

## Agnès GRAPIN

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### Associate professor in Ornamental Horticulture

#### EXPERIENCE

**Since 1st sept. 1998 : Associate professor in Ornamental Horticulture at AGROCAMPUS OUEST Angers**

- *Teaching : Ornamental horticulture and cellular biotechnology.*
- *Research: in IRHS 'Genetic Determinism and Diversity in Ornamentals' group. In vitro techniques applied to ornamental (Pelargonium, Rosa) genetic resources conservation. In charge of the cryopreservation program.*

**1996-1998: CIRAD** (Centre de Coopération Internationale en Recherche Agronomique pour le Développement) **researcher detached in CATIE** (Centro Agronomico Tropical de Investigación y Enseñanza, Costa Rica)

- *In charge of biotechnologies research for banana improvement.*
- *Supervisor of an MSc student working on cryopreservation of banana cell suspensions.*

**1995: Study of the genetic diversity of Musa using microsatellites** (4 months). CIRAD, Montpellier.

**1991-95: Development and study and genetic transformation of banana embryogenic cell suspensions.** PhD thesis in CIRAD, Montpellier.

**1991: Study of the atmosphere influence onto the development of Hevea brasiliensis somatic embryos.** DEA training in CIRAD, Montpellier (9 months).

#### LABORATORY SKILLS

Cryopreservation : droplet-vitrification, encapsulation-dehydration

*In vitro* culture: micropropagation, meristem culture, somatic embryogenesis, cell suspensions

Histological techniques

#### QUALIFICATION

**2011:** Habilitation, University of Angers

**1995:** PhD in Basis of plant production. Ecole Nationale Supérieure Agronomique de Montpellier (Agro M.).

**1991:** D.E.A. Basis of plant production: biotechnologies and plant breeding Université des Sciences et Techniques du Languedoc. Montpellier

**1990:** Engineer in Agronomy, specialised in horticulture. Agro. Montpellier

**Languages:** English, Spanish, Italian: good level.

**Abroad stays:** 1996-1998: Costa-Rica (Turrialba) and 1974 - 1979 : Italy (Milan).

#### Some publications in international papers

Gallard A., Mallet R., Chevalier M., Grapin A. 2011. Limited elimination of two viruses by cryotherapy of *Pelargonium* apices related to virus distribution. *Cryo-letters*:32: 111-122

Gallard A., Panis B., Dorion N., Swennen R., Grapin A. 2008. Cryopreservation of *Pelargonium* apices by droplet-vitrification. *Cryo-letters* 29 : 243-251

Dumet D, Grapin A, Bailly C and N Dorion. 2002. Revisiting crucial steps of an encapsulation/dessiccation based cryopreservation process: Importance of thawing method in the case of *Pelargonium* meristems. *Plant Sc.* 163: 1121-1127.

Grapin A., Ortiz JL, Lescot T, Ferriere N and Cote FX. 2000. Recovery and regeneration of embryogenic cultures from female flowers of False Horn Plantain (*Musa AAB*) *Plant Cell Tiss. Org. Cult.* 61 : 237-244

Grapin A., Noyer J.L., Dambier D., Baurens F.C., Carreel F., Lanaud C. and Lagoda P.J.L. 1998. Diploid *Musa acuminata* genetic diversity assayed with Sequence Tagged Microsatellite Sites (STMS). *Electrophoresis* 19 :1374-1380

Grapin A., Schwendiman J. and Teisson C. 1996. Somatic embryogenesis in plantain banana. *In Vitro Cellular and Developmental Biology - Plant* 32 : 66-71.