

## SECTION D

### Monitoring plan as required in Annex VII of Directive 2001/18/EC

#### Type of monitoring plan

The proposed monitoring plan is based on general surveillance. As no potentially adverse effects have been identified for the GM product we believe case-specific monitoring is not appropriate for FLO-4Ø689-6 as the guideline parameters that are recommended for case specific monitoring do not apply. For example;

- Because there is no avenue for gene dispersal it is not possible to document the spread, persistence and accumulation of transgenes and recombinant proteins.
- There are no apparent organisms, food chains or habitats that are affected by conventional carnation flower imports, which could therefore be the subject of specific attention for transgenic carnation.
- It is not possible to quantify a baseline environment in the absence of the imported carnation flowers in the floral trade distribution environment and household environment.

As the flowers will not be grown in the EU, there is no requirement for monitoring of production locations within the EU.

Once purchased by an end consumer, perhaps in the form of a bouquet, the imported flowers could be used anywhere in the EU, and it is not possible to track the final distribution of all flowers.

#### Components of the monitoring plan

The components of the monitoring plan are;

**Importer questionnaire.** On a bi-annual basis the importers will be asked to complete a questionnaire, an example of which is shown at Figure 1.

**Consumer feedback.** The Florigene website has a regulatory link (<http://www.florigene.com/product/regulatory.html>) in German, French and English. Consumers are provided contact details through which comments may be made on the transgenic carnation products.

**Survey reports.** Each year Suntory engages the services of botanists with interests in *Dianthus* biology. The current list of experts are located at;

Institute of Biology	Department of Population Biology, Portfløj 1.16 Øster Farimagsgade 2D, DK-1353 Copenhagen K, Denmark
Ss. Cyril and Methodius University in Skopje	Department of Botany and Dendrology Faculty of Forestry in Skopje MK-1000 Skopje Republic of Macedonia
Slovak University of Agriculture in Nitra	Department of Botany Tr. A. Hlinku 2, 949 76 Nitra, Slovakia

The experts are asked to alert Suntory to any wild populations or unusual *Dianthus* hybrids they find during their routine survey work. If a likely hybrid is found, molecular analysis will be carried out to eliminate the possibility of hybridization with transgenic carnation. A PCR based detection method has been developed and validated by the JRC (JRC, 2008). This will allow the specific identification of the line that is described in this proposal to support detailed investigation if necessary. Participation by each expert is supported by an annual honorarium of less than 1000

EURO, for which Suntory receive a written annual report of activity. The reports cover the locations surveyed, area surveyed and species identified. Our expectation is that at least one of the primary designated experts would participate in such a survey each year. If not, Florigene will provide support to carry out a survey during one of the summer months in the carnation growing region of southern Spain, in the vicinity of Chipiona, Andalusia. This region has been chosen because of the high density of carnation plants, grown in relatively open conditions, in a region of Europe where several *Dianthus* species do occur. We will undertake to carry out molecular analysis and test for resistance to herbicides to eliminate the possibility of transgenic hybrid discovery, if these experts request it.

**Institutional mail out.** Suntory has a mailing list of herbaria, national botanical survey networks, plant protection services and botanical gardens in Europe. These are contacted each year to seek information on any *Dianthus* collections or samples which come into their institutions.

Communication will be in one of four languages (English, French, Italian, Spanish), depending on the institution. The most recent mailing list is provided in table 1.

**Literature review.** Each year, the scientific literature is reviewed for new reports on *Dianthus* taxonomy, botany and vegetation.

**Web site, database and personal communication review.** Each year, web sites and data bases are reviewed for new reports on *Dianthus* taxonomy, botany and vegetation. These are complemented with any personal communications on the same subjects that are generated from the mail out.

#### Monitoring at production sites

Though Suntory are not required to undertake specific monitoring activity as a condition of approvals to grow and sell FLO-40689-6 in South America, we will continue to monitor the production site areas in Colombia and Ecuador for the presence of escapes of carnation from cultivation, particularly in the area where the waste from the carnation production is recycled. Growers are expected to provide feedback on;

- Any increase in disease susceptibility
- Any unusual increases in the incidence or type of pests
- Report any adverse reactions to handling the flowers
- Any incidence of genetic off types

#### Traceability

Information collected will be from general surveillance, but the nature of the floricultural business is such that there will be a reasonably accurate record of the flow of flowers to wholesale outlets. This information will be accessible to Florigene, and a database is maintained at Florigene of all individual exports to the EU.

