

AVIS DE PRESENTATION DE TRAVAUX EN VUE DE L'OBTENTION DU DIPL ME D'HABILITATION   DIRIGER DES RECHERCHES

(Arr t  du 23 novembre 1988)

Monsieur J r me VERDIER

pr sentera ses travaux en vue de l'Habilitation   Diriger des Recherches,

sp cialit  **SCIENCES DE LA VIE**

sur le th me suivant :

IMPACTS OF (A)BIOTIC STRESSES ON SEED MATURATION AND QUALITY

le **23/06/2025   10h00**

lieu : Institut Agro Angers - Amphi E bis

Le jury sera compos  de :

Monsieur Christophe BAILLY, Professeur des Universit s Sorbonne Universit , Rapporteur

Monsieur Bertrand DUBREUCQ, Directeur de Recherche Centre INRAE Ile de France Versailles-Saclay, Examineur

Madame Karine GALLARDO-GUERRERO, Directrice de Recherche Centre INRAE Bourgogne-Franche-Comt , Examinatrice

Monsieur Philippe GRAPPIN, Professeur des Universit s Institut Agro Rennes-Angers, Directeur de Recherche

Monsieur Michel HERNOULD, Professeur des Universit s Centre INRAE Nouvelle-Aquitaine Bordeaux, Rapporteur

Madame Marie SIMONIN, Charg e de Recherche HDR Centre INRAE Pays de la Loire, Rapportrice

R sum  des travaux

Seeds are keystone of modern agriculture, serving both as crucial inputs and valuable outputs. This report focuses on years of study to understand the genetic regulatory mechanisms governing seed development and maturation to determine seed quality traits. This work, conducted across various international institutions, employed OMICS approaches, genetic studies, and reverse genetics to identify and validate genes influencing seed characteristics like composition, size, stress tolerance, longevity, and germination. Initially focused on the understanding of molecular processes during seed maturation, it has evolved to investigate the impact of abiotic and biotic stresses on seed development and epigenetic memory, with the long-term goal of improving seed performance and resilience in a changing climate.