

**Working Group on Biochemical and Molecular Techniques
and DNA-Profiling in Particular****BMT/17/4****Seventeenth Session
Montevideo, Uruguay, September 10 to 13, 2018****Original:** English**Date:** September 5, 2018**PREPARATORY INFORMATION***Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance*

The Annex to this document contains a copy of a presentation “Preparatory Information” to be made by the Office of the Union at the seventeenth 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)
Seventeenth Session**

Preparatory Information

Office of the Union - UPOV

Montevideo, Uruguay, September 10 -13, 2018



International Union for the Protection of New Varieties of Plants

Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

Preview

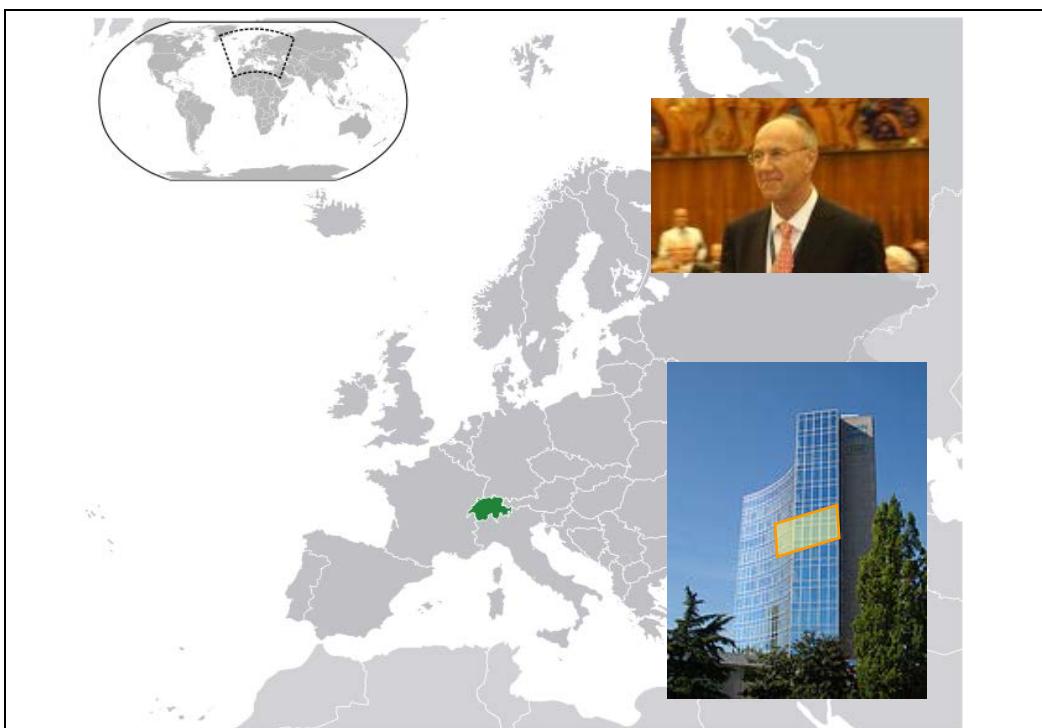
1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

UPOV: INDEPENDENT INTERGOVERNMENTAL ORGANIZATION

The International Convention for the Protection of New Varieties of Plants
established in 1961

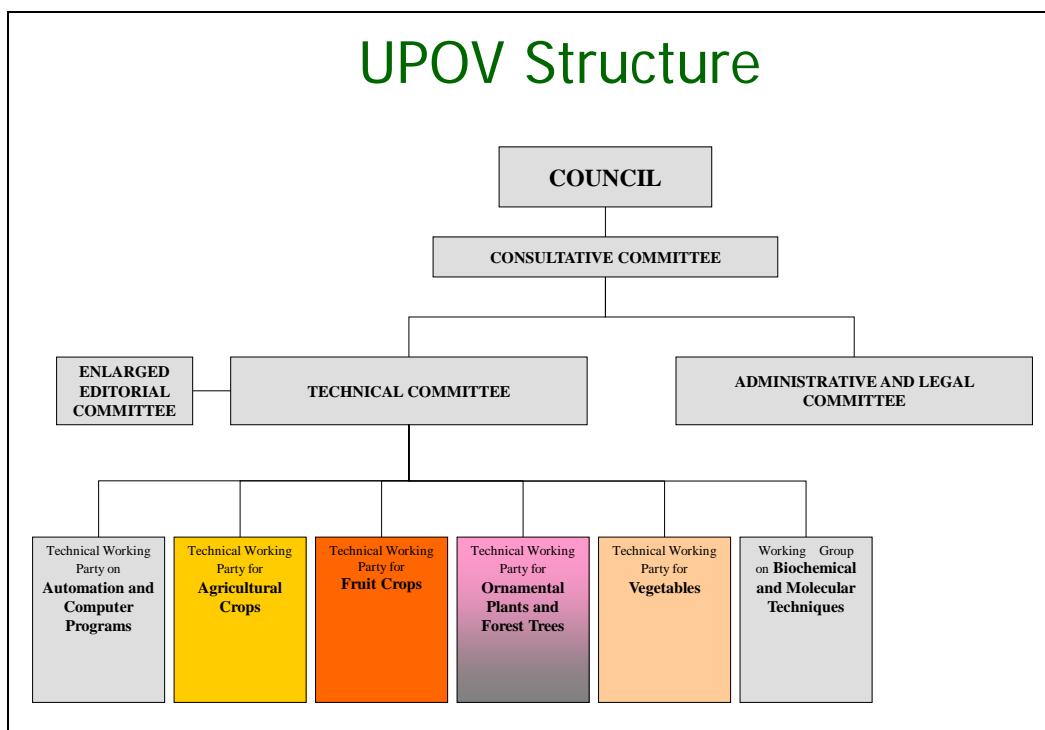
The International Union for the Protection of New Varieties of Plants

Union internationale pour la protection des obtentions végétales



Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool



Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWPs)
- 3. Guidance on DUS examination**
4. Role of the TWPs and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

THE CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Criteria to be satisfied

- NOVELTY
- **DISTINCTNESS**
- **UNIFORMITY**
- **STABILITY**



"DUS"

THE CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Other conditions

- VARIETY DENOMINATION
- FORMALITIES
- PAYMENT OF FEES

NO OTHER CONDITIONS!

Guidance for DUS Examination

facilitates:

BEST PRACTICE (based on experience)

- => good decisions
- => good definition of the object of protection
(strong protection)
- => efficiency in method of examination (learn from the best)

HARMONIZATION

- => efficiency
 - mutual acceptance of DUS reports
(minimize cost of examination for individual authorities)
 - mutual recognition of variety descriptions
(all parties speak the same "language")
 - simple and cheap system for applicants
(minimize cost for breeders)

UPOV provides guidance by:

- The "General Introduction" (TG/1/3)
 - General technical principles
 - Organization of DUS Testing
 - Associated "TGP" Documents
(e.g. statistical methods)

= version 3

"General Introduction to the Examination Of Distinctness,
Uniformity And Stability and the Development of Harmonized
Descriptions of New Varieties of Plants"

TG/1/3 General Introduction	
"Associated" TGP Documents	
Ref.	Title
TG/00	List of TGP Documents and Latest Issue Dates
TGP/1	General Introduction With Explanations
TGP/2	List of Test Guidelines Adopted by UPOV
TGP/3	Varieties of Common Knowledge
TGP/4	Constitution and Maintenance of Variety Collections
TGP/5	Experience and Cooperation in DUS testing
TGP/6	Arrangements for DUS testing
TGP/7	Development of Test Guidelines
TGP/8	Trial Design and Techniques Used in the Examination of DUS
TGP/9	Examining Distinctness
TGP/10	Examining Uniformity
TGP/11	Examining Stability
TGP/12	Special Characteristics
TGP/13	Guidance for New Types and Species
TGP/14	Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents
TGP/15	Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)

"CHARACTERISTICS"

- may have direct commercial relevance
 - Flower color (ornamental)
 - Fruit color
- but commercial relevance NOT required
 - Leaf shape

Selection of Characteristics

The basic requirements that a characteristic should fulfill before it is used for DUS testing or producing a variety description are that its expression (TG/1/3: Section 4.2.1) :

- (a) **results from a given genotype** or combination of genotypes;
- (b) is sufficiently **consistent and repeatable** in a **particular environment**;
- (c) exhibits sufficient **variation between varieties** to be able to establish distinctness;
- (d) is capable of **precise definition and recognition**;
- (e) allows **uniformity requirements** to be fulfilled;
- (f) allows **stability requirements** to be fulfilled, meaning that it produces consistent and repeatable results after repeated propagation or, where appropriate, at the end of each cycle of propagation.

Selection of Characteristics

- Yield ???
- Straw strength ???

Etc.

