

**Working Group on Biochemical and Molecular Techniques
and DNA-Profiling in Particular****BMT/16/2****Sixteenth Session
La Rochelle, France, November 7 to 10, 2017****Original:** English
Date: November 2, 2017

**REPORTS ON DEVELOPMENTS IN UPOV CONCERNING BIOCHEMICAL AND MOLECULAR
TECHNIQUES***Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance*

The Annex of this document contains a copy of a presentation “Report on Developments in UPOV concerning Biochemical and Molecular Techniques” to be made by the Office of the Union at the sixteenth session of the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular.

[Annex follows]

Working Group on Biochemical and Molecular Techniques
and DNA-Profiling in Particular (BMT)
Sixteenth Session

**Report on developments in UPOV
concerning
Biochemical and Molecular Techniques**

*Peter Button, Vice Secretary-General
Tomochika (Tom) Motomura, Technical/Regional Officer (Asia)
UPOV*

*La Rochelle, France,
November 7-10, 2017*

UPOV

International Union for the Protection of New Varieties of Plants

Preview

Developments in UPOV:

- General
 - membership & statistics
 - people & publications
 - PBR application tool (EAF)
 - impact of UPOV membership
 - UN SDGs & plant genetic resources
- Biochemical and molecular techniques

UPOV

MEMBERSHIP OF UPOV

75 members

New member

Bosnia and Herzegovina **October 10, 2017***

* Bosnia and Herzegovina will become bound to the 1991 Act on November 10, 2017.

3

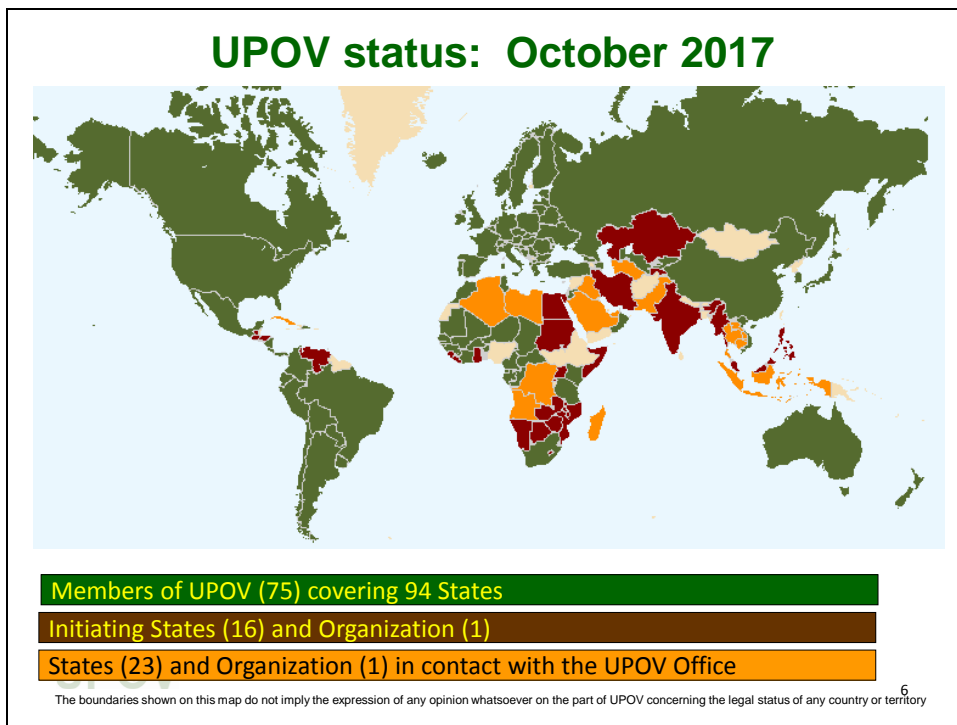
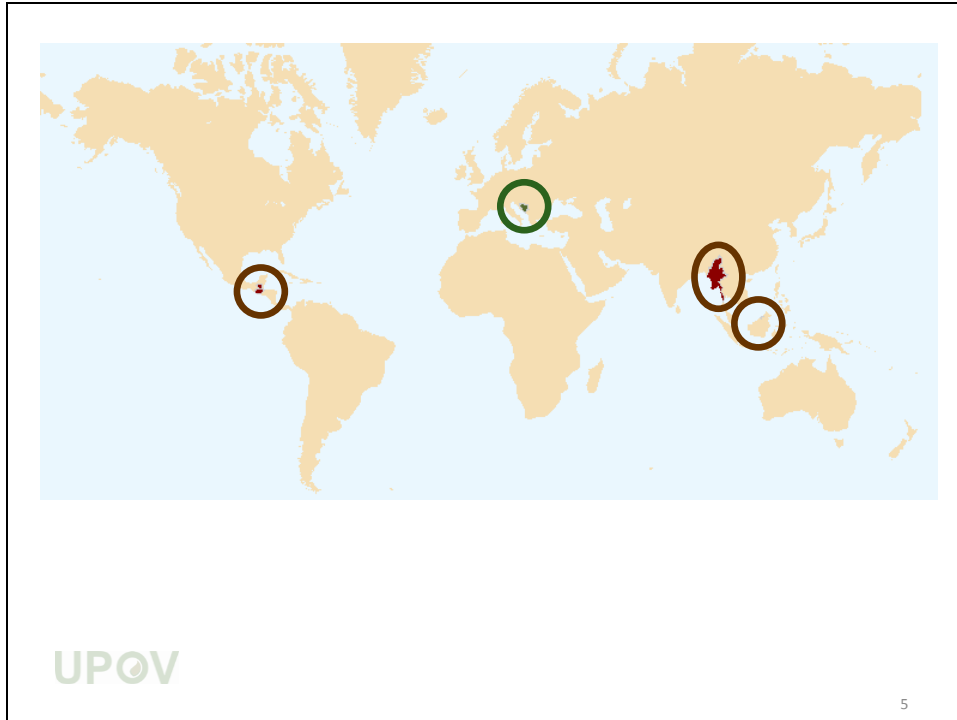
SITUATION in UPOV

Examination of Laws

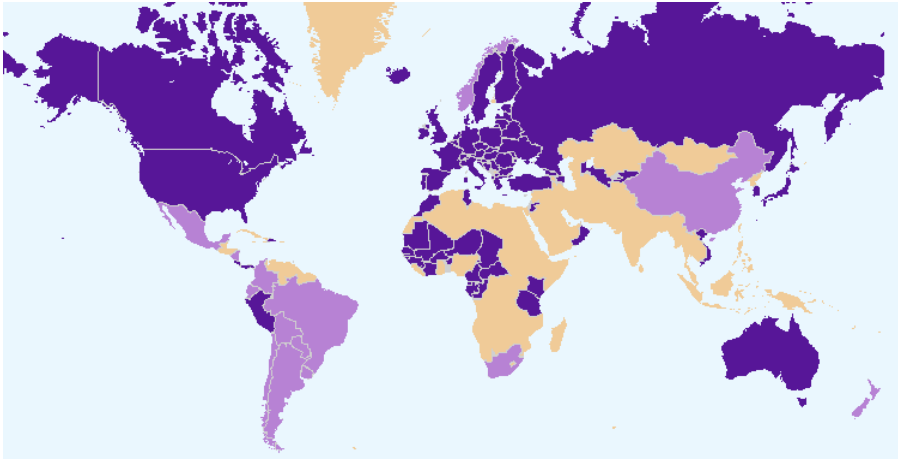
	<u>Council session</u>	<u>Advice</u>
Brunei Darussalam	October 26, 2017	Positive
Guatemala	October 26, 2017	Positive
Myanmar	October 26, 2017	Positive

UPOV

4



UPOV Membership



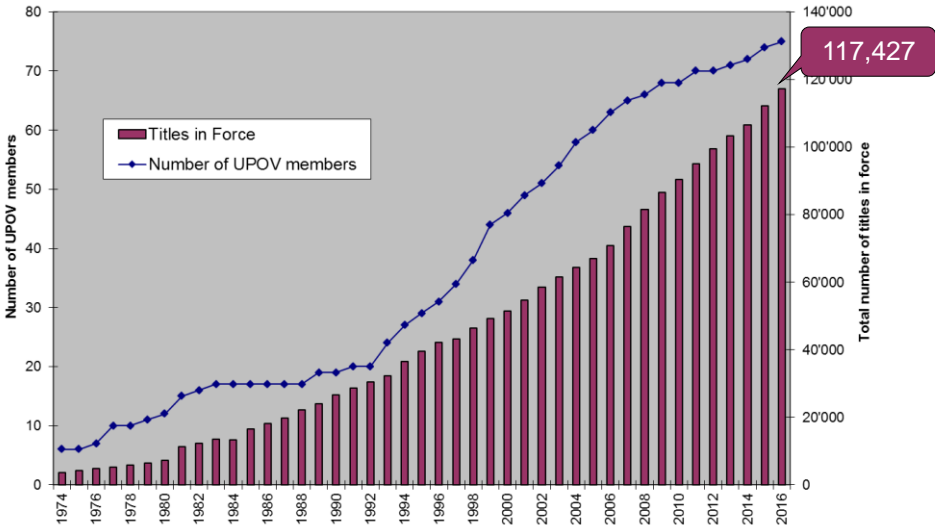
1991 Act: 57 members – Other Acts: 18 members