- Florigene will maintain exact records of all exports to Europe – exact number of flowers, customer details, date and arrival airport will be recorded, which can be tallied to independent records of the freight forwarders, importers and airlines.
- Importers will record sales to wholesalers and supermarkets on a variety basis. This is done for them to evaluate the relative commercial success of specific products. The information could be used to identify date and customer name.
- Some wholesalers are very sophisticated and keep bar code systems that will allow the sale of the transgenic carnation to be traced by date, customer and volume. Not all wholesalers have such business systems.

A PCR based test has been developed that will allow the specific identification of the line that is described in this proposal, to support detailed investigation if necessary.

#### Annual reporting

It is planned that line FLO-40689-6 will be reported separately but that the monitoring work will be directed to all transgenic carnation varieties marketed in the EU i.e. monitoring activity will be for

transgenic carnation *per.se.*

The annual report will be lodged in July each year and include;

- Number of flowers imported into Europe in each week of the year, by variety, importer and importer location
- List of surveys carried out by Florigene expert groups with date, location and area surveyed
- All reports of putative *Dianthus* hybrids identified
- All reports of any wild carnation populations
- Response to mail out to herbaria, national botanic survey networks and plant protection services and botanical gardens
- Results of monitoring at production sites in South America

#### References

JRC, 2008. [http://gmo-crl.jrc.ec.europa.eu/docs-valid-2001-18/CRL\\_Report\\_Flor\\_Moonaqu.pdf](http://gmo-crl.jrc.ec.europa.eu/docs-valid-2001-18/CRL_Report_Flor_Moonaqu.pdf)

Figure 1. Example copy of questionnaire to be issued to importers. The example shown is the most recent questionnaire to have been issued, for other transgenic carnation varieties. The format will be modified to include FLO-40689-6. The questionnaire is in two parts.

**Questionnaire**

<b>Questionnaire</b>	<b>Number FLORIGENE TO COMPLETE</b>
<p>As part of the conditions for marketing approval of Florigene varieties in the EU. Florigene are required to monitor for any unexpected effects that may be associated with the import and consumption of our flowers. Your help in completing this questionnaire is very much appreciated. If you tick YES to any question a representative of Florigene will contact you as soon as possible for more details, including variety and circumstances.                  Your feedback can be returned to us electronically to <a href="mailto:schandler@florigene.com.au">schandler@florigene.com.au</a></p>	
<b>Your name</b>	<b>WILL BE COMPLETED BY FLORIGENE</b>
<b>Your company</b>	<b>WILL BE COMPLETED BY FLORIGENE</b>

**PART ONE**

*(Please tick appropriate box)*

<b>Are you aware of any reports of illegal growing of Florigene varieties?</b>		<b>Yes</b>	<b>No</b>
	<b>Florigene®Moonqua™</b>		
	<b>Florigene®Moonlite™</b>		
	<b>Florigene®Moonberry™</b>		
	<b>Florigene®Moonvelvet™</b>		
	<b>Florigene®Moontea™</b>		

<b>Has any of your staff or re-packers reported any adverse or unexpected response to handling Florigene flowers?</b>		<b>Yes</b>	<b>No</b>
	<b>Florigene®Moonqua™</b>		
	<b>Florigene®Moonlite™</b>		
	<b>Florigene®Moonberry™</b>		
	<b>Florigene®Moonvelvet™</b>		
	<b>Florigene®Moontea™</b>		

<b>Have any of your customers reported to you any adverse or unexpected effects of handling Florigene flowers?</b>		<b>Yes</b>	<b>No</b>
	<b>Florigene®Moonqua™</b>		
	<b>Florigene®Moonlite™</b>		
	<b>Florigene®Moonberry™</b>		
	<b>Florigene®Moonvelvet™</b>		
	<b>Florigene®Moontea™</b>		

**If there any comments you wish to make on PART 1, please make them here;**

**PART TWO**

<b>Please provide an estimation of the number of staff who have handled the flowers during import or re-packing in the last 6 months</b>	
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<b>Please provide an estimation of the number of customers you have supplied the flowers to in the last 6 months</b>	
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**If there any other comments you wish to make, please make them here;**

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**Signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Table 1. Example copy of questionnaire to be issued to importers. The example shown is the most recent questionnaire to have been issued, for other transgenic carnation varieties. The format will be modified to include FLO-40689-6. The questionnaire is in two parts.**