Selection of Characteristics

Criteria	Fruit: color	Leaf: shape	Yield
(a) results from a given genotype or combination of genotypes	Yes	Yes	
(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	
(c) exhibits sufficient variation between varieties to be able to establish distinctness	Yes	Yes	
(d) is capable of precise definition and recognition	Yes	Yes	
(e) allows uniformity requirements to be fulfilled	Yes	Yes	
(f) allows stability requirements to be fulfilled	Yes	Yes	
Commercial value	Yes	No	
ACCEPTABILITY	Yes	Yes	

Selection of Characteristics

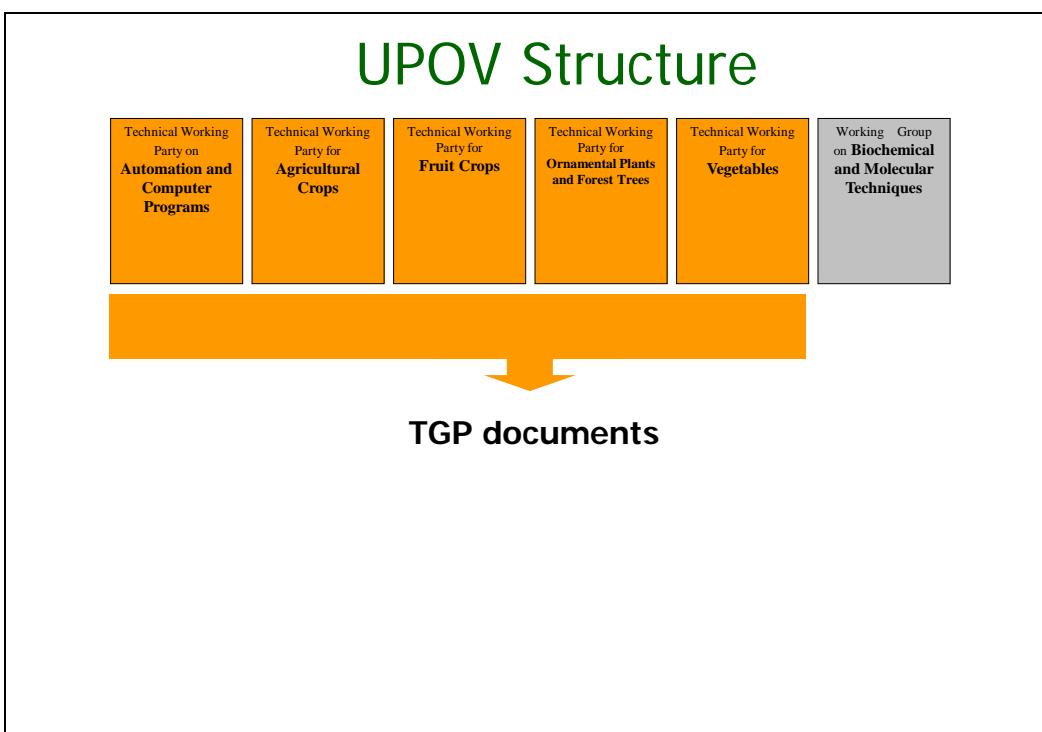
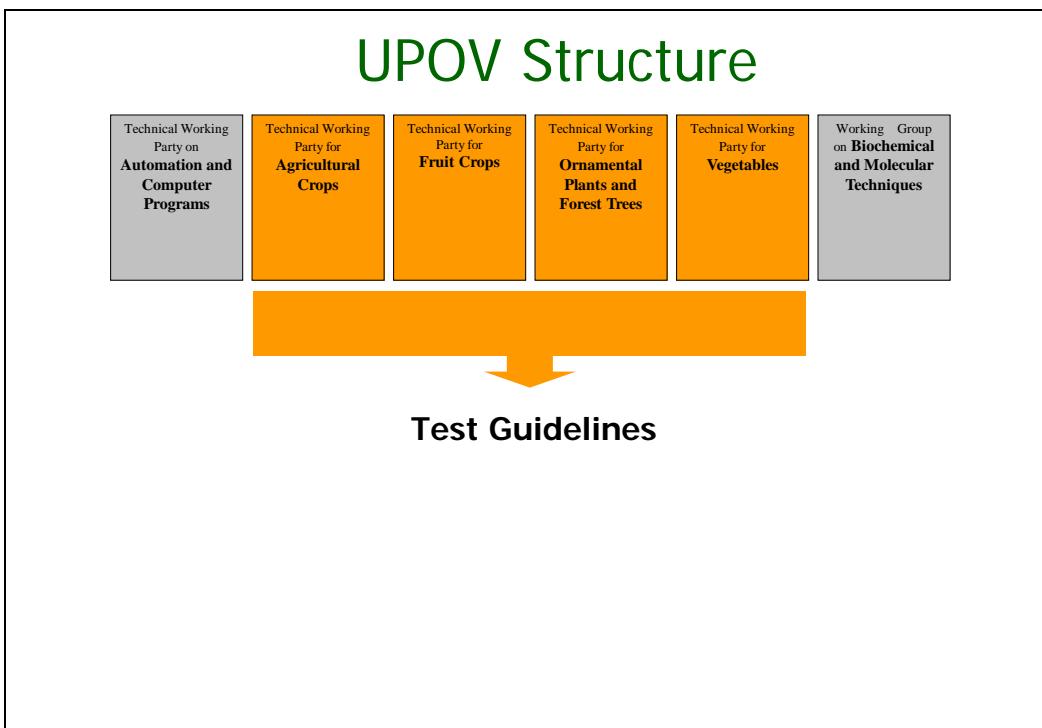
Criteria	Fruit: color	Leaf: shape	Yield
(a) results from a given genotype or combination of genotypes	Yes	Yes	Yes
(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	(No)
(c) exhibits sufficient variation between varieties to be able to establish distinctness	Yes	Yes	???
(d) is capable of precise definition and recognition	Yes	Yes	(No)
(e) allows uniformity requirements to be fulfilled	Yes	Yes	???
(f) allows stability requirements to be fulfilled	Yes	Yes	???
Commercial value	Yes	No	Yes
ACCEPTABILITY	Yes	Yes	No

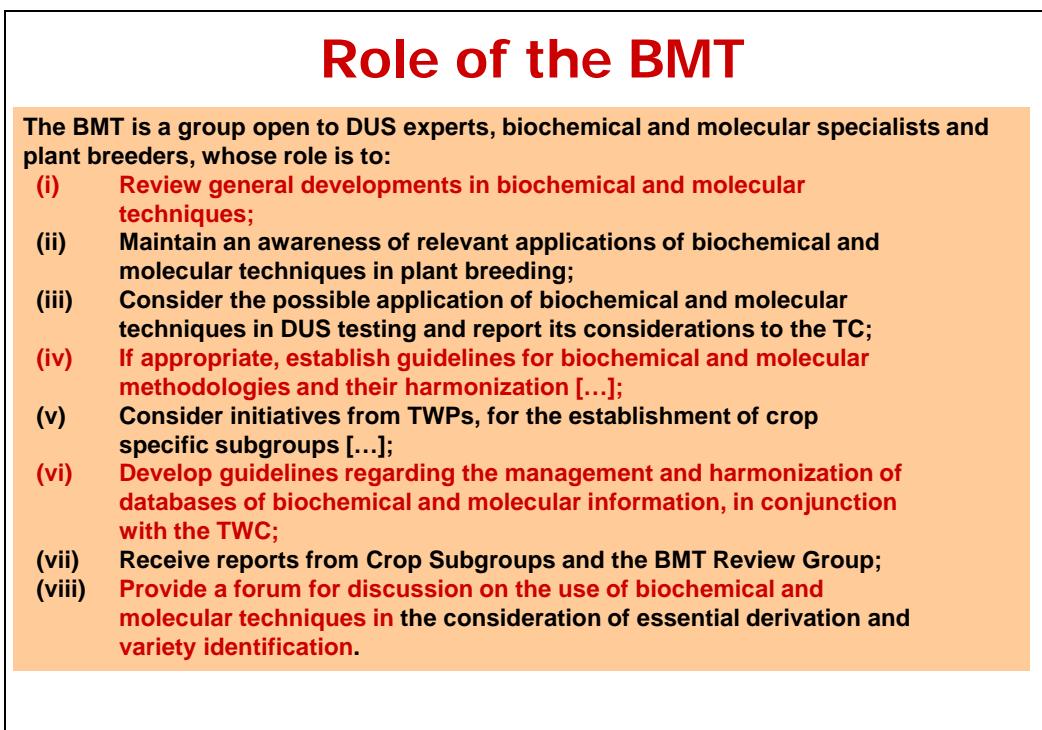
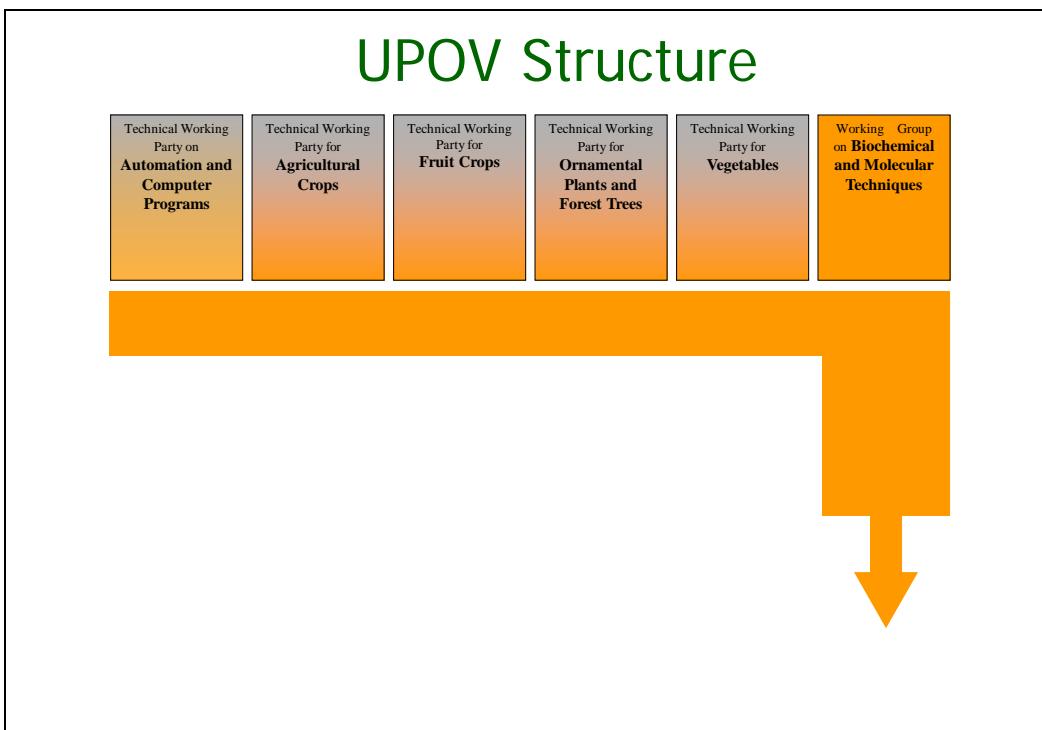
Special Characteristics: Disease Resistance