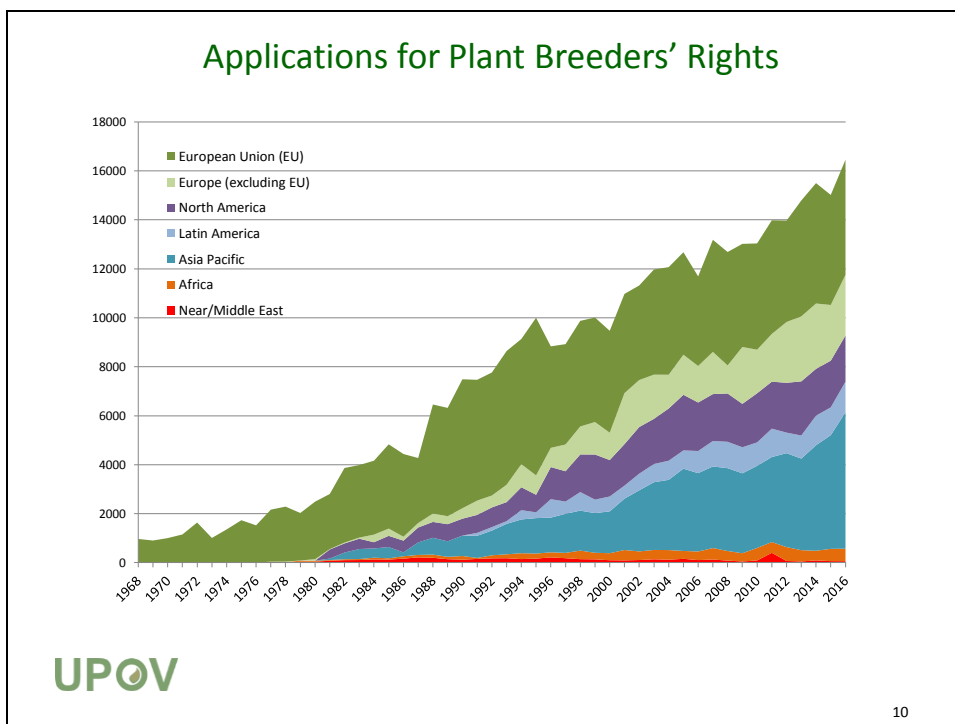
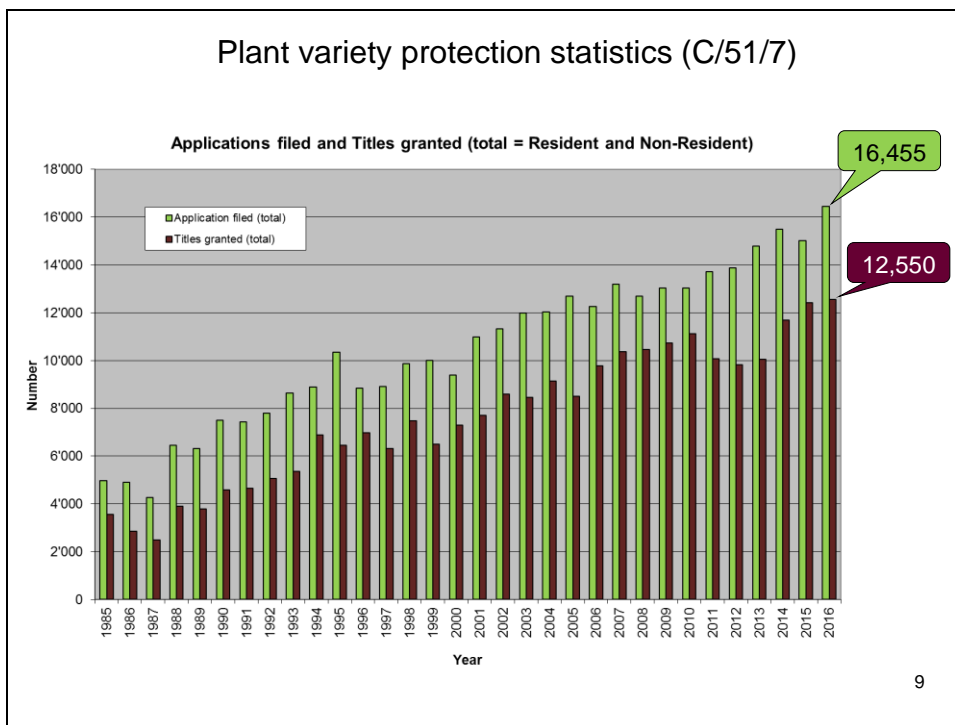
The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory

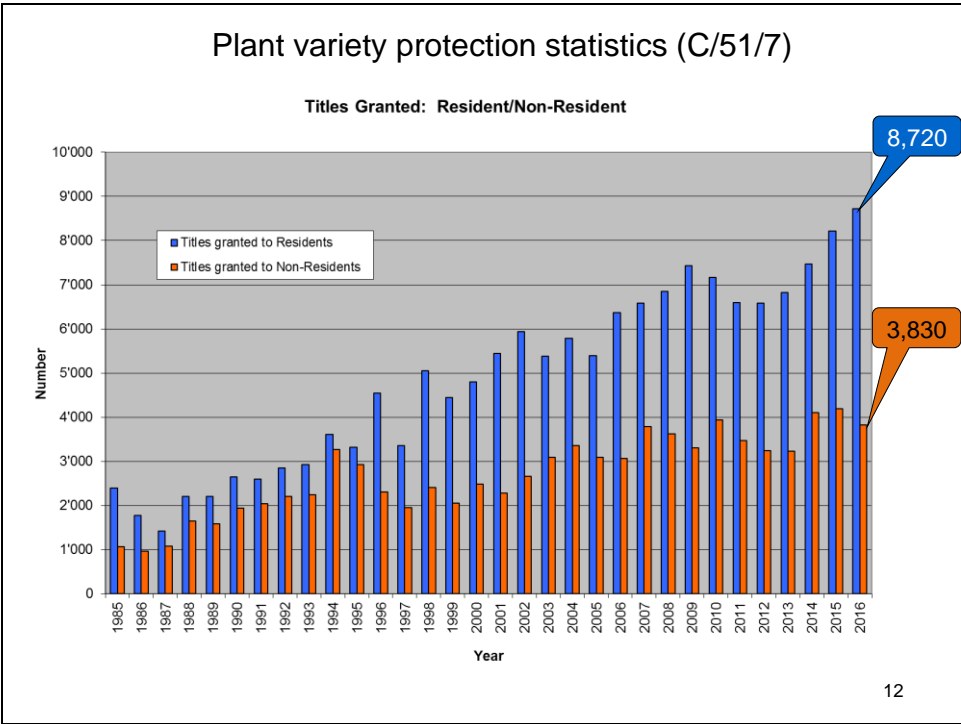
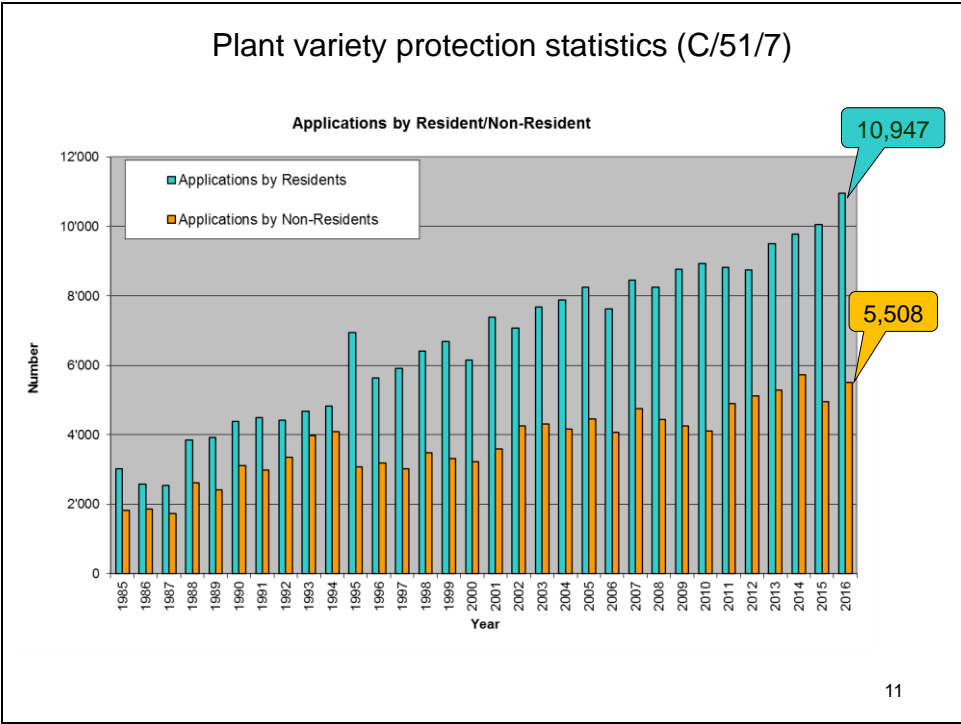


Plant variety protection statistics (C/51/7)

PBR Titles in Force: All UPOV







Top 10: UPOV members by number of applications

Rank	2007		2015		2016	
	Member	Number of applications	Member	Number of applications	Member	Number of applications
1	European Union	2'968	European Union	3'111	European Union	3'299
2	United States of America	1'485	China ↑3	2'342	China	2'923
3	Japan	1'406	United States of America ↓1	1'634	United States of America	1'604
4	Russian Federation	885	Ukraine ↑3	1'075	Ukraine	1'274
5	China	877	Japan ↓2	914	Japan	977
6	Netherlands	846	Netherlands	799	Republic of Korea ↑1	966
7	Ukraine	560	Republic of Korea ↑1	757	Netherlands ↓1	804
8	Republic of Korea	527	Russian Federation ↓4	743	Russian Federation	772
9	Canada	430	Australia ↑1	359	Australia	387
10	Australia	336	Brazil ↑3	355	Brazil	326

13

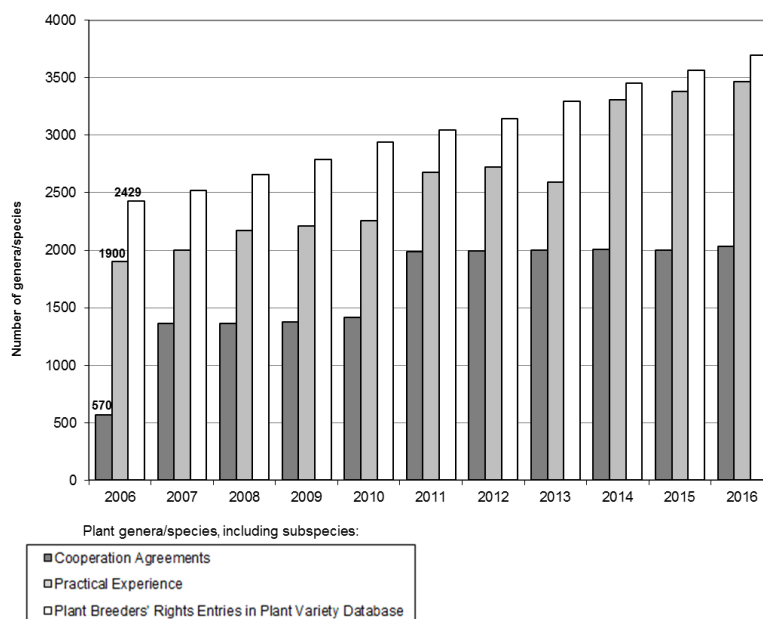
Top 20: Country of residence of applicants (2016)

Rank	Country of residence of breeder	Applications filed as:				
		Resident			Non-resident	Total
		Resident	CPVO (EU member States)	Total		
1	Netherlands	674	1'281	1'955	1'174	3'129
2	China	2'686	0	2'686	34	2'720
3	United States of America	812	0	812	1'223	2'035
4	France	67	467	534	516	1'050
5	Germany	50	395	445	489	934
6	Republic of Korea	860	0	860	26	886
7	Japan	609	0	609	152	761
8	Russian Federation	613	0	613	1	614
9	Ukraine	364	0	364	0	364
10	Australia	140	0	140	176	316
11	Switzerland	5	0	5	307	312
12	Brazil	200	0	200	71	271
13	Denmark	2	101	103	151	254
14	Argentina	171	0	171	62	233
15	United Kingdom	17	95	112	108	220
16	Spain	29	70	99	100	199
17	Italy	11	79	90	109	199
18	Israel	45	0	45	141	186
19	Czech Republic	60	15	75	89	164
20	Viet Nam	162	0	162	0	162
	Sum of top 20	7'577	2'503	10'080	4'929	15'009
	Others	749	118	867	579	1'446
	Total	8'326	2'621	10'947	5'508	16'455