<b>ORGANISATION</b>	<b>CITY</b>	<b>COUNTRY</b>
Botanical Garden Universiteti I Tiranes	Tirana	ALBANIA
Alpengarten Villacher Alpe	Villach	AUSTRIA
Austrian Vegetation Database (V.I.N.C.A.) at Institut für Naturschutzforschung und Ökologie GmbH	Vienna	AUSTRIA
Botanischer Garten und Alpengarten, Patscherkofel der Universität Innsbruck	Innsbruck	AUSTRIA
Federal Ministry of Agriculture, Forestry, Environment and Water Management, Plant protection	Vienna	AUSTRIA
Arboretum Kalmthout	Kalmthout	BELGIUM
European weed research society	National Rep.	BELGIUM
Federal Public Service of Public Health, Food Chain Security and Environment, Division Plant Protection	Bruxelles	BELGIUM
Alpinetum Treberic	Sarajevo	BOSNIA AND HERZEGOVINA
Sarajevo Botanical Garden	Sarajevo	BOSNIA AND HERZEGOVINA
Botanical Garden Balcik	Sofia	BULGARIA
Botanical Garden Druzba	Varna	BULGARIA
Department of Botany and Agrometeorology, Agricultural University. Plovdiv	Plovdiv	BULGARIA
Department of Botany, Plovdiv University	Plovdiv	BULGARIA
Department of Plant and Fungal Diversity and Resources, Bulgarian Academy of Sciences	Sofia	BULGARIA
The Institute of Introduction and Plant Resources "K.Malkov"	Sadovo	BULGARIA
University Botanical Gardens, Sofia University	Sofia	BULGARIA
Botanical Garden "Lokrum"	Dubrovnik	CROATIA

Botanical Garden of Medicinal Plants 'Fran Kusan', University of Zagreb	Zagreb	CROATIA
Botanical Garden of Medicinal Plants 'Fran Kusan'	Zagreb	CROATIA
Botanical Garden of the University of Zagreb	Zagreb	CROATIA
European weed research society	National Rep.	CROATIA
Nature Park Biokovo	Marineta	CROATIA
Nature park Ppuk	Voćin	CROATIA
School Botanic Garden 'Ostrog'	Kastel Luksic	CROATIA
Učka nature park	Lovran	CROATIA
Velebit Botanic Garden	Krasno	CROATIA
Skalnickárahů Praha	Braník	CZECH REPUBLIC
Botanická zahrada PŕF UP	Olomouc	CZECH REPUBLIC
Czech University of Life Sciences Prague	Suchdol	CZECH REPUBLIC
European weed research society	National Rep.	CZECH REPUBLIC
Teplice Botanical Garden	Teplice	CZECH REPUBLIC
The Botanic gardens, Mendel University	Brno	CZECH REPUBLIC
Botanical Museum and Library	Copenhagen	DENMARK
European weed research society	National Rep.	DENMARK
Botanical garden, University of Tartu	Tartu	ESTONIA
Talinn Botanic garden	Talinn	ESTONIA
European weed research society	National Rep.	FINLAND
CBNSA (National Botanical Conservatory South Atlantic	Audenge	FRANCE
Conservatoire Botanique National Alpin Domaine de Charance	Gap	FRANCE
Conservatoire botanique national de Brest	Nantes	FRANCE
Conservatoire Botanique National du Massif-Central	Chavaniac-Lafayette	FRANCE
Conservatoire Botanique National Méditerranéen de Porquerolles	Conservatoire Botanique National Alpin	FRANCE
Conservatoire Botanique Pierre Fabre	Soual	FRANCE
Conservatoire des Espace Naturels	Riom	FRANCE
Conservatoire et Jardins Botaniques de Nancy	Nancy	FRANCE

