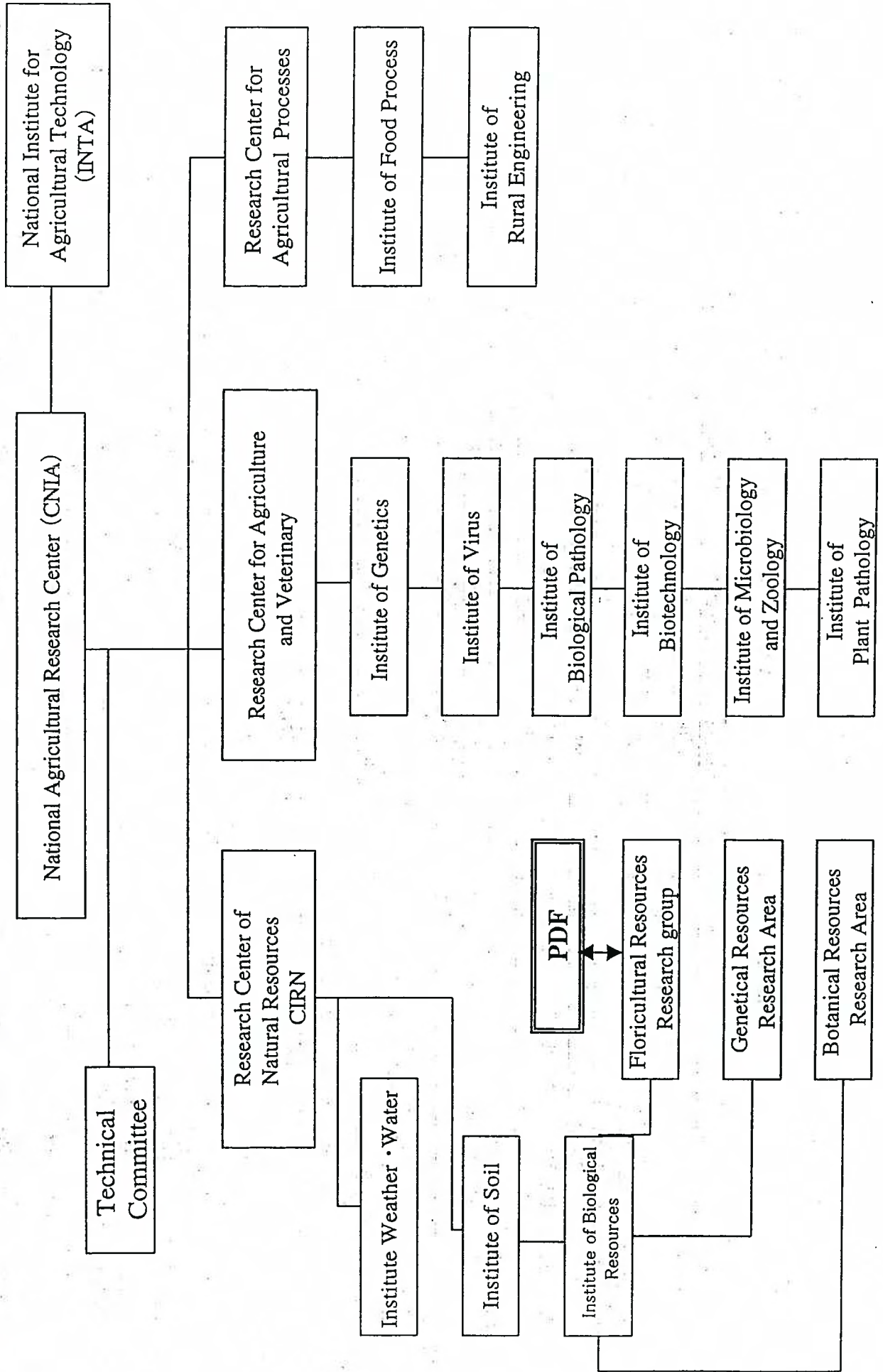
Items	Year	1999(5~12)	2000(1~12)	2001(1~12)	2002(Plan) (1~12)	2003(1~12)	2004(1~4)	Total
Personnel		83,750	109,266	109,266	114,066	116,466		532,814
Insurance of vehicle		3,150	2,750	2,500	4,600	5,200		18,200
Fuels of vehicle		1,300	1,500	2,000	4,500	2,700		12,000
Traveling allowance of C/P		9,349	12,557	10,000	800	10,650		43,356
Employment expenses of drivers		255	255	300	300	300		1,410
Commission of the costum		3,000	5,075	2,000	10,300	2,500		22,875
Maintenance expenses of the equipment		1,500	2,300	3,000	3,000	16,900		26,700
Communication cost (Tel/Fax)		1,500	2,200	2,500	750	2,300		9,250
Expenses for light and fuel		1,800	1,900	2,000	1,200	2,150		9,050
Expenses for meetings		400	600	800	250	320		2,370
Others		2,500	2,500	2,500	2,500	7,667		17,667
Expenses for participation in congress		0	0	0	0	4,200		4,200
Provision of land, building, and facilities		0	0	0	0	0		
Total		108,504	140,903	136,866	142,266	171,353		699,892

## b. Others (for example allocation of personnel)

Name	Occupation	Trainee period in Japan	Name of expert	Work period in the Project	Current occupation	Remarks
1 Ingrid Villanova	Researcher study staff of IRB	.	..	2002.7.1~ 2002.12.28	Researcher study staff of INTA	Input in BG base
2 Julio Tilleria	Technician of Botanic Resources of IRB	.	..	2003.6.15~present	Staff of INTA (Net work area)	Preparation of WEB page
3 Juan Pablo Rossi	Researcher study staff of IRB	.	..	2003.6.15~present	Researcher study staff of INTA	Preparation of WEB page
4 Ariel Barrozo	Researcher study staff of IRB	.	..	2003.6.15~present	Researcher study staff of INTA	Preparation of WEB page
5 Julian Greppi	Researcher study staff of IRB	.	..	2003.7.1~present	Researcher study staff of INTA	Botanical classification INTA/PDF

Annex D-1  
 Relation Chart and Organization Chart  
 of INTA Castelar

Organization Chart of INTA Castelar



Annex D-2  
 Relation Chart between Organisms