Criteria	Disease Resistance
(a) results from a given genotype or combination of genotypes	*Knowledge of nature of genetic control of resistance is important
(b) sufficiently consistent and repeatable in a particular environment	*Standardize conditions (greenhouse / laboratory) & methodology *Standardize inoculum *Ring-test
(c) exhibits sufficient variation between varieties to be able to establish distinctness	*Susceptible / Resistant OR varying degrees of resistance?
(d) is capable of precise definition and recognition	*Define and recognize races and strains
(e) allows uniformity requirements to be fulfilled	see above
(f) allows stability requirements to be fulfilled	see above
<i>Difficult and expensive</i>	

Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWPs)
3. Guidance on DUS examination
- 4. Role of the TWPs and BMT**
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool





Role of the BMT

Consider the possible application of biochemical and molecular techniques in DUS testing

(see document BMT/12/2: Annex, page 2)

The BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role is to: [...]

- (iii) Consider the possible application of biochemical and molecular techniques in DUS testing and report its considerations to the TC;
- (v) Consider initiatives from TWPs, for the establishment of crop specific subgroups [...];
- ((vii) Receive reports from Crop Subgroups and the BMT Review Group;)

⇒ UPOV/INF/18 "Possible Use of Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)" (2011)

⇒ TGP/15 "Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)" (2013)

Role of the BMT

Guidance and harmonization for a range of applications

(see document BMT/12/2: Annex, page 2)

The BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role is to: [...]

- (iv) If appropriate, establish guidelines for biochemical and molecular methodologies and their harmonization [...];
- (vi) Develop guidelines regarding the management and harmonization of databases of biochemical and molecular information, in conjunction with the TWC;

⇒ UPOV/INF/17 "Guidelines for DNA-Profiling: Molecular Marker Selection and Database Construction ("BMT Guidelines")" (2010)

Role of the BMT

Raise awareness of general developments

(see document BMT/12/2: Annex, page 2)

The BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role is to:

- (i) Review general developments in biochemical and molecular techniques;
- (ii) Maintain an awareness of relevant applications of biochemical and molecular techniques in plant breeding;

27

Role of the BMT

(see document BMT/12/2: Annex, page 2)

The BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role is to: [...]

- (viii) Provide a **forum for discussion** on the use of biochemical and molecular techniques in the consideration of **essential derivation** and **variety identification**.

28

Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. **The UPOV website**
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

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

Stakeholder features

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

Quick Links

- Introduction to UPOV
- Benefits of UPOV
- UPOV Collection

GENIE Database (**Genus / species**)



31

GENIE Database



Variety denomination related information
Protection offered by UPOV members

DUS information

- UPOV Test Guidelines
- practical experience (UPOV members)
- cooperation in DUS examination

32

UPOV

GENIE DATABASE

GENIE DATABASE

GENIE Database
List of Crop / Species
List of Authorities
Standard Reports
UPOV Code System
UPOV Code Reports and Changes
Plant Variety Database

Triticum aestivum L. (TRITI_AES)



Names & Denomination Class

Names & Denomination Class Protection DUS Guidance and Cooperation

UPOV Principal Botanical Name: **Triticum aestivum L.**
Other Botanical Names: **Triticum aestivum L. emend. Fiori et Paol.**
English Common Names: **Wheat**
French Common Names: **Blé**
German Common Names: **Weizen**
Spanish Common Names: **Trigo**

33

Triticum aestivum L. (TRITI_AES)



DUS Guidance and Cooperation

Names & Denomination Class Protection DUS Guidance and Cooperation

UPOV Principal Botanical Name: **Triticum aestivum L.** UPOV Code:
Other Botanical Names: **Triticum aestivum L. emend. Fiori et Paol.**
English Common Names: **Wheat**

UPOV Test Guidelines:

TG/3/12TG/3/11 + Corr.
Entries between ^ ^ indicate Test Guidelines that cover a lower botanical rank (for example in the case of a genus: there are Test Guidelines at the level of one of the species in the genus).

Drafting Authority

34

Triticum aestivum L. (TRITI_AES)		
DUS Guidance and Cooperation Names & Denomination Class Protection DUS Guidance and Cooperation 		
UPOV Principal Botanical Name:	Triticum aestivum L.	
Other Botanical Names:	Triticum aestivum L. emend. Fiori et Paol.	
English Common Names:	Wheat	
Cooperation in DUS Examination (key to <u>abbreviations</u>) <ul style="list-style-type: none"> ● <u>Authorities with Practical Experience</u> ● <u>Agreements for Cooperation in DUS Examination</u> ● <u>Utilization of Existing DUS Reports</u> 		None
Authorities with Practical Experience		Agreements for Cooperation in DUS Examination
<small>Entries in parenthesis indicate experience at the level of a higher botanical rank (for example in the case of a species: there is experience at the level of the genus to which it belongs).</small>		
<small>☞ in the receiving column indicates that the authority specified in the column has agreed to cooperate in DUS examinations for any interested member of the Union.</small>		

Authorities with Practical Experience	
	Triticum aestivum L. (TRITI_AES) 
Entries in parenthesis indicate experience at the level of a higher botanical rank (for example in the case of a species: there is experience at the level of the genus to which it belongs).	
Entries between ^ ^ indicate experience at the level of a lower botanical rank (for example in the case of a genus: there is experience at the level of one the species in the genus).	
AUTHORITY	NOTES
Albania	
Argentina	
Austria	
Azerbaijan	
Belarus	
^Belgium	etc.

Agreements for Cooperation in DUS Examination

Triticum aestivum L. (TRITI_AES)



⇒ in the receiving column indicates that the authority specified in the offering column offers to carry out examinations for any interested member of the Union.

(): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

OFFERING AUTHORITY / EXAMINATION OFFICE	AUTHORITIES RECEIVING EXAMINATION REPORTS	NOTES
(⇒)	(Switzerland)	(Switzerland): DUS tests are not conducted in Switzerland. In cases where a DUS test report is not available from a member of the Union, the Office of Plant Variety Protection will request an appropriate authority or testing of a member of the Union to perform a DUS test on its behalf.
Austria	European Union (Community Plant Variety Office (CPVO))	
Belgium	European Union (Community Plant Variety Office (CPVO))	
Bolivia (Plurinational State of)		
Bulgaria	European Union (Community Plant Variety Office (CPVO))	
Croatia	Slovenia	

37

Utilization of Existing DUS Reports

Triticum aestivum L. (TRITI_AES)



⇒ (utilizing) indicates that the authority specified in providing column will, in general, provide existing DUS reports to any member of the Union.

⇒ (providing) indicates that the authority specified in the utilizing column will, in general, utilize existing DUS reports provided by any member of the Union.

(): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

UTILIZING AUTHORITY	PROVIDING AUTHORITY/EXAMINATION OFFICE	NOTES
⇒	Australia	Australia will provide copies of all its DUS test reports to other UPOV members.
⇒	Brazil	Brazil will provide copies of all its DUS test reports to other UPOV members.
⇒	Canada	Canada will provide existing DUS reports to any member of the Union for any taxa for which it has experience in DUS testing.

38

Utilization of Existing DUS Reports

Triticum aestivum L. (TRITI_AES)



⇒ (utilizing) indicates that the authority specified in providing column will, in general, provide existing DUS reports to any member of the Union.

⇒ (providing) indicates that the authority specified in the utilizing column will, in general, utilize existing DUS reports provided by any member of the Union.

(): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

UTILIZING AUTHORITY	PROVIDING AUTHORITY/EXAMINATION OFFICE	NOTES
⇒	Australia	Australia will provide copies of all its DUS test reports to other UPOV members.
⇒	Brazil	Brazil will provide copies of all its DUS test reports to other UPOV members.
⇒	Canada	Canada will provide existing DUS reports to any member of the Union for any taxa for which it has experience in DUS testing.

39

Utilization of Existing DUS Reports

Triticum aestivum L. (TRITI_AES)



⇒ (utilizing) indicates that the authority specified in providing column will, in general, provide existing DUS reports to any member of the Union.

⇒ (providing) indicates that the authority specified in the utilizing column will, in general, utilize existing DUS reports provided by any member of the Union.

(): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

UTILIZING AUTHORITY	PROVIDING AUTHORITY/EXAMINATION OFFICE	NOTES
Australia	⇒	Australia generally accepts DUS reports from UPOV members for any taxon except Solanum tuberosum L.. In deciding whether such test reports are wholly sufficient for the Australian examination of the variety, the Authority refers to the relevant sections of the Plant Breeder's Rights Act (1994).

40

Utilization of Existing DUS Reports

Triticum aestivum L. (TRITI_AES)



⇒ (utilizing) indicates that the authority specified in providing column will, in general, provide existing DUS reports to any member of the Union.

⇒ (providing) indicates that the authority specified in the utilizing column will, in general, utilize existing DUS reports provided by any member of the Union.

(): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

UTILIZING AUTHORITY	PROVIDING AUTHORITY/EXAMINATION OFFICE	NOTES
Australia	Japan	
Australia	New Zealand	
Austria	Slovenia	
Belarus	European Union (Community Plant Variety Office (CPVO))	
Belarus	Germany	

41

DATA & STATISTICS

MEETINGS

NEWS

New videos on benefits of the UPOV system in Canada and Kenya



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

Stakeholder features

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

 UPOV PRISMA
PBR Application Tool

GENIE Database 

UPOV Lex

 Plant Variety Database (PLUTO)

Quick Links

- Introduction to UPOV
- Benefits of UPOV
- UPOV Collection

42

Plant Variety Database: PLUTO

New: Video Tutorial

The data currently in Plant Variety Database (PLUTO) was last updated on 2018-06-13.

[Term Search](#) | [Denomination Search](#)

SEARCH BY

- + UPOV Code
- + Denomination
- + Record type
- + Application Date
- + Botanical name

[search !\[\]\(b49bafcc7e0b3283c4143e809ee0f643_img.jpg\)](#)

FILTER BY

Source	Type	Status	End Type	Grant Date	End Date		
NL	201,043	FR	199,569	GB	177,291	DE	178,505
IT	167,873	PL	166,273	ES	165,224	CZ	157,173
DK	155,675	SK	154,394	HU	153,906	AT	149,936
HR	148,261	SE	146,517	BG	146,232	BE	145,927
RO	145,241	SI	144,963	PT	144,815	LT	144,127
EE	143,719	LV	142,498	MT	141,223	LU	141,223
GR	141,223	CY	141,223	IE	141,223	FI	141,223
OZ	141,223	QM	65,955	US	47,044	RU	33,404

43

UPOV code: containing “PRUNU” **Denomination: containing “red”**

The data currently in Plant Variety Database (PLUTO) was last updated on 2018-06-13.

[Term Search](#) | [Denomination Search](#)

SEARCH BY

- + UPOV Code
- + Denomination
- + Record type
- + Application Date
- + Botanical name

[search !\[\]\(26debdd08de6dadb3b1430770cea622d_img.jpg\)](#)

FILTER BY

Source	Type	Status	End Type	Grant Date	End Date		
US	41	CL	0	AU	0	IT	1

Current Search

[UOPNuru](#) [Delete*](#)

Current Filter

[clear !\[\]\(4ae72a306054dbd6e24ae8eb29da4b3f_img.jpg\)](#)

1 - 25 / 54											
edit columns											
UPOV Code	Country	Type	Botanical Name	Common Name	App. No	App. Date	Grant date	Denomination			
PRNU	IT	PBR	Prunus L.	SUGINO GIAPPONESE	103BN/1006_103BN/101	1006-08-09	2009-12-22	Red noble			
PRNU	CL	PBR	Prunus sp.	Interspecifico de Prunus	1417	2015-07-13	2014-11-11	Blackred I			
PRNU	CL	PBR	Prunus sp.	Interspecifico de Prunus	1418		2014-11-11	Blackred II			
PRNU	CL	PBR	Prunus sp.	Interspecifico de Prunus	1419	2015-07-13	2014-11-11	Blackred VI			
PRNU	CL	PBR	Prunus sp.	Interspecifico de Prunus	1419		2014-11-11	Blackred XI			
PRNU	CL	PBR	Prunus sp.	Interspecifico de Prunus	1432	2015-07-13	2014-11-11	Plumred I			
PRNU	CL	PBR	Prunus sp.	Interspecifico de Prunus	1433	2015-07-13	2014-11-11	Plumred VI			
PRNU	LIS	PFL	Interspecific Prunus species	Interspecific tree	13373793	2014-12-01	2015-09-18	Glory Red			
PRNU	US	PFL	Prunus sp.	Interspecific tree	13374014	2011-12-08	2013-09-20	Plumred VII			

44

UPOV code: containing “PRUNU” **Denomination: containing “red”**

The data currently in Plant Variety Database (PLUTO) was last updated on 2015-04-24.

Term Search Denomination Search

SEARCH BY

- + UPOV Code = [lookup]
- + Denomination =
- + Record type =
- + Application Date =
- + Botanical name =

FILTER BY

Source	Type	Status	End Type	Grant Date	End Date
US	137 FR	102 ES	63 IT	43	
SI	39 NL	38 CZ	37 HU	37	
SK	36 RO	34 PL	33 MT	32	
LU	32 GR	32 CY	32 SE	32	
PT	32 LV	32 LT	32 IE	32	
HR	32 GB	32 FI	32 EE	32	
DK	32 DE	32 BG	32 BE	32	
AT	32 OZ	32 ZA	27 AU	24	

Sort: Count - desc ▾ Display: List

Current Search: UC:prunu x DEN:red x

Current Filter:

clear

1 - 25 / 423 edit columns per page / 17

UPOV Code	Country	Type	Botanical Name	Common Name	App. No.	App. Date	Grant date	Denomination
PRUNU	US	PLP	Prunus sp.	Interspecific tree	11634854	2006-12-07	2008-03-25	PLUMRED I
PRUNU	US	PLP	Prunus sp.	Interspecific tree	11634856	2006-12-07	2008-03-25	BLACKRED III
PRUNU	US	PLP	Prunus sp.	Interspecific tree	11984892	2007-11-26	2008-12-02	Blackred I
PRUNU	US	PLP	Prunus sp.	Interspecific tree	11984899	2007-11-26	2008-12-16	Blackred V
PRUNU	US	PLP	Prunus sp.	Interspecific tree	11984896	2007-11-26	2008-12-23	PLUMRED V

UPOV code: containing “PRUNU” **Denomination: containing “red”**

HOME » PVP DATA & STATISTICS » PLUTO »

New: Video Tutorial

The data currently in Plant Variety Database (PLUTO) was last updated on 2018-06-13.

Term Search Denomination Search

Search for UPOV Codes you are interested in. Clicking on an item in the list will add that item to the UPOV Code search box in the

UPOV Code = [lookup]

Denomination =

Search Type:

search

46

UPOV code: containing “PRUNU” **Denomination: containing “red”**

HOME > PVP DATA & STATISTICS > PLUTO >

PLUTO: Plant Variety Database

The data currently in Plant Variety Database (PLUTO) was last updated on 2015-04-15.

Term Search **Denomination Search** (circled in red)

UPOV Code	=	<input type="text"/>	[lookup]
Denomination	=	<input type="text"/>	

Search Type: **Similarity Factor** (dropdown menu circled in blue)

- ? Similarity Factor
- Fuzzy
- Phonetic
- Contains
- Starts
- Ends

[es/prmr/en/](#)

47

UPOV Code = <input type="text" value="prunu"/> [lookup]	UPOV Code = <input type="text" value="prunu"/> [lookup]																																							
Denomination = <input type="text" value="red"/>	Denomination = <input type="text" value="red"/>																																							
Search Type: Contains (circled in red)	Search Type: Phonetic (circled in red)																																							
Search type: contains (Denomination) Text tested: "red" Denomination class: (PRUNU) Denominations Compared: 16199 Total Displayed: 504	Search type: phonetic (Denomination) Text tested: red Denomination class: (PRUNU) Denominations Compared: 16199 Total Displayed: 271																																							
<table border="1"> <thead> <tr> <th>Relevance</th> <th>Denomination</th> <th>Botanical Name</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>Swired</td><td>Prunus armeniaca L.</td></tr> <tr><td>5.00</td><td>Bredskä</td><td>Prunus armeniaca L.</td></tr> <tr><td>5.00</td><td>Redwin</td><td>Prunus persica (L.) Ratsch</td></tr> <tr><td>5.00</td><td>Dixired</td><td></td></tr> <tr><td>5.00</td><td>Redhaven</td><td></td></tr> <tr><td>5.00</td><td>Western Red</td><td></td></tr> </tbody> </table>	Relevance	Denomination	Botanical Name	5.00	Swired	Prunus armeniaca L.	5.00	Bredskä	Prunus armeniaca L.	5.00	Redwin	Prunus persica (L.) Ratsch	5.00	Dixired		5.00	Redhaven		5.00	Western Red		<table border="1"> <thead> <tr> <th>Relevance</th> <th>Denomination</th> <th>Botanical Name</th> </tr> </thead> <tbody> <tr><td>7.78</td><td>RADU</td><td>Prunus avium (L.) L</td></tr> <tr><td>7.78</td><td>Radu</td><td>Prunus avium (L.) L</td></tr> <tr><td>7.78</td><td>Radu</td><td>Prunus armeniaca L</td></tr> <tr><td></td><td></td><td>Prunus avium (L.) L</td></tr> <tr><td></td><td></td><td>Prunus avium (L.) L</td></tr> </tbody> </table>	Relevance	Denomination	Botanical Name	7.78	RADU	Prunus avium (L.) L	7.78	Radu	Prunus avium (L.) L	7.78	Radu	Prunus armeniaca L			Prunus avium (L.) L			Prunus avium (L.) L
Relevance	Denomination	Botanical Name																																						
5.00	Swired	Prunus armeniaca L.																																						
5.00	Bredskä	Prunus armeniaca L.																																						
5.00	Redwin	Prunus persica (L.) Ratsch																																						
5.00	Dixired																																							
5.00	Redhaven																																							
5.00	Western Red																																							
Relevance	Denomination	Botanical Name																																						
7.78	RADU	Prunus avium (L.) L																																						
7.78	Radu	Prunus avium (L.) L																																						
7.78	Radu	Prunus armeniaca L																																						
		Prunus avium (L.) L																																						
		Prunus avium (L.) L																																						
Search Type: Ends (circled in red)																																								
Search type: ends (Denomination) Text tested: "red" Denomination class: (PRUNU) Denominations Compared: 16199 Total Displayed: 400																																								
<table border="1"> <thead> <tr> <th>Relevance</th> <th>Denomination</th> <th>Botanical Name</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>Swired</td><td>Prunus armeniaca L</td></tr> <tr><td>5.00</td><td>Dixired</td><td>Prunus persica (L.)</td></tr> <tr><td>5.00</td><td>Western Red</td><td>Prunus persica (L.)</td></tr> <tr><td>5.00</td><td>Syred</td><td>Prunus armeniaca L</td></tr> </tbody> </table>	Relevance	Denomination	Botanical Name	5.00	Swired	Prunus armeniaca L	5.00	Dixired	Prunus persica (L.)	5.00	Western Red	Prunus persica (L.)	5.00	Syred	Prunus armeniaca L																									
Relevance	Denomination	Botanical Name																																						
5.00	Swired	Prunus armeniaca L																																						
5.00	Dixired	Prunus persica (L.)																																						
5.00	Western Red	Prunus persica (L.)																																						
5.00	Syred	Prunus armeniaca L																																						