Top 20: Country of residence of applicants

Rank	2007		2015		2016	
	Residence	App. #	Residence	App. #	Residence	App. #
1	Netherlands	2'600	Netherlands	2'720	Netherlands	3'129
2	United States of America	1'764	China	↑3 2'100	China	2'720
3	Germany	1'336	United States of America	↓1 2'027	United States of America	2'035
4	Japan	1'283	France	↑3 1'038	France	1'050
5	China	818	Germany	↓2 942	Germany	934
6	Russian Federation	777	Japan	↓2 766	Republic of Korea	↑1 886
7	France	621	Republic of Korea	↑1 647	Japan	↓1 761
8	Republic of Korea	388	Russian Federation	↓2 640	Russian Federation	614
9	Ukraine	318	Ukraine	412	Ukraine	364
10	Australia	314	Australia	368	Australia	316
11	United Kingdom	253	Switzerland	↑5 358	Switzerland	312
12	Argentina	243	Spain	↑3 306	Brazil	↑2 271
13	Denmark	225	Argentina	↓1 248	Denmark	↑3 254
14	Italy	193	Brazil	↑6 223	Argentina	↓1 233
15	Spain	181	United Kingdom	↓4 219	United Kingdom	220
16	Switzerland	178	Denmark	↓3 191	Spain	↓4 199
17	New Zealand	176	Israel	↑1 180	Italy	↑1 199
18	Israel	174	Italy	↓4 148	Israel	↓1 186
19	South Africa	144	New Zealand	↓2 135	Czech Republic	↑5 164
20	Brazil	121	Canada	↑4 119	Viet Nam	↑2 162

Cooperation in Examination (C/51/5)



Preview

Developments in UPOV:

- General
 - membership & statistics
 - **people & publications**
 - PBR application tool (EAF)
 - impact of UPOV membership
 - UN SDGs & ITPGRFA
- Biochemical and molecular techniques

UPOV

17

Elections - for a term of three years ending in 2019

UPOV

Search
Contact us Site map YouTube

ABOUT UPOV

MEMBERSHIP

UPOV SYSTEM

PVP DATA & STATISTICS

MEETINGS

NEWS

ABOUT UPOV

- :: Mission Statement
- :: Overview
- :: Organigram
- :: Office of UPOV
- :: **Officers**
- :: UPOV Convention
- :: Benefits of UPOV System
- :: Key Issues
- :: FAQs
- :: Publications

HOME » ABOUT UPOV »

Officers



President, Council / Président, Conseil / Präsident, Rat / Presidente, Consejo

Mr. Raimundo Lavignolle, Presidente del directorio, Instituto Nacional de Semillas (INASE), Venezuela 162, 11º, C1095AAD Buenos Aires, Argentina
(tel.: +54 11 32205432 e-mail: rlavignolle@inase.gov.ar)



Vice-President, Council / Vice-président, Conseil / Vizepräsident, Rat / Vicepresidente, Consejo

Mr. Marien Valstar, Senior Policy Officer, Seeds and Plant Propagation Material, Ministry of Economic Affairs, DG AGRO, The Hague, Netherlands
(tel.: +31 70 3 796 911 e-mail: m.valstar@minez.nl)

UPOV

18



**Chair, Administrative and Legal Committee (CAJ) /
Président, Comité administratif et juridique (CAJ) /
Vorsitzender, Verwaltungs- und Rechtsausschuß (CAJ) /
Presidente, Comité Administrativo y Jurídico (CAJ)**

Mr. Anthony Parker, Commissioner, Plant Breeders' Rights Office, Canadian Food
Inspection Agency (CFIA), Ottawa, Canada
(tel.: +1 613 7737188 e-mail: anthony.parker@inspection.gc.ca)



**Vice-Chair, Administrative and Legal Committee (CAJ) /
Vice-président, Comité administratif et juridique (CAJ) /
Stellvertretender Vorsitzender, Verwaltungs- und
Rechtsausschuß (CAJ) / Vicepresidente, Comité
Administrativo y Jurídico (CAJ)**

Mr. Patrick Ngwediagi, Registrar, Plant Breeders' Rights Office, Ministry of
Agriculture, Food Security and Cooperatives, Dar es Salaam, United Republic of
Tanzania
(tel.: +255 22 2861404 e-mail: ngwedi@yahoo.com)

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19



**Chair, Technical Committee / Président, Comité
technique / Vorsitzender, Technischer Ausschuß /
Presidente, Comité Técnico**

Mr. Kees van Ettekov, Senior PVP Policy Advisor, Naktuinbouw NL, Sotaweg
22, Postbus 40, NL-2370 AA Roelofarendsveen, Netherlands
(tel.: +31 71 332 6128 e-mail: c.vettekov@naktuinbouw.nl)



**Vice-Chair, Technical Committee / Vice-président,
Comité technique / Stellvertretender Vorsitzender,
Technischer Ausschuß / Vicepresidente, Comité
Técnico**

Mr. Nik Hulse, Chief of Plant Breeders' Rights, Plant Breeder's Rights Office, IP
Australia, Woden, Australia
(tel.: +61 2 6283 7982 e-mail: nik.hulse@ipaustralia.gov.au)

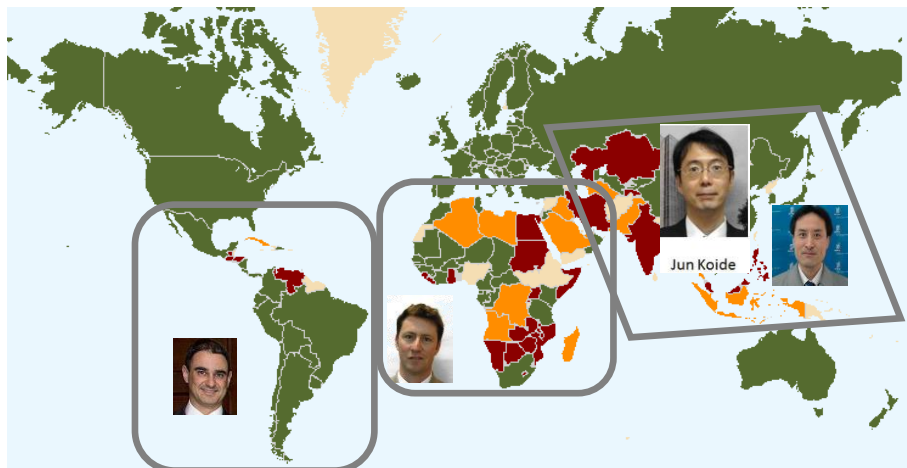
UPOV

20

Elections - for a term of three years ending in 2020

- BMT** Mr. Nik Hulse (Australia)
- TWA Ms. Cheryl Turnbull (United Kingdom)
- TWC Mr. Christophe Chevalier (France)
- TWF Mr. Jean Maison (European Union)
- TWO Mr. Henk de Greef (Netherlands)
- TWV Ms. Romana Bravi (Italy)

UPOV Office by region



Preview

Developments in UPOV:

- General
 - membership & statistics
 - people & **publications**
 - PBR application tool (EAF)
 - impact of UPOV membership
 - UN SDGs & plant genetic resources
- Biochemical and molecular techniques

UPOV

23

UPOV

UPOV

24

Stakeholder features added

The screenshot shows the UPOV website homepage. At the top, there are language options (Deutsch, Español, Français, Other) and a search bar. The main navigation bar includes: ABOUT UPOV, MEMBERSHIP, UPOV SYSTEM, PVP DATA & STATISTICS, MEETINGS, NEWS, and Stakeholder features (highlighted with a red arrow). Below the navigation bar, there is a banner for 'Results of the Enforcement Seminar' featuring a sunflower. To the right, a 'Stakeholder features' box lists: Breeders, Farmers and Growers, Policy makers, and General Public. Below this are links for GENE Database, UPOV Lex, and Plant Variety Database (PLUTO). A 'Quick Links' section lists: Introduction to UPOV, Benefits of UPOV, UPOV Collection, Test Guidelines, Distance Learning Courses, Seminars & Symposia, and FAQs. A 'Welcome' section provides information about UPOV's mission and history. The footer contains 'Copyright © 2011, UPOV' and 'Terms of use'.

BREEDERS

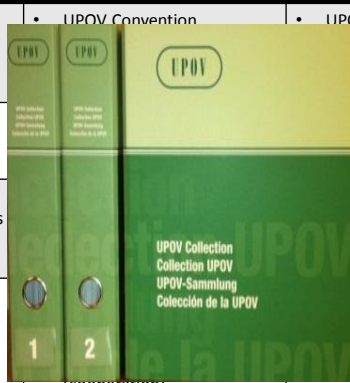
The screenshot shows the 'Breeders' page on the UPOV website. The navigation bar is the same as the homepage. On the left, there is a 'STAKEHOLDERS FEATURES' sidebar with 'Breeders' selected. The main content area is titled 'Breeders' and includes:

- UPOV Information:** UPOV Membership, UPOV Observers, UPOV Collection (guidance & information materials), List of taxa protected by members of the Union, Cooperation in Examination, Calendar of meetings, Full list of FAQs.
- Resources:** Databases (see below), Test Guidelines, Director PVP Offices, UPOV Distance Learning Courses, UPOV Youtube channel.
- Key Topics:** FBR and contracts, Essentially derived varieties, Notion of breeder.
- Databases:**
 - PLUTO:** Information on plant varieties, particularly variety denominations.
 - GENE:** Information on GENEra/species protected by members and information related to DUS examination.
 - UPOV Lex:** UPOV Lex contains the legislation of members of the Union.
- FAQs for breeders:**
 - Where do I apply for protection of a variety?
 - Can I obtain protection for more than one country from a single application?
 - Who is responsible for enforcing plant breeders' rights?
 - Can I protect an existing plant or variety that I discover?
 - Does the UPOV Convention allow a variety to be refused protection because it is genetically modified?
 - Can I use plant variety protection to protect the following:
 - a trait (e.g. disease resistance, flower color)
 - a chemical or other substance (e.g. oil, DNA)
 - a plant breeding technology (e.g. tissue culture)?
 - Can I protect a hybrid variety under the UPOV system?
 - Does UPOV allow molecular techniques (DNA profiles) in the examination of Distinctness, Uniformity and Stability (DUS)?

 The UPOV logo is visible in the bottom left corner.

The screenshot shows the UPOV website interface. At the top, there are language options (Deutsch, Español, Français, Other) and a search bar. Below the navigation menu, a YouTube video player is embedded, displaying a video titled "IMPACT OF PLANT VARIETY PROTECTION". A red arrow points to the search bar in the video player. The video player also shows a "Welcome" message and a "Top of page" link.