Conservatoire National des Plantes medicinales, aromatiques et industrielles	Milly-La-Forêt	FRANCE
European weed research society	National Rep.	FRANCE
Floralpina	Arras	FRANCE
Herbier-Universite de Montpellier II	Montpellier	FRANCE
Jardin Botanique Alpin " Daniella "	Limoges	FRANCE
Jardin Botanique Camifolia	Chemillé-Melay	FRANCE
Jardin Botanique de Bordeaux	Bordeaux	FRANCE
Jardin Botanique de la Faculte des Sciences Pharmaceutiques, Universté de Lille	Lille	FRANCE
Jardin botanique de la Presle	Montigny-Les-Metz	FRANCE
Jardin Botanique de la Ville de Caen	Caen	FRANCE
Jardin Botanique de la Ville de Limoges	Limoges	FRANCE
Jardin Botanique De La Ville Et De L'université De Caen	Caen	FRANCE
Jardin Botanique de la Ville et de l'Université de Tours	Tours	FRANCE
Jardin Botanique de la Ville et de l'Université de Besançon Université de Franche-Comte	Besançon	FRANCE
Jardin Botanique de l'École Veterinaire d'Alfort	Maisons-Alfort	FRANCE
Jardin botanique de Marnay sur Seine	Aube	FRANCE
Jardin Botanique de Marnay sur Seine	Marnay-Sur-Seine	FRANCE
Jardin Botanique de Talence	Talence	FRANCE
Jardin Botanique des Pyrenees-Occidentales	Saint-Jammes	FRANCE
Jardin Botanique du Col de Saverne	Saverne	FRANCE
Jardin Botanique du Tourmalet	Ossun	FRANCE
Jardin Botanique et Arboretum Henri Gaussen	Toulouse	FRANCE
Jardin Botanique Montagnard	Mazet-Saint-Foy	FRANCE
Jardin Botanique Paul Jovet	Saint-Jean De Luz	FRANCE
Jardin Botanique Universitaire De Poitiers	Poitiers	FRANCE
Jardin Botanique, Faculte Mixte de Medecine et Pharmacie	Angers	FRANCE
Jardin des Plantes	Lille	FRANCE

Jardins Botanique E.-M.-Heckel	Marseille	FRANCE
La Bambouseraie (Maurice Negre Parc Exotique de Prafrance)	Anduze	FRANCE
Les Jardins de Valloires	Argoules	FRANCE
Muséum d'Histoire Naturelle	Nice	FRANCE
Muséum d'Histoire Naturelle de Grenoble	Grenoble	FRANCE
Muséum d'histoire naturelle de Toulon et du Var	Toulon	FRANCE
Muséum d'Histoire Naturelle Herbar	Toulon	FRANCE
Société Linnéenne de Bordeaux	Bordeaux	FRANCE
Biozentrum Klein Flottbek und Botanischer Garten	Hamburg	GERMANY
Botanischer Garten der Carl von Ossietzky-Universität Oldenburg	Oldenburg	GERMANY
Botanischer Garten der Friedrich-Schiller-Universität, Jena	Jena	GERMANY
Botanischer Garten der Stadt	Langensalza	GERMANY
Botanischer Garten der Stadt Altenburg	Altenburg	GERMANY
Botanischer Garten der Stadt Wuppertal	Wuppertal	GERMANY
Botanischer Garten der Technischen Universität Darmstadt	Darmstadt	GERMANY
Botanischer Garten der Universität Erlangen	Erlangen	GERMANY
Botanischer Garten der Universität Gießen	Giessen	GERMANY
Botanischer Garten der Universität Halle	Wittenberg	GERMANY
Botanischer Garten der Universität Heidelberg	Heidelberg	GERMANY
Botanischer Garten der Universität Karlsruhe (TH)	Karlsruhe	GERMANY
Botanischer Garten der Universität Kiel	Kiel	GERMANY
Botanischer Garten der Universität Leipzig	Leipzig	GERMANY
Botanischer Garten der Universität Osnabrück	Osnabrück	GERMANY
Botanischer Garten der Universität Potsdam	Potsdam	GERMANY
Botanischer Garten der Universität Tübingen	Tübingen	GERMANY
Botanischer Garten der Westfälischen Wilhelms Universität	Münster	GERMANY
Botanischer Garten für Arznei- und Gewürzpflanzen	Oberholz	GERMANY
Botanischer Garten München-Nymphenburg	München	GERMANY
Botanischer Garten und Botanisches Museum Berlin-Dahlem	Berlin	GERMANY
Botanischer Garten und Botanisches Museum der FU Berlin	Berlin	GERMANY

