

# Yveline Pailles



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## Objectives

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To apply the skills I have developed through my academic training and research experience to improve the quality of human life.

## Education

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- PhD. in Desert Agriculture January 2012 - Present  
King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia.
- MSc. in Bioscience August 2010- December 2011  
King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia.
- B.Sc. Food Industry Engineering (with Honors) August 2005- December 2009  
Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM), Queretaro, Mexico.

Application of the basic sciences to model, analyze and solve engineering problems of food production and processing. Specialization in Biotechnology and Crop Improvement.

## Other Courses

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- University of Guelph - Ontario, Canada August 2008- May 2009
- University of Nottingham - Nottingham, United Kingdom January 2010- May 2010
- University of Oxford - Oxford United Kingdom June 2011- August 2011

## Laboratory Experience

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- B.Sc. Internship -Food Microbiology Laboratory, ITESM August 2007 - May 2008  
Study of degradative and pathogen microorganisms, as well as the natural flora in food
- Practical Methods for Experimental Biology Course -Sutton Bonington, January 2010 - May 2010  
University of Nottingham
- DNA purification, RNA purification, Protein extraction, Protein crystallization, Restriction digestion, PCR, RT-PCR, Agarose gel electrophoresis, Southern Blot, Western Blot, Plant tissue culture, SDS-PAGE, Plant transformation via *Agrobacterium*, Reporter gene GUS, Protein extraction from plant tissue, HPLC, Gas Chromatograph, Mass spectrometry, Bioinformatics: data mining, genome databases (Ensembl)
- Restriction Mapping Project (Prof. Catherine Rees) January 2010 - May 2010  
Physical map of a cloned fragment of chromosomal DNA based on restriction enzyme analysis and Southern hybridization data.
- Plant Stress Genomics Research Centre -KAUST (Prof. Jian-Kang Zhu) January 2011 - December 2011  
De novo-engineered transcription activator-like effector (TALE) hybrid nuclease effect in plant chromosomal DNA.
- Mutant Screening and Cloning -Oxford University (Prof. Nicholas Harberd) June 2011 - August 2011  
Screening for a specific root/shoot mutation on irradiated *Arabidopsis*. Candidate genes cloning into vectors and plant transformation.
- Desert Agriculture Research Initiative-KAUST (Prof. Nina Fedoroff) January 2012 - Present  
The Mechanisms of Salt Tolerance in Galapagos Tomato

## Research Interests

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Plant genetics, Plant physiology, Molecular biology, Sustainable agriculture, Crop improvement, Salinity tolerance in tomato plants, Wild relatives of tomato, Galapagos tomatoes.