Harmonization, Resources and Assistance


		Harmonization	Resources	Training & assistance
	PVP Law	<ul style="list-style-type: none"> • UPOV Convention 	<ul style="list-style-type: none"> • UPOV Lex 	
IMPLEMENTATION	➤ Application	 <p>(cooperation)</p>	project	<ul style="list-style-type: none"> • Distance Learning course • Trainers • UPOV events & activities • Assistance by individual UPOV members
	➤ Variety Denominations		TO database	
	➤ DUS Testing		IE Database changeable ware	


Selected EXN/INF developments		
Reference	Explanatory Notes on:	Timetable
UPOV/EXN/EDV/2 (revision)	Essentially Derived Varieties	Adopted by the Council in April 2017
UPOV/EXN/PPM/1	Propagating Material	Adopted by the Council in April 2017
UPOV/INF/13/2	Guidance on how to become a member of UPOV (adoption by correspondence)	Adopted by the Council in April 2017
UPOV/INF/5 (revision)	UPOV model plant breeders' rights gazette	possible revision to be considered by CAJ in October 2018
UPOV/INF/12 (revision)	Variety Denominations	WG-DEN

29


ESSENTIALLY DERIVED VARIETY?











 (Photo: istockphoto/valentinarr)

30

Program for CAJ in 2018

Presentations by members and observers to share their perspectives on :

- (a) **Essentially Derived Varieties**
 - (i) essential characteristics
 - (ii) predominantly derived
 - (iii) indirect derivation, including in relation to parent lines and hybrids
 - (iv) assessment of essentially derived varieties
- (b) **Conditions and Limitations** Concerning the Breeder's Authorization in Respect of Propagating Material
 - suitable examples of conditions and limitations
- (c) Scope of **Provisional Protection**

31

Preview

Developments in UPOV:

- General
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 - **PBR application tool (EAF)**
 - impact of UPOV membership
 - UN SDGs & plant genetic resources
- Biochemical and molecular techniques

UPOV

32

New name for the EAF
PBR Application Tool

PRISMA



Key benefits

- **Online PBR application tool** to provide application data to participating PVP Offices in required format (hard copy, e-mail notification, system-to-system)
- Application forms can be displayed in **range of languages** (answers must be provided in acceptable language for PVP Office - some information in TQ will be automatically translated in navigation and output form languages)
- Variety data can be **re-used** in subsequent applications
- Different **user roles** can be specified (e.g. drafter, signatory, translator, agent, procedural representative)
- **Controlled access, secure** and confidential
- **Easy access** to PVP application forms
[and next steps in procedure from mid-2018]
- **Track** your applications...



The image shows a screenshot of the UPOV website. At the top left is the UPOV logo. To the right is a search bar and links for 'Contact us', 'Site map', and 'YouTube'. Below this is a navigation menu with items: 'ABOUT UPOV', 'MEMBERSHIP', 'UPOV SYSTEM', 'PVP DATA & STATISTICS', 'MEETINGS', and 'NEWS'. The main content area features a large image of sunflowers. A yellow callout box labeled 'PRISMA tool' points to a 'PBR Application Tool (EAF)' link in the 'Stakeholder features' sidebar. A grey callout box labeled 'Information' points to another 'PBR Application Tool (EAF)' link in the 'Quick Links' sidebar. The 'Welcome' section contains text about the organization's history.

Evolution

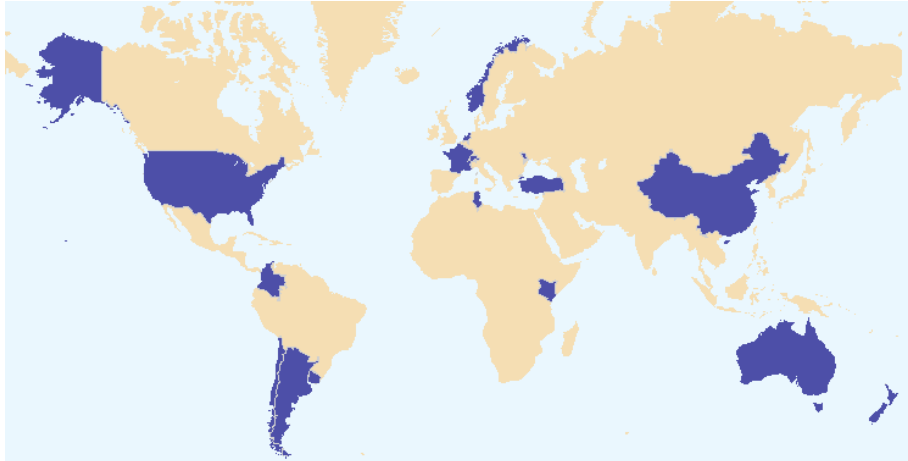
- Launch of EAF Version 1.0
– January 2017
- Version 1.1
– July 2017

UPOV members (16) and crops (5) currently covered by
PBR Application Tool (EAF)

AUTHORITY	APPLE FRUIT VARIETIES	LETTUCE	POTATO	ROSE	SOYABEAN
Argentina	√		√	√	√
Australia	√	√	√	√	√
Chile	√	√	√	√	√
China		√		√	
Colombia				√	
France	√	√	√	√	√
Kenya	√	√	√	√	√
Netherlands	√	√	√	√	√
New Zealand	√	√	√	√	
Norway	√	√	√	√	√
Republic of Moldova	√	√	√	√	√
Switzerland	√	√	√	√	√
Tunisia	√	√	√	√	√
Turkey	√	√	√	√	√
United States of America		√	√		√
Uruguay	√		√		√

37

Coverage of the EAF: July 2017



Navigation languages

The screenshot shows the UPOV Electronic Application Form interface. At the top, there is a green header with the UPOV logo and the text "Electronic Application Form". Below the header, there are several navigation buttons: "Start a new application", "Copy application", "User Role Management", and "Edit User profile". The main content area is titled "Your Applications" and contains a table with the following columns: "International Reference Number", "Created On", "Modified On", "Date of Submission", "Crop", "Proposed Variety Denomination", "Breeder's Variety Reference", and "Submitter's Own Variety Reference". The table contains two rows of data for applications with reference numbers XU_3020170000658 and XU_3020170000659. To the right of the table, there is a language selection dropdown menu with the following options: English, Français, Deutsch, Español, and 中文.

Output form languages

Romanian

Turkish

Referința
UPOV
XU_30201700016621

Se completează de către A G E P I	
Registratura A G E P I	Registrul Național de cereri de brevet
intrare	pentru soiurile de plantă
Nr.	(22) Număr depozit
Data	(22) Data depozit

Türler:

Yetki:

Her sorunun yanındaki gri metin, için
[UPOV Model Form for the Applicatic](#)

Uygulama Formu

BAŞVURU SAHİBİ

Başvuru Sahibinin Adı 1(a)(i)

Başvuru Sahibinin Adresi 1(a)(ii)

Ülkesi

Telefon 1(a)(iii)

Faks 1(a)(iv)

e-Posta 1(a)(v)

.....

UPOV

Søknad (XU_30201600001742)

Art:

Land / myndighet:

Salat

NO

Norwegian

Teksten i grått bak hvert spørsmål angir korresponderende standard UPOV referanse slik den er definert i:
[TGP/5/Section 2: UPOV Model Form for the Application for Plant Breeder's Rights](#)

Søknadsskjema

Søker (sortseier)

Navn 1(a)(i)	Hend Madhour
Adresse 1(a)(ii)	Chemin de folleu
Postnummer	
Land	Switzerland
E-post 1(a)(v)	hend.madhour@upov.int
Telefon 1(a)(iii)	
Fax 1(a)(iv)	

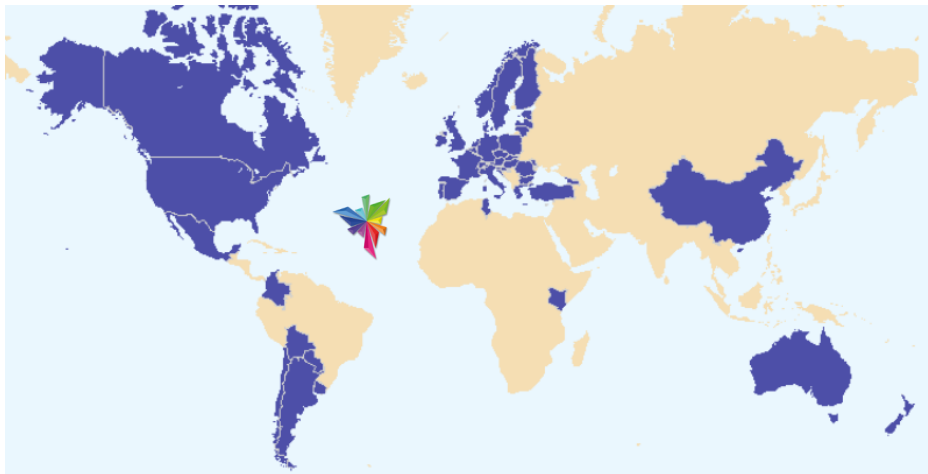
.....

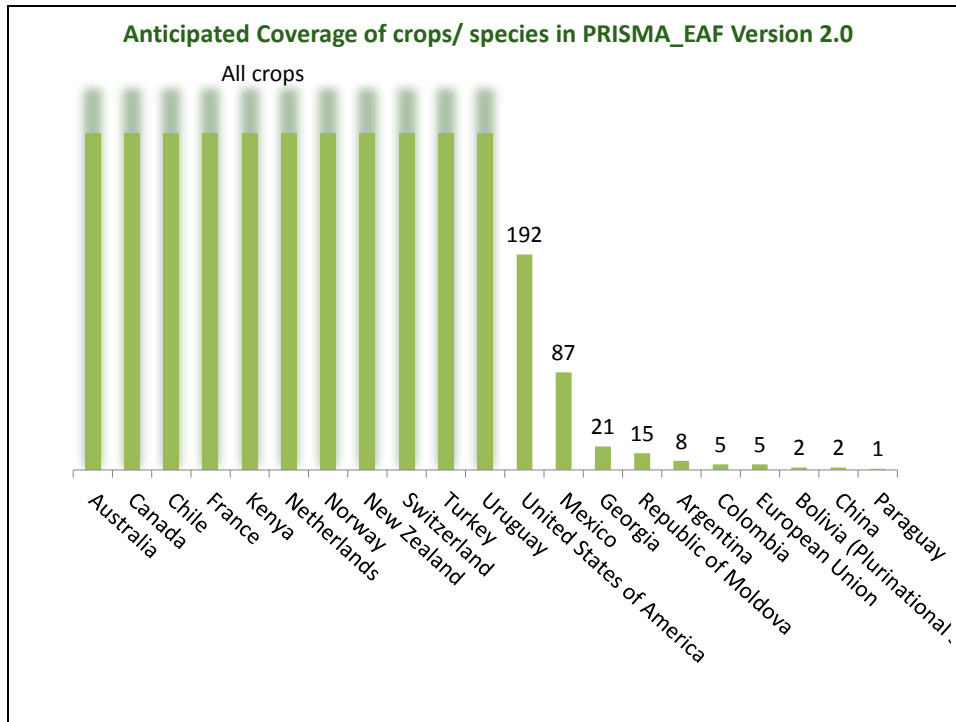
Anticipated expansion from January 2018 (Version 2.0)

- Bolivia (Plurinational State of)
- Canada
- European Union
- Georgia
- Mexico
- Paraguay

UPOV

Anticipated coverage January 2018





New languages

- Navigation language
 - Japanese
- Output form language
 - Georgian

Navigation languages

The screenshot shows the UPOV Electronic Application Form interface. On the right side, there is a vertical dropdown menu for language selection. The menu is currently set to 'English' and includes options for 'Français', 'Deutsch', 'Español', '中文', and '日本語'. The main content area on the left shows a table of applications under the heading 'Your Applications'.