Ernst-Moritz-Arndt-University Greifswald	Greifswald	GERMANY
European weed research society	National Rep.	GERMANY
Neuer Botanischer Garten der Universität Göttingen	Göttingen	GERMANY
Ökologisch-Botanischer Garten der Universität Bayreuth	Bayreuth	GERMANY
Balkan Botanic Garden of Kroussia	Kilkis	GREECE
Balkan Botanic Garden of Kroussia	Argostoli, Cephalonia	GREECE
Botanic Garden of Stavroupoli	Thessaloniki	GREECE
European weed research society	National Rep.	GREECE
General Directorate of Plant Produce, Directorate of Plant Produce Protection	Athens	GREECE
Hellenic Society for the Protection of Nature	Athens	GREECE
Botanic Garden – University of Szeged, formerly - Jozef Attila University BG	Szeged	HUNGARY
Botanical Garden of Szeged University	Szeged	HUNGARY
Diószegi Sámuel Botanic Garden	Debrecen	HUNGARY
Eötvös Loránd University Botanic Garden	Budapest	HUNGARY
European weed research society	National Rep.	HUNGARY
Hungarian Academy of Sciences - Botanic Garden	Budapest	HUNGARY
National Botanic Garden of Vacratot-Seed Bank	Vacratot	HUNGARY
National History Museum	Budapest	HUNGARY
University of Debrecen, Botanic Garden	Debrecen	HUNGARY
University of Pécs Botanic Garden	Pecs	HUNGARY
University of West Hungary, Botanic Garden	Sopron	HUNGARY
Hortus Botanicus Reykjavik	Reykjavik	ICELAND
Lystigardur Akureyrar	Akureyri	ICELAND
Arboreto di Arco, Trento	Trento	ITALY
Dipartimento di Biologia - Sezione di Botanica Erbario, 'Università de Ferrara	Ferrara	ITALY
European weed research society	National Rep.	ITALY
Giardino Botanico Alpino alle Viotte di M. Bondone	Trento	ITALY

<a href="http://www.piante-e-arbusti.it/">http://www.piante-e-arbusti.it/</a>	Contact Page	ITALY
Istituto e Orto Botanico Università di Parma	Parma	ITALY
L'Associazione Praugrande, <a href="http://www.praugrande.org/english.html">http://www.praugrande.org/english.html</a>	Contact Page	ITALY
Orto Botanico dell'Università di Palermo	Palermo	ITALY
Sezione Botanica, Centro Conservazione Biodiversità (CCB)	Sant'Ignazio Da Laconi	ITALY
European weed research society	National Rep.	LATVIA
National Botanic Garden	Salaspils	LATVIA
Nature Conservation Agency	Riga	LATVIA
European weed research society	National Rep.	LITHUANIA
Argotti Herbarium and University Botanic Gardens, University of Malta	Msida	MALTA
Department of Biology, University of Malta	Msida	MALTA
Arboretum Radigojno	Kolasin	MONTENEGRO
Botanic Garden	Kerkrade	NETHERLANDS
Botanic Garden Groningen \Domies Toen\	Groningen	NETHERLANDS
Botanic Garden, Delft University of Technology	Delft	NETHERLANDS
European weed research society	National Rep.	NETHERLANDS
Hortus Botanicus, Nijmegen University	Nijmegen	NETHERLANDS
Hortus Botanicus, State University of Leiden, Leiden	Leiden	NETHERLANDS
Utrecht University Botanic Gardens	Utrecht	NETHERLANDS
European weed research society	National Rep.	POLAND
The botanic garden in Lodz	Lodz	POLAND
the University of Łód	Lodz	POLAND
Jardim Botanico da Ajuda, Lisboa	Lisbon	PORTUGAL
Jardim Botânico da Universidade de Lisboa	Lisbon	PORTUGAL
Jardim Botânico da Universidade de Trás-os-Montes e Alto Douro, Vila Real	Vila Real	PORTUGAL
Jardim Botânico do Faial	Azores	PORTUGAL
Botanic Garden of the Biological Institute, University of Skopje	Skopje	REPUBLIC OF MACEDONI
Kavadarci Forestry School Botanical Garden	Kavadarci	REPUBLIC OF MACEDONI
St. Cyril and Methodius University Botanic Garden	Skopje	REPUBLIC OF MACEDONI