48

Role of the UPOV Code

...eliminating problems of botanical synonyms

Solanum lycopersicum L. (SOLAN_LYC) 

Names & Denomination Class

Names & Denomination Class	Protection	DUS Guidance and Cooperation
----------------------------	------------	------------------------------

UPOV Principal Botanical Name: Solanum lycopersicum L. JPOV Code: SOLAN_LYC

Other Botanical Names: Lycopersicon esculentum Mill. JPOV Variety Denomination Class: CLASS 4.2

English Common Names: Tomato; cherry tomato; tomato [List Of Classes \(UPOV/INF/12/4\)](#)

French Common Names: Tomate; tomate; tomato cerise Family Solanaceae

German Common Names: Kirschtomate; Tomate Relevant Technical Working Party(s) (TWPs) TWV

Spanish Common Names: Tomate; tomate; tomatera; tomatillo Crop Type(s) Vegetable

Article 20

(3) [Registration of the denomination]

- denomination shall be submitted by the breeder to the authority.
- if it does not satisfy the requirements, the authority shall refuse to register it
- denomination shall be registered by the authority at the same time as the breeder's right is granted.

Video Tutorial of PLUTO

The screenshot shows the UPOV PLUTO Plant Variety Database search interface. At the top, there's a navigation bar with links for 'ABOUT UPOV', 'MEMBERSHIP', 'UPOV SYSTEM', 'PVP DATA & STATISTICS', 'MEETINGS', and 'NEWS'. Below the navigation bar, the main content area displays the 'PLUTO: Plant Variety Database' logo and a message indicating the data was last updated on 2014-06-13. A red starburst graphic points to a green button labeled 'New: Video Tutorial'. Below this, there are search fields for 'Term Search' and 'Denomination Search'. A section titled 'SEARCH BY' contains dropdown menus for 'UPOV Code', 'Denomination', 'Record type', 'Application Date', and 'Botanical name', each with a corresponding input field and a '(lookup)' button.

51

<http://www.upov.int>

The screenshot shows the UPOV website homepage. At the top, there's a navigation bar with links for 'DATA & STATISTICS', 'MEETINGS', and 'NEWS'. The main content area features a large image of sunflowers. Overlaid on the image is a green banner with the text 'New videos on benefits of the UPOV system in Canada and Kenya'. To the right of the image, there's a sidebar titled 'Stakeholder features' which lists 'Breeders', 'Farmers and Growers', 'Policy makers', and 'General Public'. Further down the page, there are sections for 'UPOV PRISMA PBR Application Tool', 'GENIE Database', 'UPOV Lex', and 'Plant Variety Database (PLUTO)'. At the bottom left, there's a 'Welcome' banner. The bottom right corner contains a small text '52'.

New videos on benefits of the UPOV system in Canada and Kenya

Stakeholder features

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

UPOV PRISMA
PBR Application Tool

GENIE Database

UPOV Lex

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

53

MEETINGS

- Home
- Calendar of Meetings
- Meeting Documents
- Seminars & Symposia
- Restricted area
- Search Documents

HOME > MEETINGS >

Meeting Documents

Unless otherwise agreed by the Council of UPOV, only documents that have been adopted by the Council of UPOV and that have not been superseded can represent the position of UPOV. See [UPOV Collection](#) for guidance and information materials concerning plant variety protection.

UPOV sessions: program of the week

- Council (C)
- Council (Extraordinary Sessions) (C(EXT))
- Administrative and Legal Committee (CAJ)
- Administrative and Legal Committee Advisory Group (CAJ-AG)
- Technical Committee (TC)
- Enlarged Editorial Committee (TC-EDC)
- Technical Working Party for Agricultural Crops (TWA)

Open access
(except Consultative Committee)

TGP/14 Subgroup Meeting (TGP14/SG)
Seminars & Symposia (UPOV)
UPOV Diplomatic Conferences (UPOV/DC)

54

The screenshot shows the homepage of the International Union for the Protection of New Varieties of Plants (UPOV). At the top, there are navigation links for 'DATA & STATISTICS', 'MEETINGS', and 'NEWS'. A banner features a sunflower and the text 'New videos on benefits of the UPOV system in Canada and Kenya'. To the right, a sidebar titled 'Stakeholder features' lists 'Breeders', 'Farmers and Growers', 'Policy makers', and 'General Public'. Below this are links to 'UPOV PRISMA PBR Application Tool', 'GENIE Database', 'UPOV Lex', and 'Plant Variety Database (PLUTO)'. A large green arrow points from the 'Welcome' section towards the 'Quick Links' sidebar. The 'Quick Links' sidebar contains three items: 'Introduction to UPOV' (which is highlighted with a red box), 'Benefits of UPOV', and 'UPOV Collection'. The number '55' is located at the bottom right of the page.

The screenshot shows the 'Introduction to UPOV' page. At the top, there are language links for 'Deutsch', 'English', 'Español', and 'Français', along with a 'Contacts Us' button. The main content area has a large 'UPOV' logo and a sunflower image. On the left, a 'Mission Statement' box contains the text: '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.' To the right, a 'Table of Contents' box lists various topics with their corresponding questions: UPOV (What is UPOV?), VARIETY (What is a plant variety?), IMPROVEMENT (Why do farmers and growers need new plant varieties?), BENEFITS (How are new plant varieties of benefit to society?), PROTECTION (What is Plant Variety Protection?), BREEDER (Who can protect a plant variety?), EXCEPTIONS (Exceptions to the Breeder's Right), CONDITIONS (What are the conditions for obtaining protection?), and IMPACT (What information is there on the impact of PVP?). The number '56' is located at the bottom right of the page.

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.

▲ Top of page

Stakeholder features

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

UPOV PRISMA PBR Application Tool

GENIE Database

UPOV Lex

Plant Variety Database (PLUTO)

Quick Links

- Introduction to UPOV
- Benefits of UPOV
- UPOV Collection
- UPOV PRISMA (Information)
- Test Guidelines
- Distance Learning Courses
- Seminars & Symposia
- FAQs

57

HOME » UPOV SYSTEM »

UPOV Training

UPOV Distance Learning Courses

Code	Course	Session	Study period	Registration period
DL-205	Introduction to the UPOV System of Plant Variety Protection under the UPOV Convention	Session 1 Session 2	05-Mar to 08-Apr 2018 01-Oct to 04-Nov 2018	16-Jan to 16-Feb 2018 06-Aug to 14-Sep 2018
DL-305A	Administration of Plant Breeders' Rights (Part A of DL-305 course: Examination of applications for plant breeders' rights)	Session 1 Session 2	05-Mar to 08-Apr 2018 01-Oct to 04-Nov 2018	16-Jan to 16-Feb 2018 06-Aug to 14-Sep 2018
DL-305B	DUS Examination (Part B of DL-305 course: Examination of applications for plant breeders' rights)	Session 1 Session 2	05-Mar to 08-Apr 2018 01-Oct to 04-Nov 2018	16-Jan to 16-Feb 2018 06-Aug to 14-Sep 2018
DL-305	Examination of applications for plant breeders' rights	Session 1 Session 2	05-Mar to 08-Apr 2018 01-Oct to 04-Nov 2018	16-Jan to 16-Feb 2018 06-Aug to 14-Sep 2018

The UPOV Courses are hosted on the WIPO eLearning Center.