International Reference Number	Created On	Modified On	Date of Submission	Crop	Proposed Variety Denomination	Breeder's Variety Reference	Submitter's Own Variety Reference
XU_30201700000658	28/05/2017	14/09/2017	NA	Rose			1
XU_30201700000659	28/06/2017	28/06/2017	NA	Rose			1



Translation alert

The screenshot shows a list of application form sections. Each section has a small icon indicating its translation status: a green checkmark for sections that are checked for translation and a red exclamation mark for sections that are not. A callout box on the right provides instructions for these icons.

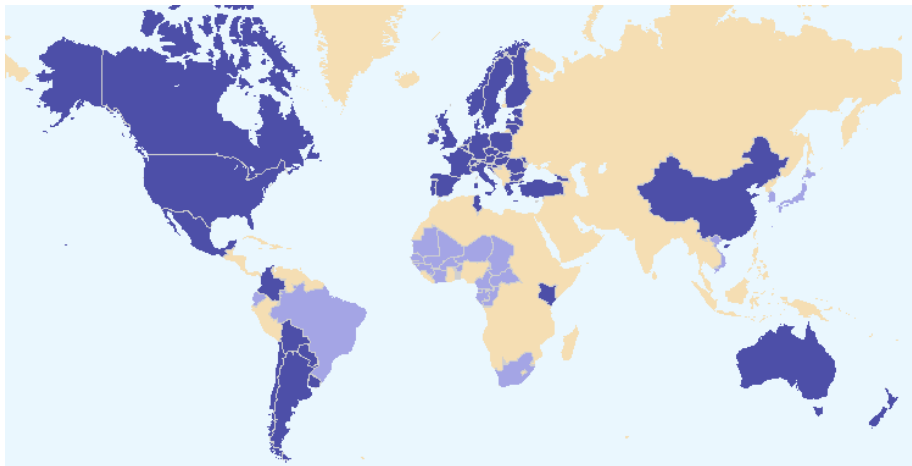
- Highlight sections requiring translation
- Check/uncheck translation by chapter

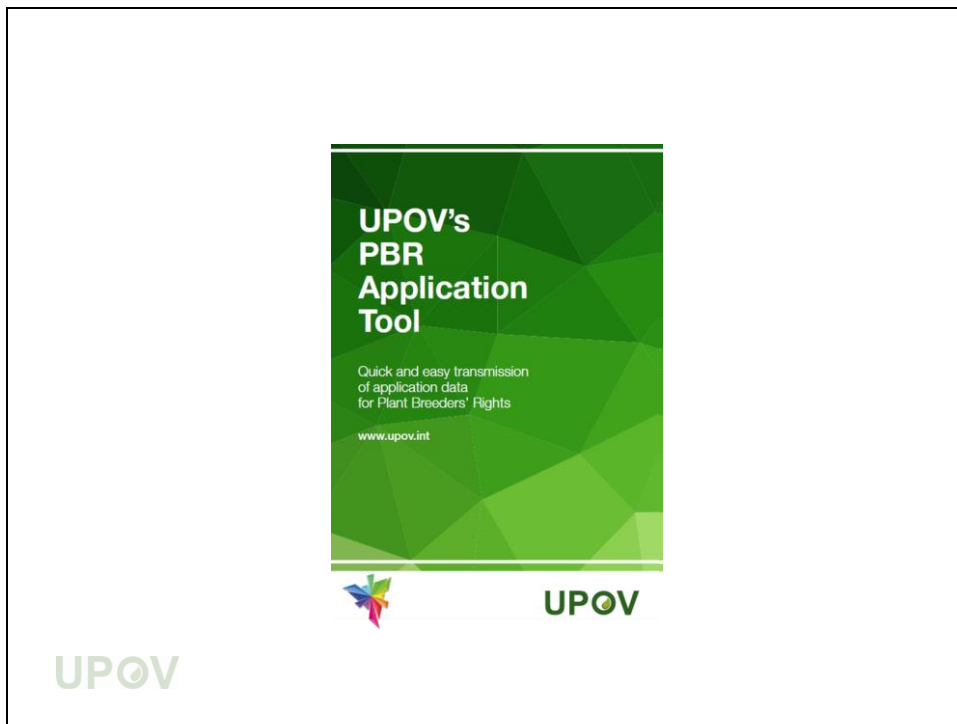
EAF Version 2.1 (mid-2018)

- New authorities which could be included in Version 2.1:
 - Brazil
 - (Ecuador)
 - (Japan)
 - Republic of Korea
 - Viet Nam
 - OAPI
 - South Africa

UPOV

New authorities which could be included in EAF Version 2.1





WEBSITE & SOCIAL MEDIA

Where to find it...

The screenshot shows the UPOV website homepage. A red callout box labeled "PRISMA tool" points to the "PBR Application Tool (EAF)" link in the "Stakeholder features" section. Another red callout box labeled "Information" points to the "PBR Application Tool (EAF)" link in the "Quick Links" section.

UPOV

ABOUT UPOV | MEMBERSHIP | UPOV SYSTEM | PVP DATA & STATISTICS | MEETINGS | NEWS

Stakeholder features

- Breeders
- Farmers and Growers
- Policy makers
- General Public

NEW PBR Application Tool (EAF)

GENIE Database

UPOV Lex

Plant Variety Database (PLUTO)

Quick Links

- Introduction to UPOV
- Benefits of UPOV
- PBR Application Tool (EAF)**

Welcome

The International Union for the Protection of New Varieties of Plants (UPOV) is an intergovernmental organization...

UPOV was established by the International Convention for the Protection of New Varieties of Plants. The Convention was adopted in Paris in 1961 and it was revised in 1972, 1978 and 1991.

WEBSITE & SOCIAL MEDIA

The screenshot shows the UPOV website page for the PBR Application Tool (EAF). The page includes a sidebar with navigation links, a main content area with a list of features, and a table showing UPOV members and crops currently covered by EAF.

UPOV

ABOUT UPOV | MEMBERSHIP | UPOV SYSTEM | PVP DATA & STATISTICS | MEETINGS | NEWS

UPOV EAF

- Home
- Go to EAF
- How to Access EAF
- Terms of Use
- Testimonials
- Tutorials
- User Guides
- PVP-XML
- Payment of fees
- Web Services
- Contact Us

HOME > UPOV EAF >

PBR Application Tool (EAF)

What are the features of the EAF? [\[more details\]](#)

- As online PBR application tool that can be used to provide application data to all participating PVP Offices in the required format (hard copy, e-mail, system to system communication)
- Application forms can be displayed in a range of languages (note: answers must be provided in an acceptable language for the PVP Office)
- Information can be automatically re-used in subsequent application data
- Different user roles can be specified (e.g. drafter, signatory, translator, agent, procedural representative)
- Controlled access to all PBR application data
- Secure and confidential

UPOV members and crops currently covered by EAF

AUTHORITY	APPLE FRUIT VARIETIES	LETTUCE	POTATO	ROSE	SOYABEAN
Argentina	✓		✓	✓	✓
Australia	✓	✓	✓	✓	✓
Chile	✓	✓	✓	✓	✓
China		✓		✓	
Colombia				✓	
France	✓	✓	✓	✓	✓
Kenya	✓	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓	✓
New Zealand	✓	✓	✓	✓	✓

WEBSITE & SOCIAL MEDIA

Breeder Testimony

Deutsch Español

UPOV

Contact us Site map

ABOUT UPOV MEMBERSHIP UPOV SYSTEM PVP DATA & STATISTICS MEETINGS NEWS

UPOV EAF

- Home
- Go to EAF
- How to Access EAF
- Terms of Use
- Testimonials**
- Tutorials
- User Guides
- PVP-XML

HOME » UPOV EAF »

Testimonials

Breeder Testimony

VIDEOS

Breeder testimony

Astrid Schenkefeld
Special Variety Production Protection
PVP-XML Member

UPOV

WEBSITE & SOCIAL MEDIA

Tutorials

Deutsch Español Français

UPOV

Contact us Site map YouTube

ABOUT UPOV MEMBERSHIP UPOV SYSTEM PVP DATA & STATISTICS MEETINGS NEWS

UPOV EAF

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- Go to EAF
- How to Access EAF
- Terms of Use
- Testimonials
- Tutorials**
- User Guides
- PVP-XML
- Payment of fees
- Web Services
- Contact Us

HOME » UPOV EAF »

Tutorials

Start an application

VIDEOS

Start New Application

Copy an application
(Applying for the same variety with another authority)

Copy Application

WEBSITE &
SOCIAL MEDIA

Tutorials

UPOV Electronic Application Form

Start a new application Copy application Bulk Upload User Role Management Edit User profile

International Reference Number	Created On	Modified On	Date of Submission	Crop	Proposed Variety Description	Breeder's Variety Reference	Submitter's ID	Variety Reference	Authority	Status	Applicant Payment Status	Actions
NA	NA	19/05/2017	NA	Lettuce		123	123		EUROPEAN UNION	Pending	NA	View Edit
XIL_3020160 002701	30/05/2016	23/11/2016	23/11/2016	Rose	PROPOSED NAME ROSE AUSTRALIA				AUSTRALIA	Submitted	Pending Payment Confirmation	View
XIL_999999 999990	NA	NA	NA	Lettuce					BRAZIL	Submitted	Pending Payment Confirmation	View
XIL_3020179 8695008	NA	33/05/2017	NA	Rose	TEST RELEASE 1.1 HM AR Rose			TEST SYNGENTA	ARGENTINA	Pending	NA	View Edit Delete
XIL_999999 999991	NA	NA	19/05/2016	Lettuce	VARIETY_TEST				AUSTRALIA	Submitted	Pending Payment Confirmation	View
XIL_999999 999992	NA	19/05/2017	19/05/2017	Peas	Proposed den	Peas FR PC	Peas FR PC		FRANCE	Pending	NA	View
XIL_3020160 001054	NA	NA	NA	Lettuce	TEST VARIETY RZ				AUSTRALIA	Submitted	Received	View
XIL_3020160 001142	NA	NA	09/06/2016	Lettuce	MY DENOM CL				CHILE	Submitted	Pending Payment Confirmation	View
XIL_3020160 001703	NA	NA	09/06/2016	Lettuce	VARIETY_TEST_3D				NORWAY	Submitted	Received	View
XIL_3020160 001703	NA	NA	09/06/2016	Rose	DENOMINATION FOR CHILE				CHILE	Submitted	Received	View

Pour lancer une nouvelle demande, veuillez cliquer sur "nouvelle dema

UPOV

Subtitles/CC Options

- Off
- Arabic
- Chinese (China)
- English
- French
- German
- Japanese
- Korean
- Spanish
- Auto-translate

YouTube

WEBSITE &
SOCIAL MEDIA

EAF showcase page LinkedIn

UPOV's PBR Application Tool (EAF)

International Office - 30 followers
http://www.upov.int/epaf.html
1 follower in your network
Manage page

About us

UPOV's PBR Application Tool (EAF) is an online PBR application tool that can be used to provide appl participating PVP Offices, in the required format (hard copy, e-mail, system to system communication)

Who benefits?

