

Dimosthenis KIZIS

PERSONAL DETAILS

Birth Date : 20 / 08 / 1970
Nationality : Greek
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EDUCATION

1997-2001 **PhD in Biology**
University of Barcelone (**UB**) & Center for Research and Development (**CID – CSIC**)
Barcelone, Spain.
Congregation Date: 13 / 06 / 2001

PhD Thesis : “Isolation and characterization of transcription factors that interact with DRE2 cis-element from the promoter of the *rab17* gene, from maize”.

In my PhD thesis I study the DBF1 and DBF2 transcription factors that regulate the expression of the *rab17* gene from maize. The RAB17 protein is a member of the LEA (Late Embryogenesis Abundant) protein family and is expressed at high levels in maize seeds during their normal process of dehydration while on plant. The study of both DBF1 and DBF2 at the gene and protein level aims to advance the understanding of the mechanisms and factors that regulate the expression of RAB17 and further on the understanding of the introductory mechanism of seed dormancy.

1995-1996 **MSc in Biochemistry and Genetics**
University of Newcastle, Newcastle upon Tyne, England.
Congregation Date: 11 / 12 / 1996

Dissertation Title: “Identification of the protein encoded by the low temperature induced gene *blt101*, in barley”

In my MSc dissertation I study the expression of the *blt101* gene at transcriptional as well as at protein level in barley. The expression of the membrane protein BLT101 is induced at low temperatures and forms part of the response mechanism of the plant to adverse climate conditions. The aim of this study was to understand further the general response of the plant under stress conditions.

1990-1995 **BSc in Agronomy**
Aristotle University of Thessaloniki, Greece
Congregation Date: 14 / 07 / 1995

LANGUAGES SPOKEN

Greek: Mother Tongue, **English:** Very Good, **Spanish:**Very Good, **French:**Basic

SCIENTIFIC – WORK EXPERIENCE

- 2007 - present** **Biochemistry Laboratory classes Lecturer.**
Technological Educational Institution of Athens, Department of Food Technology.
Duration : 28 months up to date
- 2008 – 2010** **Collaborating Researcher.**
Food Allergens Laboratory, (Private Entity), Athens Greece.
Duration : 18 months
- 2007 – 2008** **Collaborating Researcher.**
Agricultural University of Athens, Department of Agricultural Biotechnology, Molecular Biology Laboratory, Athens Greece.
Duration : 6 months
- 2006 - 2007** **Collaborating Researcher.**
National Center for Physical Sciences “Demokritos”, Institute of Biology, Athens Greece.
Duration : 9 months
- 2005 - 2006** **Collaborating Researcher.**
Agricultural University of Athens, Department of Agricultural Biotechnology, Molecular Biology Laboratory, Athens Greece.
Duration : 12 months
- 2004 – 2005** **Collaborating Researcher.**
Center for Research and Technology, Institute of Agrobiotechnology, Thessaloniki, Greece
Duration : 19 months
- 2001 – 2002** **Collaborating Researcher.**
CNRS, Institute des Sciences du Vegetal, Gif sur Yvette, Paris, France.
Duration : 16 months
- (*) 2003** **Millitary Servise**

PARTICIPATION IN RESEARCH PROJECTS

COST FA0603 - "Plant Proteomics in Europe", **EU**.

TIPNET - "Tip-Growth in Plants: From Nucleus to Expanding Tip", **EU**.

Pythagoras II - "Genes and Environment: Animal and Plant Response to Adverse conditions and Molecular Ecology", **GR**.

CANVAS - "Research Consortium for the Improvement of Greek Cotton Using Biotechnological Methods", **GR**.

POPWOOD QLK5-CT-1999-01209 – "Engineering fibre and wood properties in Poplar using innovative functional genomic approaches", **EU**.

BIO4CT 960062 - "Improving Abscisic Acid Action", **EU**.

TECHNICAL EXPERTISE

Molecular Biology – Biochemistry :

1. Basic Molecular Biology Techniques
2. cDNA Library Generation.
3. Southern and Northern blot.
4. Nucleic Acid detection using radioactive probes.
5. SDS-PAGE electrophoresis, Western Blot.
6. Protein Detection using ECL.
7. Over-expression and Purification of Recombinant Proteins.
8. Generation of Antibodies.
9. PCR.
10. DNA Sequencing (Manual).

DNA-Protein Interactions :

1. Yeast One-Hybrid system.
2. Electrophoretic Mobility Shift Assay.

Protein-Protein Interactions :

1. Yeast Two-Hybrid system.

Regulation of Gene Expression :

1. Tet derepressible system, Ethanol inducible system.
2. GUS/LUC assays.

Transgenics :

1. Plasmid Transformation in *E. coli*, *A. tumefaciens* and *S. cerevisiae*.
2. Plant Transfection via Microprojectile Bombardment.
3. PEG-mediated Transient Transfection.
4. Plant Transformation (Floral dip).

Microorganism Culturing :

1. *E. Coli*, *A. tumefaciens*, *S. Cereviciae*, *A. nidulans* culturing in liquid and solid media.