DL-205

**Introduction to the UPOV System of Plant Variety Protection
under the UPOV Convention**

DL-305

Advanced Distance Learning Courses

Registrations can be made in three different categories:

Category 1:

Government officials of members of the Union nominated by the relevant representative to the UPOV Council
No fee

Category 2:

Officials of observer States / intergovernmental organizations nominated by the relevant representative to the UPOV Council
(One non-fee paying student per State / intergovernmental organization;
Additional students: CHF1,000 per student)

Category 3:

Others

Fee: CHF1,000

59

Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. The UPOV website
6. **Agenda for the BMT Session**
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

DRAFT SCHEDULE FOR THE WORKING GROUP ON BIOCHEMICAL AND MOLECULAR TECHNIQUES, AND DNA-PROFILING IN PARTICULAR (BMT)				
Seventeenth Session, Montevideo, Uruguay, September 10 to 13, 2018				
	Monday, Sep 10	Tuesday, Sep 11	Wednesday, Sep 12	Thursday, Sep 13
	BMT MEETING (9:00) <u>Item 1: Opening of the session</u> <u>Item 2: Adoption of the agenda (BMT/17/1 Rev.2)</u> <u>Item 3: Preparatory information (BMT/17/4)</u> <u>Item 4: Reports on developments in UPOV/BMT/17/2)</u> <u>Item 5: Short presentations by participants</u>	[start at 8:30] <u>Item 10: Review of document INF/17 (BMT/17/10 and INF/17/2 Draft1)</u>	[Breeders' Day] [start at 8:30] <u>Item 11: Use of MT in examining essential derivation</u> [presentation on EDV update from the UPOV office] (a) Do new breeding techniques lead to Essentially Derived Varieties? (BMT/17/9) <u>Item 12: Use of MT in Variety identification</u> [presentation on variety identification from the UPOV office] (a) Implementation of SNP markers to identify soybean varieties commercialized in Uruguay (BMT/17/13)	[start at 8:30] <u>Item 14: Date/Place of next session</u> <u>Item 15: Future program</u>
10.30	COFFEE	COFFEE	COFFEE	COFFEE
11.00	<u>Item 6: MT in relation to DUS exam.</u> (a) Test of the potential use of SNPs markers on oilseed rape (BMT/17/8) (b) Use of Molecular Marker Techniques in DUS and Enforcement in the Republic of Korea (BMT/17/14) (c) Do resistance markers for tomato fulfil the requirements of TGP/15? (BMT/17/21) (d) Use of DNA-based markers for variety protection purposes in soybean (BMT/17/22)	<u>Item 10: Review of document INF/17 (BMT/17/10 and INF/17/2 Draft1)(cont.)</u>	<u>Item 11: Use of MT in Variety identification (cont.)</u> (b) Corn Hybrid parental identification- Use of Hybrid Monomorphic Profile vs Pericarp Genotyping (BMT/17/16) (c) Variety identification in soybeans using SNPs (BMT/17/18) (d) Presentation of a set of 11 SNPs capable of discriminating 80 soybean varieties from a reference collection (BMT/17/19) [presentation on UPOV PRISMA PBR application tool from the UPOV office]	<u>Item 16: Report of the session</u> <u>Item 17: Closing of the session</u>
12.30	LUNCH	LUNCH	LUNCH	END
14.00	<u>Item 8: Cooperation between international organizations (BMT/17/3)</u> (a) DNA-based methods for variety testing: ISTA approach (BMT/17/6) <u>Item 7: Revision of document TGP/15 (BMT/17/7 and TGP/15/2 Draft1)</u> [the session will stop at 16:00]	<u>Item 9: Variety description databases including databases containing molecular data</u> (a) Construction of a European Potato database Part I: Construction, maintenance and use of the common database (BMT/17/11) Part II: Generation of molecular data (BMT/17/12)	<u>Item 6: MT in relation to DUS exam. (cont.)</u> (e) The United States Molecular Marker Working Group: Background for the use of DNA markers in DUS (BMT/17/17) (f) Use of DNA-Based Markers in Testing for Distinctness, Uniformity and Stability (DUS) and Enforcement of Plant Breeders Rights (PBR) (BMT/17/20)	<u>Optional Technical Visit</u>
	COFFEE	16.30 COFFEE	16.30 COFFEE	
	[16:00- 18:00 SAA IPWG]	[resume at 17:00] <u>Item 13: Session to facilitate cooperation (BMT/17/5)</u> (a) A DNA database for Rose - Development and validation of a SNP marker set (BMT/17/15) [end at 19:30]	[resume at 17:00] <u>Item 13: Session to facilitate cooperation (cont.)</u> [end at 19:30]	
	19:00-21:00 Welcome reception Speeches by the Minister of Agriculture, Livestock & Fisheries of Uruguay, INASE President, BMT chair and UPOV office [Photo session]			

Preview

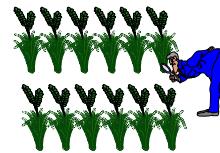
1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. **The Concept of Essentially Derived Varieties**
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

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 [...]

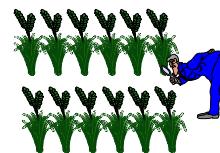
63

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 ...

64

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

65

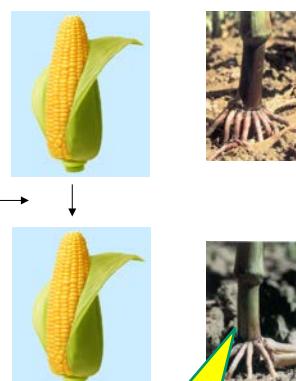
ESSENTIALLY DERIVED VARIETIES

Protected plant variety

Patented genetic element

>====<

- Protected by Patent?
Protected by PBR?
• if EDV (1991 Act only)



Distinct

(Photo: istockphoto/valentinarr)

66

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.

67

ESSENTIALLY DERIVED VARIETY?



(Photo: istockphoto/valentinarr)

68

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)

69



UPOV/EXN/EDV/2

Predominantly derived from the initial variety



The following might be considered in relation to the notion of **“essential characteristics”:**

- essential characteristics [...] means **heritable traits [...] that contribute to the principal features, performance or value of the variety;**
- characteristics that are **important from the perspective of the producer, seller, supplier, buyer, recipient, or user;**

(Photo: istockphoto/valentinarr)

70



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)

71



UPOV/EXN/EDV/2



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



(Photo: istockphoto/valentinarr)

72



UPOV/EXN/EDV/2



- (v) essential characteristics are **not restricted to those characteristics that relate only to high performance or value** (for instance, disease resistance may be considered as an essential characteristic when the variety has susceptibility to disease);
- (vi) essential characteristics **may be different in different crops/species.**



(Photo: istockphoto/valentinarr)

73

ESSENTIALLY DERIVED VARIETIES

- **Implementation**

- With regard to establishing whether a variety is an essentially derived variety, a common view expressed by members of the UPOV is that the existence of a relationship of essential derivation between protected varieties is a matter for the holders of plant breeders' rights in the varieties concerned.

74

ESSENTIALLY DERIVED VARIETIES

Can EDVs be protected ?

YES

Can EDVs be commercially exploited?

AUTHORIZATION NEEDED

It requires the authorization of the PBR holder of the initial variety and of the PBR holder of the EDV

75

Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWPs)
3. Guidance on DUS examination
4. Role of the TWPs and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

VARIETY IDENTIFICATION

"The BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role is to:

- [...]

"(viii) Provide a **forum for discussion on the use of biochemical and molecular techniques in the consideration of essential derivation and variety identification.**"

VARIETY IDENTIFICATION

- UPOV does not directly address variety identification - it is concerned with distinctness (related but not the same);
- The variety description can play a role in variety identification

Variety description developed at the time of the grant of the breeder's right
(original variety description)

Purposes:

- (a) to describe the characteristics of the variety; and
- (b) to identify and list similar varieties and differences from these varieties;

combined with the information on the basis for (a) and (b), namely:

Variety description developed at the time of the grant of the breeder's right (Continued)
(original variety description)

Purposes:

- (a) to describe the characteristics of the variety; and
- (b) to identify and list similar varieties and differences from these varieties;

combined with the information on the basis for (a) and (b), namely:

- Date and document number of UPOV Test Guidelines;
- Date and/or document number of Reporting Authority's test guidelines;
- Reporting Authority;
- Testing station(s) and place(s);
- Period of testing;
- Date and place of issue of document;
- Group: (Table: Characteristics; States of Expression; Note; Remarks);
- Additional Information:
 - (a) Additional Data
 - (b) Photograph (if appropriate)
 - (c) RHS Colour Chart version used (if appropriate)
 - (d) Remarks

Variety description developed at the time of the grant of the breeder's right (Continued)
(original variety description)

Status in relation to the verification of the conformity of plant material to a protected variety for enforcement of the breeder's right:

"While the UPOV Convention requires members of the Union to provide for appropriate legal remedies for the effective enforcement of breeders' rights, it is a **matter for breeders** to enforce their rights." (UPOV/EXN/ENF/1)

the **description** of the variety characteristics **and** the basis for **distinctness from the most similar** variety are **linked** to the circumstances of the DUS examination, namely:

- Date and document number of UPOV Test Guidelines;
- Date and/or document number of Reporting Authority's test guidelines;
- Reporting Authority;
- Testing station(s) and place(s);
- Period of testing;
- Date and place of issue of document;
- Group: (Table: Characteristics; States of Expression; Note; Remarks);
- Additional Information:
 - (a) Additional Data
 - (b) Photograph (if appropriate)
 - (c) RHS Colour Chart version used (if appropriate)
 - (d) Remarks

