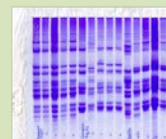




GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD

 **INIA**  
Instituto Nacional de Investigación  
y Tecnología Agraria y Alimentaria



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS



**José Luis Alonso Prados**  
**Technical Director**



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

- Support Research + Development + innovation programs (Plant Varieties & seeds and plant protection products)
- Cooperation with national and international organizations
- Technical and Scientific assistance to the National Competent Authorities on matters related to plant varieties and plant protection products



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

**GENERAL DEPUTY  
DIRECTORATE OF RESEARCH  
AND TECHNOLOGY**

**DTEVPPF**

**Seeds and  
Varieties**

**Plant Protection  
Products Unit**

**Assessment of  
plant varieties &  
Seed analysis**

**Research**

**Assessment of PPP**

**Research**

- ✓ DUS trials CPVO - UPOV
- ✓ ISTA analysis

- ✓ Response of wheat varieties to abiotic stress

- ✓ Reg 1107/2009: Active substances; Plant Protection Products
- ✓ Reg 396/2005: Maximum residue levels

- ✓ Degradation of PPP
- ✓ Soil indicators



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## ❖ **Plant Protection Products matters:**

- Evaluation of active substances and plant protection products according to the Regulation 1107/2009
- Evaluation for setting Maximum Residue Levels of active substances according Regulation 396/2005
- Scientific studies related to the chemical behavior of plant protection products in the environment and ecological indicators of the use of plant protection products.

## ❖ **Plant Variety and seeds matters:**

- Technical variety testing by means of field trials, disease resistance tests and biomolecular techniques
- Field Variety Control tests of commercial plant material
- Laboratory trials and/or tests related with control of plant material quality
- Official international accreditation (ISTA and CPVO)
- Scientific studies related to the response of wheat varieties to different conditions



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## DEPUTY DIRECTORATE GENERAL OF RESEARCH AND TECHNOLOGY

DTEVPPF

Plant Protection Products Unit

Assessment of PPP

Research

- ✓ Reg 1107/2009: Active substances; Plant Protection Products
- ✓ Reg 396/2005: Maximum residue levels

- ✓ Degradation of PPP
- ✓ Soil indicators



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## ASSESSMENT OF ACTIVE SUBSTANCES, PLANT PROTECTION PRODUCTS AND MRL

•INIA has been accredited in 1996 by Ministry of Agriculture as entity for the assessment of active substance:

1. Identity & Physical and Chemical Properties
2. Analytical Methods
3. Residue Data
4. Enviromental Fate and Behaviour
5. Ecotoxicoloy
6. Efficacy



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## •Regulation 1107/2009 (Directive 91/414)

### ACTIVE SUBSTANCES

- Active substances: **30** Draft Assessment Reports + **6** additional reports
- Confirmatory data: **15** Assessment reports of CD
- Re-Aproval of a.s. **1** RAR as RMS and **4** RAR as CoRMS
- Art 21 Reg 1107/2009: **3** Assessment Reports
- Equivalence of technical material: **62** assessment reports

### PLANT PROTECTION PRODUCTS

- 76** Registration Reports of PPP
- 241** Comments to other RR

## •Regulation 396/2005:

- 61** Assessment Reports for setting MRL (Art 10)
- 42** Reviews of existing MRL (Art 12)



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## WORKING GROUPS

- Peer review expert meetings - EFSA
- Post Approval Issues WG – Commission
- Pesticide Steering Group – EFSA
- Southern Member States Steering Group
- Minor Uses WG
- EPPO





# **RESEARCH & TECHNOLOGICAL PROJECTS (Plant Protection Products)**

- ✓ **Behavior of PPP in the environment:** Degradation studies in water and soil, identification and molecular characterization of degradation products and metabolites.
- ✓ **Residues in minor crops:** Residue behavior in minor crops in order to propose possible extrapolations from major to minor crops for setting MRL
- ✓ **Effects of the use PPP in soil biota:** Soil biodiversity and biological indicators of these effects, effect on the soil functionality.



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DTEVPF

Seeds and Varieties

Assessment of plant varieties

Research

- ✓ DUS trials CPVO - UPOV
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- ✓ Response of wheat varieties to abiotic stress



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# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## DUS FIELD TRIALS - CPVO - UPOV

### MADRID



Winter cereals  
Spring cereals  
Zucchini  
Aubergine  
Cabbage

### MURCIA



Grapevine

### SEVILLA



Maize  
Sunflower  
Cotton  
Oil seed rape  
Rice  
Sorghum  
Eucaliptus

### VALENCIA



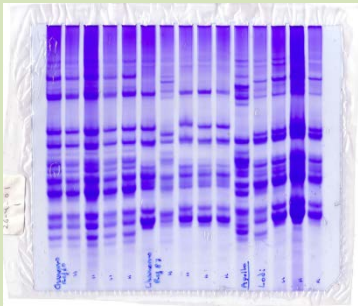
Tomato  
Pepper  
Cucumber  
Lettuce  
Melon  
Watermelon  
Onion.....



# TECHNICAL DIRECTORATE FOR THE ASSESSMENT OF PLANT VARIETIES AND PLANT PROTECTION PRODUCTS

## SEED ANALYSIS FACILITIES (ACREDITED BY ISTA)

### MOLECULAR TECHNIQUES



**Molecular markers for Plant variety differentiation and identification of resistances**

### PLANT HEALTH



**Resistance trials  
Analysis of seed-borne diseases**

### SAMPLING; CERTIFICATION



**ISTA Certification  
Purity of seed lots  
Germination**

### TECHNOLOGICAL QUALITY



**Quality of Wheat  
Barley  
Rice  
Sunflower  
Potato...**



# **RESEARCH & TECHNOLOGICAL PROJECTS**

## **(Seeds & Plant Varieties)**

- **7503719 CPVO. (2012-2015). “Harmonization of resistance tests to diseases for DUS testing”**
- **7506292 CPVO (2014) “Effect of seed priming on vegetable DUS tests”**
- **CC14-072 – Universidad Barcelona – INIA: Study the mechanism involved in the plant response to abiotic stresses: yield and technological quality**
  - ✓ **New phenotyping methodologies**
  - ✓ **Plant response under different hidric and fertilization conditions**
  - ✓ **Effect of different conditions on the quality and yield**
- **Agreement with National Seed Producers Asociation for research on seed borne diseases**
- **Colaboration with seed companies**





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**THANK YOU FOR YOUR ATTENTION**