Arabidopsis :

1. Map Based Cloning.

Microscopy :

1. Visual – Ultra violet, Cryo-microtome sample sections.

SCIENTIFIC PUBLICATIONS - PATENTS

8. Antonios E. Koutelidakis, **Dimosthenis Kizis**, Konstantina Argiri, Alkistis Kyriakou, Michael Komaitis and Maria Kapsokefalou , **2010**, “Prolonged administration of Green Tea Extract (GTE) increases the ferric reducing antioxidant power of specific organ tissues of mice receiving normal or fatty diets” (**in preparation**)
7. Prassinou, Constantinos; Rigas, Stamatis; **Kizis, Dimosthenis**; Vlahou, Antonia; Hatzopoulos, Polydefkis, **2010**, “Peach bud proteome analysis reveals the role of Redox homeostasis enzymes in sequential post-dormant bud break” (**submitted**)
6. Nicolas Frei dit Frey, Philippe Muller, Fabien Jammes, **Dimosthenis Kizis**, Jeffrey Leung, Catherine Perrot-Rechenmann and Michele Wolfe Bianchi, **2010**, “Tudor-SN is essential for stress tolerance and stabilizes levels of stress-responsive mRNAs encoding secreted proteins in Arabidopsis”, **Plant Cell. 2010, May 18.**
5. Apostolaki A, Erpapazoglou Z, Harispe L, Billini M, Kafasla P, **Kizis D**, Peñalva MA, Scazzocchio C, Sophianopoulou V., **2009**, “AgtA, the dicarboxylic amino acid transporter of *Aspergillus nidulans*, is concertedly down-regulated by exquisite sensitivity to nitrogen metabolite repression and ammonium-elicited endocytosis”. **Eukaryot Cell.Mar;8(3):339-52.**
4. Abdelaty Saleh, Victoria Lumbreras, Cristina Lopez, Eva Dominguez-Puigjaner, **Dimosthenis Kizis** and Montserrat Pagès, **2006**,” Maize DBF1-interactor protein 1 containing an R3H domain is a potential regulator of DBF1 activity in stress responses” **The Plant Journal, 46, 5, 747-758.**
3. **Dimosthenis Kizis** and Montserrat Pagès, **2002**, “Maize DRE binding proteins DBF1 and DBF2 are involved in *rab17* regulation through the Drought Responsive Element in an ABA dependent pathway” **The Plant Journal, 30, 6, 679-689.**
2. **Dimosthenis Kizis**, Victoria Lumbreras and Montserrat Pagès, **2001**, “Role of AP2/EREBP transcription factors in gene regulation during abiotic stress”, **FEBS Letters, 498, 187-189.**
1. **Dimosthenis Kizis**, Adela Goday and Montserrat Pagès, **2001**, “The AP2/EREBP Plant Transcription Factors”, **Current Topics in Plant Biology, 2, 107-116.**

in book chapters

3. **Dimosthenis Kizis** and George Siragakis, **2010**, “ Detection of allergens in cereals” **(in press)**
2. Claudia Nieva*, **Dimosthenis Kizis***, Adela Goday and Montserrat Pagès, **2000**, “Plant AP2/EREBP and bZIP Transcription Factors: Structure and Function”, in **Plant Tolerance in Abiotic Stresses in Agriculture: Role of Genetic Engineering, 157-180, NATO series**, *Cherry et al. (eds.) Kluwer Academic Publishers.*
1. Peter Busk, Antonio Borell, **Dimosthenis Kizis** and Montserrat Pagès, **1999**, “Abscisic Acid Perception and Transduction”, **Biochemistry and Molecular Biology of Plant Hormones**, *P.P.J. Hooykaas, et al. (eds).*

other publications

2. **Dimosthenis Kizis** and George Siragakis, **2008**, “Yersiniosis” , Meat Point journal (greek) .
1. Isolation and characterization of transcription factors that interact with the DRE2 cis-element from the promoter of the *rab17* gene, from maize”, **2001, PhD Thesis.**

patents

Patent No: US 7,414,172 B2
Date: 19-08-2008
Title: “Method for improving plant tolerance to environmental stress”
Inventors: Pages,M., **Kizis,D.** and sanz Molinero,A.I.
Assignee: Consejo Superior de Investigaciones Cientificas (CSIC) Madrid (ES)

PARTICIPATION IN CONGRESSES

COST network meeting, Plant Proteomics in Europe, 2008, Cordoba, Spain
 PEV Congress, 2006 Athens Greece
 56th EEBMB Congress, 2004 Larisa, Greece
 7th International Congress of Plant Molecular Biology, 2003, Barcelona, Spain
 29th FEBS meeting, 2001, Lisbon, Portugal
 6th International Congress of Plant Molecular Biology, 2000, Quebec, Canada
 V Reunion of Plant Molecular Biology 1999, Alicante, Spain
 ABA network meeting, 1998, Gif sur Yvette, France
 ABA network meeting, 1997, Wye College, England