- breeders
- breeders (more conveniently and efficient (paper))
- many applications
- many application forms in a choice of languages (breeders must be provided in an acceptable to PVP Office)
- reuse data in subsequent applications (in multiple countries)

Plant Variety Protection Offices

- receive application data in an acceptable format in an appropriate language
- offer breeders an online tool
- ensure the protection to receive more applications

Recent updates

UPOV's PBR Application Tool (EAF)
3 updates - 30 followers

UPOV's PBR Application Tool (EAF)
https://trello.com/j38f4u1h

Follow who stay up to date with UPOV's PBR Application Tool (EAF)

To start a new application, you need to click on "New"

UPOV's PBR Application Tool (EAF)
https://trello.com/j38f4u1h

A series of Demos have been created (in English) and subtitled in French, Spanish, German, Chinese, Korean and Japanese and Arabic.

UPOV's PBR Application Tool (EAF)
Demo

Webinar EAF Demo

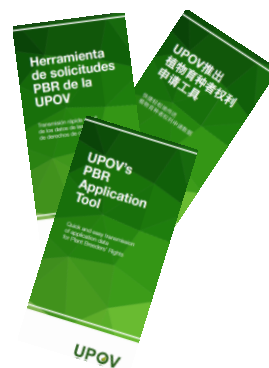
UPOV- PBR Application Tool (Electronic Application Form (EAF))

UPOV Office
July 20, 2017

UPOV
UPOV's PBR Application Tool (EAF) July's webinar

PROMOTIONAL
MATERIALS

- Posters / roll-up banners
- Flyers
- Press releases
- Website & social media



UPOV

TRAINING

On-site and On-line Sessions (Webinars)

- On-site training sessions (Geneva)
- On-line training sessions
 - via webex/webinars for breeders/applicants

UPOV



PROMOTIONAL
ACTIVITIES

On-site Promotion

- ISF Congress
- CIOPORA AGM
- AOHE
- ESA
- SAA
- AFSTA
- ASTA



UPOV

PROMOTIONAL
ACTIVITIES



...to help us
promote
PRISMA

PVP Offices

- add a link to your website
- Inform your applicants about PRISMA
- Follow us and share updates on **LinkedIn**
- Include the PRISMA module in your PVP Office training programs

Breeders

- Inform your colleagues or members about PRISMA
- Follow us and share updates on your social media networks

UPOV

PROMOTIONAL
ACTIVITIES

FRANCE

2. Le dépôt papier ou numérique


- **au siège de l'INOV**
Tout demandeur peut déposer sa demande de protection directement au secrétariat de l'INOV aux heures d'ouverture (voir plus bas).
- **par voie postale**
Tout demandeur est invité à envoyer sa demande de protection en lettre recommandée avec accusé de réception au siège de l'INOV (voir plus bas).
- ***NEW !* Le dépôt par messagerie électronique auprès de l'INOV**
Les formulaires mentionnés ci-dessus peuvent être, une fois remplis, signés, datés et numérisés, envoyés par messagerie électronique au [secrétariat de l'INOV](#).
- **via l'UPOV**
Depuis janvier 2017, tout déposant peut procéder au dépôt de sa demande via un dépôt semi-électronique en passant par [la plateforme de l'UPOV](#). Ce dépôt est opérationnel pour les espèces suivantes : rosier – pommier – pomme de terre – soja – laitue.

<https://www.geves.fr/catalogue-protection/>

UPOV

PROMOTIONAL
ACTIVITIES

TURKEY



The screenshot shows the website of the Ministry of Agriculture, Republic of Turkey. The main navigation bar includes 'ANA SAYFA', 'BAKANLIK', 'KONULAR', 'MEVZUAT', 'VERILER', 'BASIN ODASI', and 'ILETISIM'. The 'KONULAR' menu is expanded, showing 'Bitkisel Üretim' and 'Islahçı Hakları'. Under 'Islahçı Hakları', the 'UPOV EAF Application System' is highlighted, with a red arrow pointing to the 'Apply Online' link.

<http://www.tarim.gov.tr/Konular/Bitkisel-Uretim/Tohumculuk/Islahci-Haklari>

UPOV

PROMOTIONAL
ACTIVITIES

NETHERLANDS

<https://www.raadvoorplantenrassen.nl/nl/online-aanvragen/>

Aanvragen voor kwekersrecht in één van de UPOV landen

De UPOV heeft vanaf 16 januari ook een online module beschikbaar. Via deze module vraagt u online kwekersrecht aan in alle UPOV-landen. Aanvragen kunt u indienen in de gewassen sla, appel, sojaboon, roos en aardappel. Informatie over de UPOV-module kunt u vinden via:



[ga naar online aanmelden](#)



Als u aanvraagt voor Nederlands kwekersrecht wordt uw aanvraag door de UPOV doorgestuurd. Uw aanvraag wordt door de Raad voor plantenrassen in behandeling genomen.

Naktuinbouw vergoedt gebruikerskosten UPOV module

Als u uw aanvraag online indient via de UPOV module worden gebruikerskosten in rekening gebracht. Voor iedere aanvraag waarvoor tevens een aanvraag voor Nederlands kwekersrecht en/of toelating wordt ingediend, vergoedt Naktuinbouw in 2017 de gebruikerskosten van € 150.

Aanvragen voor toelating in Nederland via UPOV module

Maakt u gebruik van de UPOV module en wilt u tevens voor toelating in Nederland aanmelden? De UPOV module is uitsluitend ingericht op het aanvragen van kwekersrecht. Als u naast Nederlands kwekersrecht ook toelating in Nederland wilt aanvragen vul dan dit [formulier](#) in en stuur dat svp aan plantenrassen@naktuinbouw.nl

PROMOTIONAL
ACTIVITIES

REPUBLIC OF MOLDOVA

The screenshot shows the website of AGEPI (Agenția Națională de Protecție a Drepturilor de Proprietate Industrială) in Moldova. The main content is a news article titled "Republica Moldova participă în Proiectul UPOV privind formularul de cerere electronic." The article text is in Romanian and discusses the implementation of the UPOV system in Moldova, including the introduction of an electronic application form for plant breeders' rights. At the bottom of the article, there is a red arrow pointing to a link that says "Aici se poate accesa formularul de cerere electronică".

<http://www.agepi.gov.md/ro/news/republica-moldova-particip%C4%83-%C3%AEn-proiectul-upov-privind-formularul-de-cerere-electronic>

CONTACT US!

prisma@upov.int

UPOV

**UPOV's
PBR
Application
Tool**

Quick and easy transmission
of application data
for Plant Breeders' Rights

www.upov.int

UPOV

UPOV

Preview

Developments in UPOV:

- General
 - membership & statistics
 - people & publications
 - PBR application tool (EAF)
 - **impact of UPOV membership**
 - UN SDGs & plant genetic resources
- Biochemical and molecular techniques

UPOV

ABOUT UPOV

- Mission Statement
- Overview
- Organigram
- Office of UPOV
- Officers
- UPOV Convention
- Benefits of UPOV System
- Key Issues
- FAQs
- Publications

HOME

VIDEOS

UPOV

HFFA Research GmbH

The socio-economic benefits of UPOV membership in Viet Nam:

An ex-post assessment on plant breeding and agricultural productivity after ten years

Corresponding author: Steffen Noleppa

HFFA Research Paper 03/2017

UPOV

UPOV enabled a public
to ensure a supply of high
onion seed to farmers
ptions: [FR](#) [DE](#)

[Ashiro Rindo Story](#)

UPOV

Socio-economic benefits of UPOV membership in Viet Nam: An ex-post assessment on plant breeding and

UPOV Report on the Impact of Plant Variety Protection

UPOV Trilogy Publication
[Executive Summary](#)

UPOV

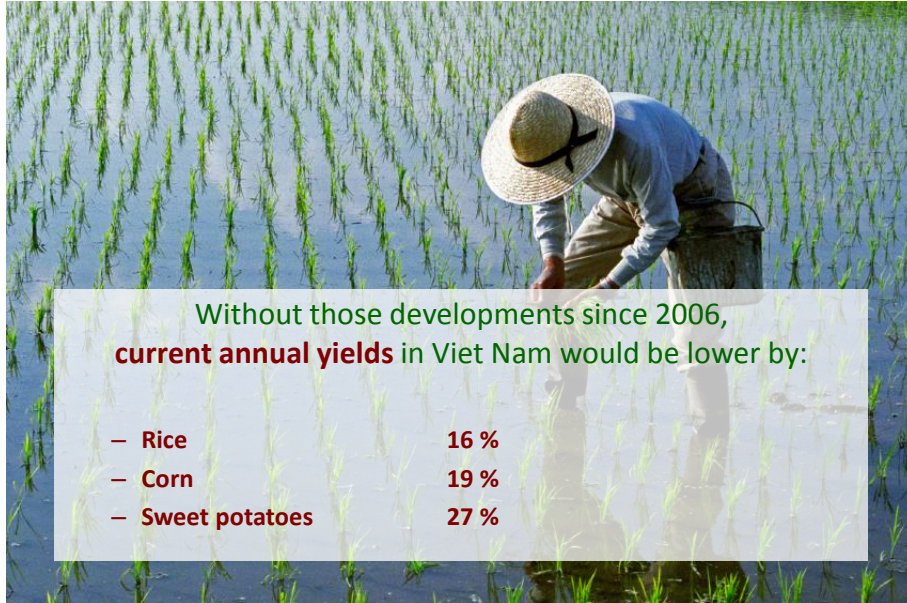
STUDY in VIET NAM*

Annual land productivity developments since Viet Nam joined UPOV in 2006 in Rice, Corn (maize) and Sweet Potatoes