Agrobotanical Garden - USAMV, Cluj-Napoca	Cluj-Napoca	ROMANIA
Gradina Botanica a `Anastasiu Fatu`, Iasi	Iasi	ROMANIA
Gradina botanica a Complexului Muzeal de Stiintele Naturii din Galati	Galati	ROMANIA
Gradina Botanica a Universitatii din Bucuresti	Bucarest	ROMANIA
Gradina Botanica a Universitatii din Craiova	Craiova	ROMANIA
Gradina Botanica din Tulcea	Tulcea	ROMANIA
Gradina Botanica Macea	Macea	ROMANIA
Gradina Botanica Macin	Macin	ROMANIA
Gradina Botanica Targu Mures	Tirgu-Mures	ROMANIA
Institutului de Cercetari Biologice din Jibou	Jibou	ROMANIA
Immanuel Kant State University Botanical Garden	Kaliningrad	RUSSIA
Botanical Garden Novi Sad	Novi Sad	SERBIA
Botanical Institute and Botanic Garden	Belgrade	SERBIA
European weed research society	National Rep.	SERBIA
Agricultural University of Nitra Botanic Garden	Nitra	SLOVAKIA
Botanicka Zahrada	Banska Stiavnica	SLOVAKIA
Botanická záhrada - Univerzity Pavla Jozefa Safárika	Kosice	SLOVAKIA
Comenius University Faculty of Pharmacy, Garden of Medicinal Plants	Bratislava	SLOVAKIA
Dept of Planting Design and Maintenance	Nitra	SLOVAKIA
Expozícia tatranskej prírody	Tatranská Lomnica	SLOVAKIA
Lesnicke arboretum Kysihybel	Banska Stiavnica	SLOVAKIA
Plant Production Research Institute	Pieštany	SLOVAKIA
Stredná lesnícka skola Jozefa Dekreta Matejovie	Liptovský Hrádok	SLOVAKIA
Institut Za HMeljarstvo	Zalec	SLOVENIA
Juliana Alpine Botanical Garden	Ljubljana	SLOVENIA
Ljubljana University Botanic Garden	Ljubljana	SLOVENIA
Maribor University Botanic Garden	Hoče	SLOVENIA
University Botanic Gardens	Ljubljana	SLOVENIA
Arboretum i Jardí Botànic de Lleida Dr. Pius Font i Quer	Lleida	SPAIN
European weed research society	National Rep.	SPAIN

Facultad de Farmacia, Universidad CEU-San Pablo	Madrid	SPAIN
Fundació Jardí Botànic de Sóller Herbario	Sóller, Balearic Islands	SPAIN
Institut Botànic de Barcelona Herbario	Barcelona	SPAIN
Jardí Botànic Marimurtra	Blanes	SPAIN
Universidad de Alcalá, Herbario AH	Alcalá	SPAIN
Universidad de Alicante, Herbario ABH: Tipos.	Alicante	SPAIN
Universidad de Almería, Herbario HUAL	Almería	SPAIN
Botaniska trädgården Uppsala universitet	Uppsala	SWEDEN
European weed research society	National Rep.	SWEDEN
Göteborgs botaniska trädgård	Gothenburg	SWEDEN
Basel Botanic Garden	Basel	SWITZERLAND
Botanischer Garten der Universität Bern	Bern	SWITZERLAND
Botanischer Garten Im Eichholz, Grueningen	Grueningen	SWITZERLAND
Botanischer Garten Sankt Gallen	Gallen	SWITZERLAND
Botanischer Garten Zürich	Zurich	SWITZERLAND
European weed research society	National Rep.	SWITZERLAND
Isole de Brissago Botanic Garden	Brissago	SWITZERLAND
Jardin Botanique de l'Université de Fribourg	Fribourg	SWITZERLAND
Jardin Botanique de l'Université et de la ville de de Neuchâtel	Neuchâtel	SWITZERLAND
Merian Park, Botanischer Garten AG	Brüglingen	SWITZERLAND
Musée et Jardins Botaniques Cantonaux de Lausanne	Lausanne	SWITZERLAND
Musée jurassien des Sciences naturelles, Porrentruy	Porrentruy	SWITZERLAND
Institute of Biological, Environmental & Rural Sciences	Aberystwyth	UNITED KINGDOM
Botanical Society of Britain and Ireland	East Glocuershire Vc33	UNITED KINGDOM
Botanical Society of Britain and Ireland	East Sutherland Vc107	UNITED KINGDOM
Botanical Society of Britain and Ireland	Recorder, W.Ross, Scotland	UNITED KINGDOM
Botanical Society of Britain and Ireland	Recorder, N. Ebudes, Scotland	UNITED KINGDOM
Botanical Society of Britain and Ireland	Recorder, Kent, England	UNITED KINGDOM
Botanical Society of Britain and Ireland	Recorder, Midlothian, Scotland	UNITED KINGDOM
Botanical Society of Britain and Ireland	Recorder, E. Ross, Scotland	UNITED KINGDOM

Botanical Society of Britain and Ireland	Recorder, Fife and Kinross, Scotland	UNITED KINGDOM
Botanical Society of Britain and Ireland	Scottish Co-Ordinator	UNITED KINGDOM
Chelsea Physic Garden	Chelsea	UNITED KINGDOM
Chief Plant Health Officer	Science and Advice for Scottish Agriculture	UNITED KINGDOM