Preview

1. Introduction to UPOV
2. Overview of the Technical Working Parties (TWP)
3. Guidance on DUS examination
4. Role of the TWP and BMT
5. The UPOV website
6. Agenda for the BMT Session
7. The Concept of Essentially Derived Varieties
8. The Role of UPOV in Variety Identification
9. UPOV PRISMA PBR Application Tool

New PBR Application Tool

UPOV PRISMA 



Version 2 released **early February 2018**

UPOV PRISMA **Overview - what is it and how does it work?**



UPOV PRISMA

Online PBR Application Tool

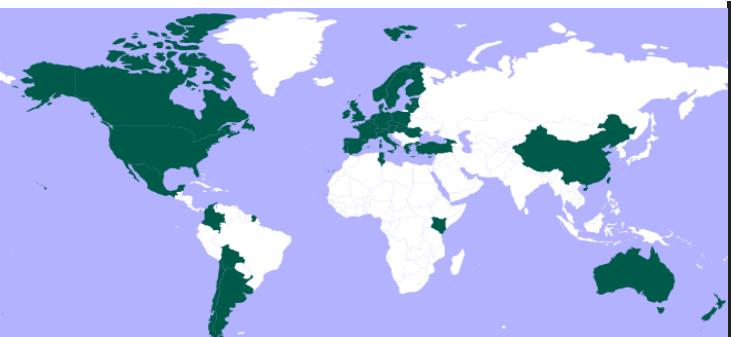


The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory.

- Online application tool to submit application data to participating PVP Offices in required format
- Easy access to PVP application forms, which can be displayed in a range of languages
- Much of the information provided in the Technical Questionnaire will be automatically translated
- Relevant data can be re-used in subsequent applications
- Different user roles can be specified (e.g. drafter, signatory, translator, agent)
- Controlled access, secure and confidential

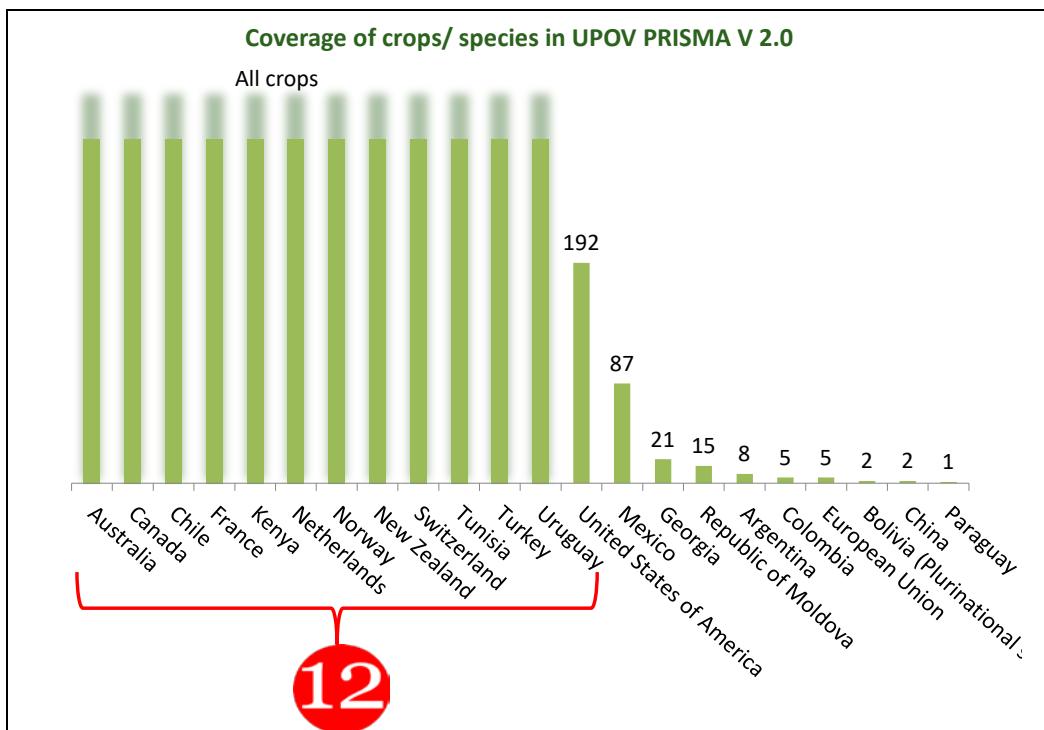
UPOV PRISMA

Coverage- 22 Members (including CPVO)



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.

Argentina
Australia
Bolivia (Plurinational State of)
Canada
Chile
China
Colombia
European Union
France
Georgia
Kenya
Mexico
Netherlands
New Zealand
Norway
Paraguay
Republic of Moldova
Switzerland
Tunisia
Turkey
United States of America
Uruguay



UPOV PRISMA 

Navigation languages

Welcome User Head , Madhour English

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

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_302017 00000658	28/06/2017	14/09/2017	NA	Rose			1
XU_302017 00000659	28/06/2017	28/06/2017	NA	Rose			1

English

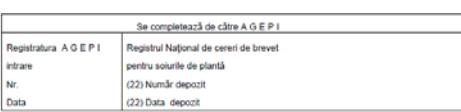
Français

Deutsch

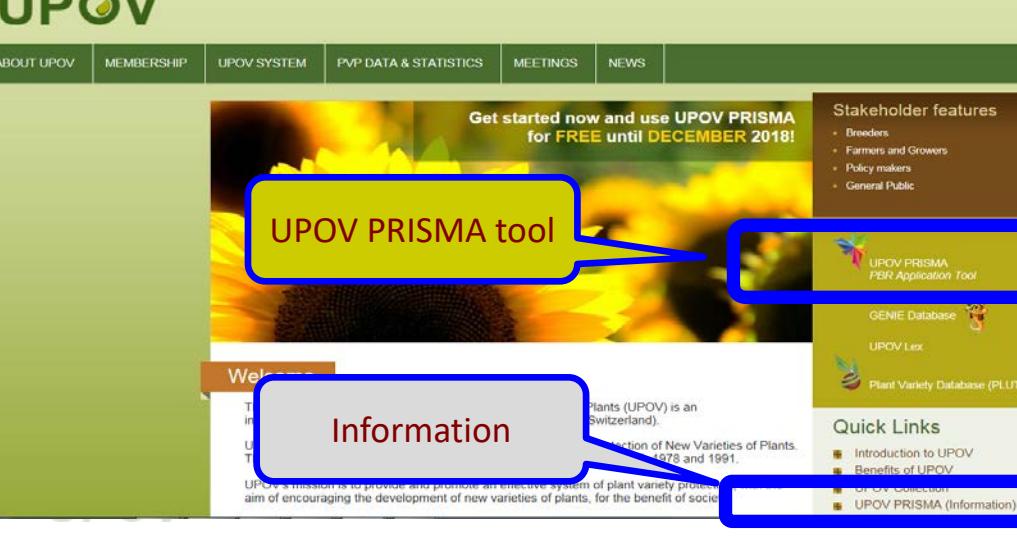
Español

中文

日本語

Output form languages	
Georgian 	Romanian 
Türkçe 	Norwegian 

Where to find UPOV PRISMA on the UPOV Website



The screenshot shows the UPOV website homepage. A large banner at the top reads "Get started now and use UPOV PRISMA for FREE until DECEMBER 2018!". Below the banner, a yellow speech bubble highlights the "UPOV PRISMA tool". To the right, a sidebar lists "Stakeholder features" for Breeders, Farmers and Growers, Policy makers, and General Public. Further down, another yellow speech bubble highlights the word "Information". On the far right, there is a "Quick Links" sidebar with links to Introduction to UPOV, Benefits of UPOV, UPOV Collection, and UPOV PRISMA (Information).

UPOV PRISMA 
Search functionality (by crop & country)



The screenshot shows the UPOV PRISMA PBR Application Tool interface. At the top, there's a navigation bar with links like 'ABOUT UPOV', 'MEMBERSHIP', 'UPOV SYSTEM', 'PVP DATA & STATISTICS', 'MEETINGS', and 'NEWS'. Below the navigation is a main content area with a sidebar on the left containing links for 'How to Access UPOV PRISMA', 'Terms of Use', 'Testimonials', 'Tutorials', 'User Guide', 'PVP Journals', 'Payment of fees', 'Web Services', and 'Contact Us'. The main content area has a heading 'UPOV PRISMA PBR Application Tool' and a sub-section 'What are the benefits of UPOV PRISMA?'. It also includes a search bar with the query 'Malus Mill. (Apple)' and a map of the world showing member countries in green. A large red apple icon is positioned above the map.

New authorities which are anticipated to be included in UPOV PRISMA Version 2.1 (September 2018)

- Costa Rica
- OAPI
- Republic of Korea
- Serbia
- South Africa
- Sweden
- United Kingdom
- Viet Nam

Total number of authorities : **30**

Total number of countries: **69**



A graphic element consisting of a blue globe and the UPOV PRISMA logo.