- **1995-2005:** increase in yield mainly through increased level of inputs – no detectable increase due to plant breeding
- **2006-2016:** annual land productivity increase due to plant breeding
 - **Rice** 1.7 %
 - **Corn** 2.1 %
 - **Sweet potatoes** 3.1 %

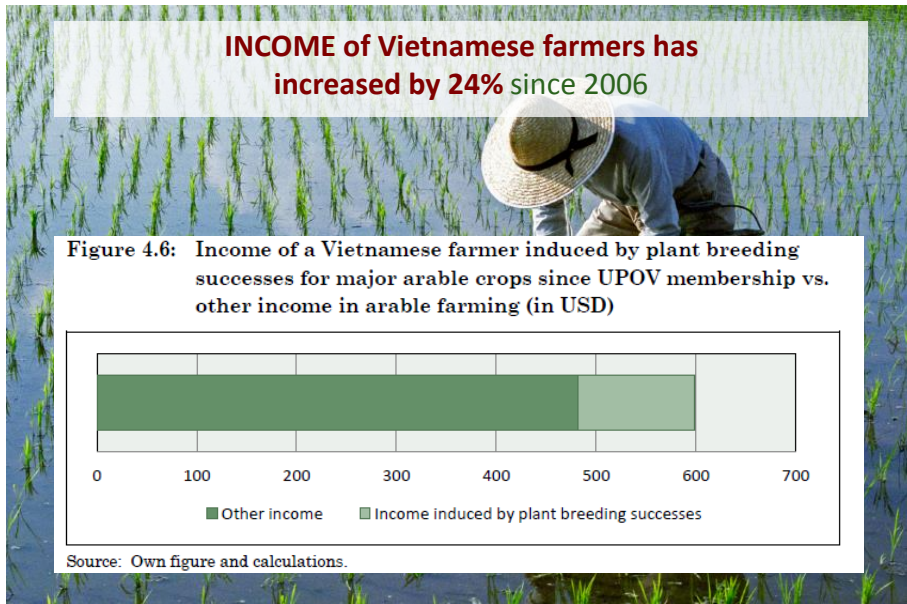
* "The socio-economic benefits of UPOV membership in Viet Nam; An ex post assessment on plant breeding and agricultural productivity after 10 years" (Corresponding author: Steffen Noleppa) by HFFA Research GmbH

STUDY in VIET NAM



69

STUDY in VIET NAM



70

Preview

Developments in UPOV:

- General
 - membership & statistics
 - people & publications
 - PBR application tool (EAF)
 - impact of UPOV membership
 - UN SDGs & plant genetic resources
- Biochemical and molecular techniques

UPOV

71

UPOV Search

Question: **How does the UPOV system contribute to the United Nations Sustainable Development Goals (SDGs)?**

ABOUT The vision of the 2030 Agenda for Sustainable Development (see <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>) includes a world where "food is sufficient, safe, affordable and nutritious", there is "sustained and inclusive economic growth, social development, environmental protection and the eradication of poverty and hunger" and one in "which development and the application of technology are climate-sensitive, respect biodiversity and are resilient". The mission of UPOV is to provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society. The benefits that the UPOV system provides to society will be an important component in realizing the vision of the 2030 Agenda for Sustainable Development.

UPOV's mission is to provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society. In particular, new varieties of plants are an important means of responding to the challenges of a growing and increasingly urbanized population, climate change, parallel demands for food and energy production and evolving human needs.

The tremendous progress in agricultural productivity in various parts of the world is largely based on improved varieties, together with improved farming practices, and future food security depend on them. There is also a need to further increase food production in the years leading up to 2030. World population is anticipated to grow until 2050, and urbanization will continue. Therefore, the need for increased productivity in sustainable agricultural production will continue for the foreseeable future. New varieties of plants with features such as improved yield, resistance to plant pests and diseases, salt and drought tolerance, or better adaptation to climatic stress are a key element in increasing productivity and product quality in agriculture, horticulture and forestry, whilst minimizing the pressure on the natural environment. Due to the continuous evolution of new pests and diseases as well as changes in climatic conditions and users' needs, there is a continuous demand by farmers/growers of new plant varieties and development by breeders of such new plant varieties.

W Diversity of breeders and breeding is needed to develop new varieties that are able to respond to such a wide range of challenges. The UPOV system of plant variety protection provides an effective mechanism for breeders in both the public and private sectors, and facilitates public-private partnerships. It is a system that is equally relevant for individual breeders, SMEs and larger breeding institutes/enterprises. Plant variety protection supports long-term investment in breeding and provides a framework for investment in the delivery of seed and other propagating material of varieties suited to farmers' needs.

U Aim of encouraging the development of new varieties of plants, for the benefit of society.

▲ Top of page

Contact us Site map YouTube

Stakeholder features

- Breeders
- Farmers and Growers
- Policy makers
- General Public

PBR Application Tool (EAF)

- GENIE Database
- UPOV Lex
- Plant Variety Database (PLUTO)

Quick Links

- Introduction to UPOV
- Benefits of UPOV
- UPOV Collection
- PBR Application Tool (EAF)
- Best Guidelines
- Distance Learning Courses
- FAQs**

The screenshot shows the UPOV website with a central announcement for a symposium. The symposium title is "SYMPOSIUM ON POSSIBLE INTERRELATIONS BETWEEN THE INTERNATIONAL TREATY ON PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE (ITPGRFA) AND THE INTERNATIONAL CONVENTION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS (UPOV CONVENTION)". The word "PROCEEDINGS" is prominently displayed below the title. On the right side, a navigation menu is visible, with "Seminars & Symposia" highlighted in a green box. Other menu items include "Holder features", "PBR Application Tool (EAF)", "GENIE Database", "UPOV Lex", and "Plant Variety Database (PLUTO)". The "Link Links" section includes "Introduction to UPOV", "Benefits of UPOV", "UPOV Collection", "PBR Application Tool (EAF)", "Test Guidelines", and "Seminars & Symposia".

Interrelations with ITPGRFA

October 2017

The Council agreed the following concerning interrelations with the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA):

- (i) to **review the FAQ** on the interrelations between the UPOV Convention and the ITPGRFA; and
- (ii) **exchange of experience and information** on the implementation of the UPOV Convention and the ITPGRFA, **with the involvement of stakeholders.**

As a next step, the Consultative Committee would consider the need for a revision of the current guidance in the "Explanatory Notes on Exceptions to the Breeder's Right under the 1991 Act of the UPOV Convention" (document UPOV/EXN/EXC/1).

The screenshot shows the UPOV website's 'Benefits of the UPOV System' page. On the left is a navigation menu with items like 'Mission Statement', 'Overview', 'Organigram', 'Office of UPOV', 'Officers', 'UPOV Convention', 'Benefits of UPOV System' (highlighted), 'Key Issues', 'FAQs', and 'Publications'. The main content area has a breadcrumb trail 'HOME » ABOUT UPOV »', a title 'Benefits of the UPOV System', and a 'VIDEOS' section. Two video thumbnails are shown: 'Using the UPOV...' featuring a field of purple flowers, and 'PVP in Ecuador' featuring a blackberry with the text 'MUYU'. Below the thumbnails are short descriptions of each video. The UPOV logo is at the bottom left, and the number '75' is at the bottom right.

Using the UPOV System to benefit custodians of native wild germplasm in Argentina



*“The royalties derived from commercialization of the variety are shared between the breeder and **the provinces that contributed the native plant genetic resource.**”*

Using the UPOV System to benefit custodians of native wild germplasm in Argentina



*“A large part of the profits, basically, **50 per cent**, that are generated from the commercialization **return to those provinces.**”*

UPOV

Using the UPOV System to benefit custodians of native wild germplasm in Argentina



*“**the erosion/loss from their natural habitat is reduced** and this is therefore our own contribution, working together with INTA, for the conservation of our native natural resources.”*

the plant variety protection system, using property titles, under the seed law, which conforms to the UPOV Convention,

and systems for access to plant genetic resources

UPOV

79

Preview

Developments in UPOV:

- General
 - Membership of UPOV
 - PVP statistics
 - UPOV officers
 - UPOV PBR application tools (EAF)
 - Revision of EXN/ INF documents
 - Other topics
- Concerning Biochemical and Molecular Techniques

STATUS OF UPOV DOCUMENTS CONCERNING MOLECULAR TECHNIQUES

Document reference	Title
UPOV/INF/17/1	Guidelines for DNA Profiling: Molecular Marker Selection and Database Construction (“BMT Guidelines”) (2010)

Document reference	Title
TGP/15	Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)
UPOV/INF/18/1	Possible Use of Molecular Markers in the Examination of Distinctness, Uniformity and Stability (2011)

UPOV/INF/17/1 (**INF**ormation document)

“Guidelines for DNA Profiling: Molecular Marker Selection and Database Construction (“BMT Guidelines”)”

The purpose of this document (BMT Guidelines) is to provide guidance for developing harmonized methodologies with the aim of generating high quality molecular data for a range of applications. The BMT Guidelines are also intended to address the construction of databases containing molecular profiles of plant varieties [...]

UPOV

UPOV/INF/18/1 (INFormation document)



“Possible Use of Molecular Markers in the Examination of Distinctness, Uniformity and Stability”

The purpose of this document is to provide guidance on the possible use of biochemical and molecular markers in the examination of Distinctness, Uniformity and Stability (DUS). [...]

UPOV

UPOV/INF/18 POSSIBLE APPLICATION MODELS

MODELS WITH A POSITIVE ASSESSMENT

- Characteristic-specific molecular markers 
- Combining phenotypic and molecular distances in the management of variety collections
- Calibrated molecular distances in the management of variety collections 

MODELS WITHOUT A POSITIVE ASSESSMENT

- Use of molecular marker characteristics

UPOV

TGP/15/1 (Technical Guidelines Protocol)

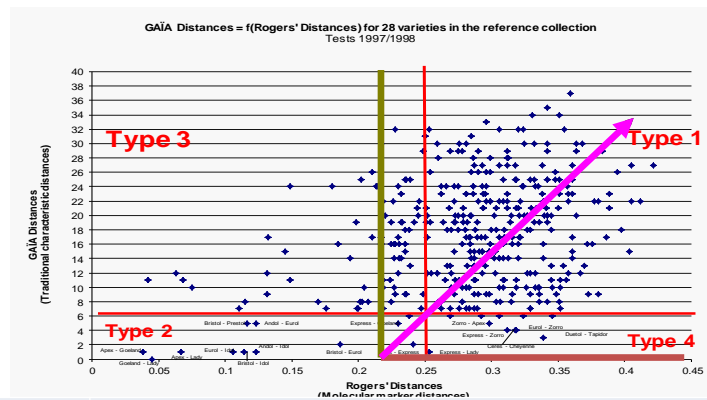
“Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)”

The purpose of this document is to provide guidance on the use of biochemical and molecular markers in the examination of Distinctness, Uniformity and Stability (DUS) on the basis of the models in document UPOV/INF/18 that have received a positive assessment and for which accepted examples have been provided.