New features for Version 2.1

- New languages
 - Navigation language: Vietnamese/ Korean/ Turkish
 - Output form language: Serbian/ Swedish
- Crops/ species coverage expansion
 - Colombia/ Mexico/ Bolivia : from 5 to all crops and species
 - Argentina: from 10 to 18 crops
 - European Union:
 - Ornamentals
 - Fruits
 - Vegetables

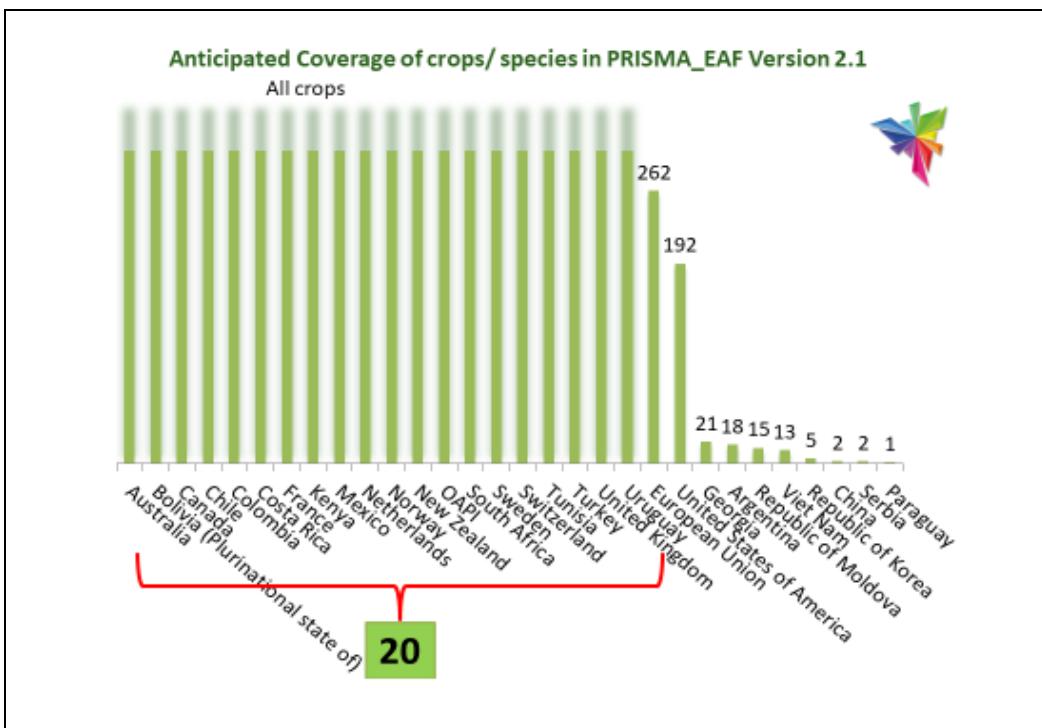
With Test
Guidelines/ CPVO
Protocols



New features for Version 2.1

- New functionalities for «agent Role» (plus New User Guide for Agent)
- Possibility to revise a submitted application
- Possibility to View the output application form before submitting
- Priority/ Novelty Alert
- Information on PVP Offices Application Procedure





FUTURE STEPS (2019 and beyond)

- **Expansion**
 - Members
 - Crops/species
 - More PVP offices/ breeders with machine-to-machine links/ communication to UPOV PRISMA
- **Potential New functionalities (to be assessed and agreed)**
 - Information on DUS cooperation
 - Machine translation ...

UPOV PRISMA Testimony

GET STARTED NOW AND USE UPOV PRISMA FOR FREE UNTIL DECEMBER 2017

Deutsch Español Français

Contact us Site map YouTube

ABOUT UPOV MEMBERSHIP UPOV SYSTEM PVP DATA & STATISTICS MEETINGS NEWS

HOME ▶ UPOV PRISMA PBR APPLICATION TOOL ▶ UPOV PRISMA ▶ Testimonials

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

Testimonials

Breeder Testimony

Experience of breeders

Experience of a PVP Office – Australia

Experience of a PVP Office – New Zealand



UPOV PRISMA Tutorials & Videos

GET STARTED NOW AND USE UPOV PRISMA FOR FREE UNTIL DECEMBER 2017

Deutsch Español Français

Contact us Site map YouTube

ABOUT UPOV MEMBERSHIP UPOV SYSTEM PVP DATA & STATISTICS MEETINGS NEWS

HOME ▶ UPOV PRISMA PBR APPLICATION TOOL ▶ UPOV PRISMA ▶ Tutorials

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

Tutorials

Start an application

Copy an application

(Applying for the same variety with another authority)

Do you want to discover this user-friendly application tool?

UPOV PRISMA Overview - what is it and how does it work?

UPOV PRISMA - How to get started



Tutorials and videos

UPOV PRISMA
USE UPOV PRISMA FOR FREE UNTIL DECEMBER 2019

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

UPOV PRISMA

- Go to UPOV PRISMA
- How to Access UPOV PRISMA
- Terms of Use
- Tutorials
- PVP XML
- Payment of fees
- Web Services
- Contact Us

Start an application

Do you want to discover this user-friendly application tool?

UPOV PRISMA Overview - what is it and how does it work?

Copy Application

UPOV PRISMA - How to get started.

UPOV PRISMA Tutorials

This is a test environment. The real system is available at <https://www.upov.org/prisma>

Welcome User Name : Moderator English

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

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	Authority	Status	Applicant Payment Status	Action
NA	NA	1/05/2017	NA	Lettuce	PROPOSED NAME ROSE AUSTRALIA	123	123	EUROPEAN UNION	Pending	NA	New / Edit
AU_3002110	30/06/2018	23/11/2018	Row					AUSTRALIA	Submitted	Pending Payment Confirmation	View
3001701										Pending Payment Confirmation	New
AU_3999999	NA	NA	NA	Lettuce				BRAZIL	Submitted	Pending Payment Confirmation	New
3000002											
AU_3002179	NA	30/06/2017	NA	Row	TEST RELEASE 1.1 HR AR Row		TEST SYNGENTA	ARGENTINA	Pending	NA	View Edit Delete
3000008											Co-Dealers Management
AU_3999999	NA	NA	1/05/2018	Lettuce	VARIETY_TEST			AUSTRALIA	Submitted	Pending Payment Confirmation	View
3000001											
NA	1/05/2017	1/05/2017	NA	Potato	Proposed var.	Potato FR PC	Potato FR PC	FRANCE	Pending	NA	View
AU_3999999	NA	NA	NA	Lettuce	TEST VARIETY RZ			AUSTRALIA	Submitted	Received	View
3000002											
AU_3002180	NA	NA	30/06/2018	Lettuce	MY DENOM CL.			CHILE	Submitted	Pending Payment Confirmation	View
3001704											
AU_3002181	NA	NA	30/06/2018	Lettuce	VARIETY_TEST_NO			NORMAN	Submitted	Received	View
3001742											
AU_3002180	NA	NA	30/06/2018	Row	DENOMINATION FOR CHILE			CHILE	Submitted	Received	View
3001703											

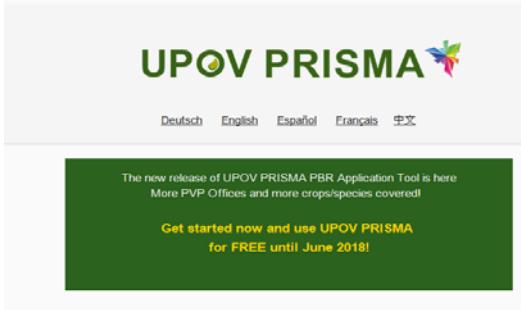
Pour lancer une nouvelle demande, veuillez cliquer sur "nouvelle demande"

Subtitles/CC Options

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

CC YouTube

UPOV PRISMA News Feed



The new release of UPOV PRISMA PBR Application Tool is here
More PVP Offices and more crops/species covered!

Get started now and use UPOV PRISMA
for FREE until June 2018!

WHAT IS IT?
An on-line tool to help you obtain protection for your varieties at home and around the World

WHY USE IT?
Quick and easy transmission of application data for Plant Breeders' Rights



Relevant data can be re-used in subsequent applications

Different user roles can be specified (e.g. drafter, signatory, translator, agent)

Controlled access, secure and confidential

[Find out more](#)

[Keep me posted](#)

UPOV PRISMA on Social Media

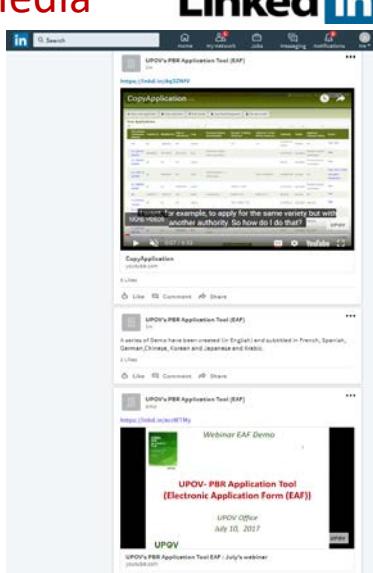


UPOV PRISMA (@upovprisma) Twitter

UPOV PRISMA (@upovprisma) Twitter

UPOV PRISMA (@upovprisma) Twitter

UPOV PRISMA (@upovprisma) Twitter



UPOV PRISMA (@upovprisma) LinkedIn

UPOV PRISMA (@upovprisma) LinkedIn

UPOV PRISMA (@upovprisma) LinkedIn

UPOV PRISMA (@upovprisma) LinkedIn

UPOV PRISMA



Get started now and
use **UPOV PRISMA** for **FREE**
until December 2018!

[End of Annex and of document]