→ Adopted by the Council of UPOV in October, 2013.



Calibrated molecular distances in the management of variety collections



	Distinctness plus (Traditional characteristics)	Distinctness plus (Molecular markers)
Type 1	Yes	Yes
Type 2	No	No
Type 3	Yes	No
Type 4	No	Yes





Model 1: Characteristic-specific molecular markers

Example: gene specific marker for herbicide tolerance introduced by genetic modification

On the basis that:

[...]

- there is verification of the reliability of the link between the marker and the characteristic;

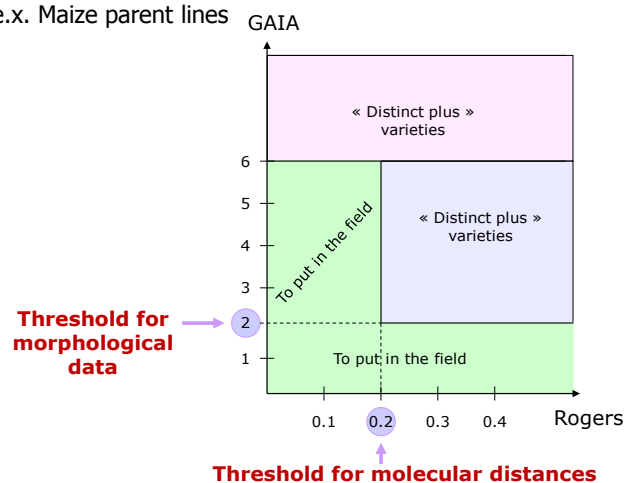
- different markers for the same characteristic are different methods for examining the same characteristic;

[...]

UPOV

Model 2: Combining phenotypic and molecular distances in the management of variety collections

e.x. Maize parent lines



Combining phenotypic and molecular distances in the management of variety collections

“A combination of phenotypic differences and molecular distances can be used to identify within the variety collection, those varieties which need to be compared with candidate varieties in order to improve the selection of “Distinct plus” varieties, on the following basis:

- (a) there is reliable information that the molecular distances are sufficiently related to phenotypic differences, such that
- (b) the method selects varieties in the variety collection which are similar to the candidate varieties; and
- (c) the method does not create an increased risk of not selecting a variety in the variety collection which needs to be compared to the candidate varieties in the field.

UPOV

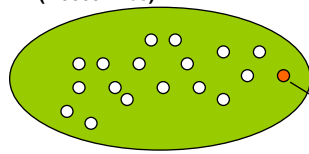
89

MANAGEMENT OF THE REFERENCE COLLECTION

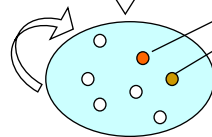
DISTINCTNESS PROCEDURE

60 SSR + GAIA distance

Reference collection
(# 3000 lines)



Comparison



New lines (#350)

Field trials for close lines



9

90

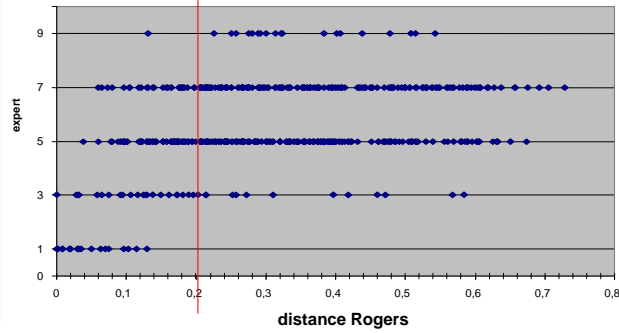
EVALUATION OF THE LEVEL OF CORRELATION BETWEEN MOLECULAR AND MORPHOLOGICAL DATA

EXPERTS

Scale of similarity:

1. the two varieties are similar or very close;
3. the two varieties are distinct but close;
5. the comparison was useful, but the varieties are clearly distinct;
7. the comparison should have been avoided because the varieties are very different;
9. the comparison should have been avoided because the varieties are totally different;

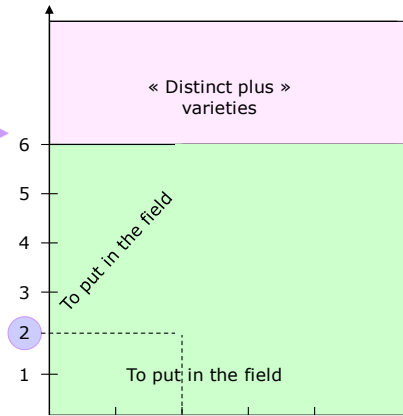
Experts / Rogers on 504 pairs in 2003



Each data point corresponds to the lowest note determined by the panel of experts and the Roger's distance, for a given pair

GAIA

Threshold for morphological data



VARIETIES COVERED

In addition to the protected variety itself...

VARIETIES:

- not clearly distinguishable from the protected variety



- recalling that a variety is not protectable unless it is clearly distinguishable from all varieties whose existence is a matter of common knowledge (VCKs),
- i.e. VCKs cannot be retrospectively covered [...]

93

VARIETIES COVERED

In addition to the protected variety itself...

VARIETIES:

- not clearly distinguishable from the protected variety



- whose production requires the repeated use of the protected variety
e.g. hybrids
- which are essentially derived from the protected variety ...

94

ESSENTIALLY DERIVED VARIETIES

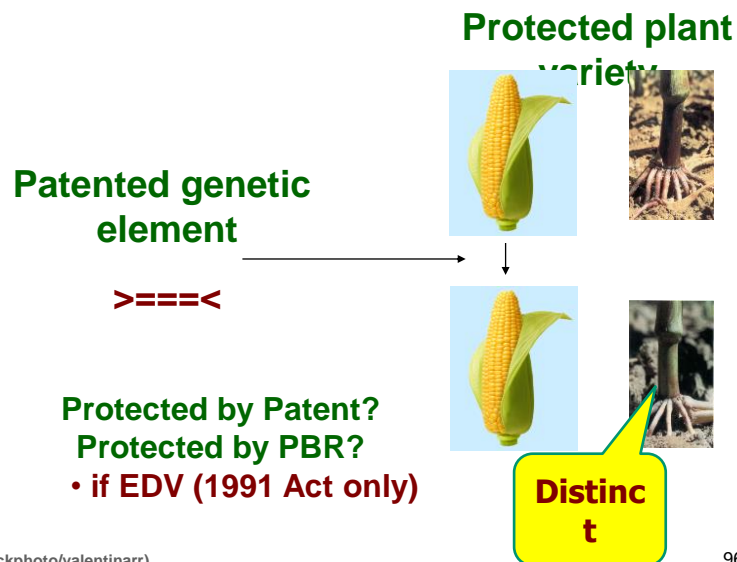
PURPOSE:

to ensure sustainable plant breeding development by:

- providing effective protection for the breeder and
- encouraging cooperation between breeders and developers of new technologies such as genetic modification

95

ESSENTIALLY DERIVED VARIETIES



96

ESSENTIALLY DERIVED VARIETIES

...a variety shall be deemed to be **essentially derived from** another variety ("the **initial variety**") when

(i) it is **predominantly derived from the initial variety**, or from a variety that is itself predominantly derived from the initial variety, **while retaining the expression of the essential characteristics** that result from the genotype or combination of genotypes of the initial variety,

(ii) it is **clearly distinguishable** from the initial variety and

(iii) except for the differences which result from the act of derivation, it **conforms to the initial variety in the expression of the essential characteristics** that result from the genotype or combination of genotypes of the initial variety.

97

ESSENTIALLY DERIVED VARIETY?



(Photo: istockphoto/valentinarr)

98

UPOV/EXN/EDV/2

Predominantly derived from the initial variety
(Article 14(5)(b)(i))

- A derived variety could not, in practice, retain the expression of the essential characteristics of the variety from which it is derived unless it is **almost entirely derived from that initial variety**



(Photo: istockphoto/valentinarr)

99



UPOV/EXN/EDV/2

Predominantly derived from the initial variety

The following might be considered in relation to the notion of



“essential characteristics”:

(i) essential characteristics [...] means **heritable traits [...] that contribute to the principal features, performance or value of the variety;**

(ii) characteristics that are **important from the perspective of the producer, seller, supplier, buyer, recipient, or user;**



(Photo: istockphoto/valentinarr)

100



UPOV/EXN/EDV/2



(iii) characteristics that are **essential for the variety as a whole, including, for example, morphological, physiological, agronomic, industrial and biochemical characteristics**



(Photo: istockphoto/valentinarr)

101



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(iv) essential characteristics **may or may not be phenotypic characteristics used for the examination of distinctness, uniformity and stability (DUS);**



(Photo: istockphoto/valentinarr)

102

FAQs

UPOV

ABOUT UPOV | MEMBERSHIP | UPOV SYSTEM | PVP DATA & STATISTICS | MEETINGS | NEWS

New member: Bosnia and Herzegovina

Stakeholder features

- Dreadna
- Farmers and Growers
- Policy makers
- General Public

PBR Application Tool (EAT)

GENE Databases

UPOV IIR

Plant Variety Database (PLUTO)

Welcome

The International Union for the Protection of New Varieties of Plants (UPOV) is an intergovernmental organization with headquarters in Geneva, Switzerland.

UPOV was established by the International Convention for the Protection of New Varieties of Plants. The Convention was adopted in Paris in 1961 and it was revised in 1972, 1978 and 1991.

UPOV's mission is to provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

Quick Links

- Introduction to UPOV
- Benefits of UPOV
- UPOV Collection
- PBR Application Tool (EAT)
- UPOV GUIDELINES
- Distance Learning Courses
- Seminars & Symposia
- FAQs**

103

Question: Is it possible to obtain protection of a variety on the basis of its DNA-profile?

For a variety to be protected, it needs to be clearly distinguishable from all existing varieties on the basis of characteristics that are physically expressed, e.g. plant height, time of flowering, fruit color, disease resistance etc. The DNA-profile is not the basis for obtaining the protection of a variety, although this information may be used as supporting information.

A more detailed explanation is provided in the FAQ 'Does UPOV allow molecular techniques (DNA profiles) in the examination of Distinctness, Uniformity and Stability ("DUS")?'

See also:

"What are the requirements for protecting a new plant variety?"

Other Developments to be Reported

- Joint OECD/UPOV/ISTA/AOSA Workshop:
item 6 (BMT/16/3)
- Practical Workshops on “DNA Techniques
and Variety Identification” :
item 6 (BMT/16/3)
- Variety Description Databases containing
molecular data:
item 7 (BMT/16/5)

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105

THANK YOU

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[End of Annex and of document]