

K. A. Abd-Elsalam CV



Kamel

Molecular Markers Lab. Plant Pathology Research Institute
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Biographical Sketch	
Objective	A research career in Molecular Plant Pathology and Biotechnology that will ample opportunity for dynamic leaderships in these rapidly evolving fields of study.
Full Name	Kamel Ahmed Abd-Elsalam
Date and Place of Birth	19 June 1969 Sharqyia Governorate, Egypt
National Number	
Age	33
Population Group	Male, white
Nationality	Egyptian
Web Adresse	http://kamel.20megsfree.com
Marital Status	Married to Aml Asran. One child-Farah Kamel 18 months old
Languages	Arabic (the mother language) English Germany
Schools Attended	Saud El Keblyia Primary schools, Sharqyia Governorate, Egypt Kamal Eldin Primary School, Sharqyia Governorate, Egypt El-Hussinia secondary School, Sharqyia Governorate, Egypt
Matericulation Year	1988
University Qulification	B.Sc. Plant Pathology Zagazig University, Sharqyia Governorate, Egypt, 1992 M.Sc. Plant Pathology Zagazig University, Sharqyia Governorate, Egypt, 1998
Current Occupation	Ph.D. Candidate (compilation date of Ph. D Program) Co-major: Molecular markers Christian Alberchts Unvi. of Kiel, Plant Pathology Institute, Molecular Mycology Groups. Kiel, Germany Ph.D. supervising committee:- Prof.Dr. Mohmed Anwer Abdel-Satar. Suez Canal Univ. Ismillia, Egypt Prof.Dr. Ibrahim Nagy. Suez Canal Univ. Ismillia, Egypt Prof.Dr. Mohmed Sayed Khalil. PpathRI; Giza ,Egypt Prof.Dr. Joseph A. Verreet Christian Albrechts Unvi. Of Kiel, Plant Pathology Institute,.Kiel, Germany
Current Job	Researcher Assistant in Molecular Markers Lab. Plant Pathology Research Institute (PPathRI) Agricultural Research Center (A.R.C)
Work and Research Experience To Date	
Work, Teaching and Experience	<ul style="list-style-type: none"> • 1995-1997 Cotton Diseases Department, PPathRI; A.R.C.Giza, Egypt M.Sc. / Assistant Researcher (Biochemical and molecular studies on

	<p>Flax Rust in Egypt).</p> <ul style="list-style-type: none"> • 1997-2001 Molecular Markers Lab. PpathRI, A.R.C.Giza ,Egypt Ph.D. / Researcher Assistant (Using Biochemical and molecular to identify <i>Fusarium</i> spp. isolated from some Egyptian Cottons). • 6/200 to 5/2003 Ph.D. student in Christian Albrechts Unvi. of Kiel, Institute of Phytopathology, Molecular Mycology Groups in a channel system scholarships programs between Egypt and Germany for complete Ph.D Thesis.
<p>General experience</p>	<ul style="list-style-type: none"> • 1992, Final year B.Sc. project (Using some Plant Extract (Neem Oil) To Control (PVY) Potato Virus Y) The aim of this project was to control some plant virus Pathogen by using plant extracts especially (neem oil) extracted from the neem seeds. Zagazig Univ. Faculty of Agricultural, Agric. Bot. Department. • 1995-1998, M.Sc. project (Pathological and Biochemical studies on Flax Rust in Egypt) The aim of this project was surveyed flax rust pathogen (<i>Melampsora lini</i>) in the major flax-producing area in 4 location and identification <i>Melampsora lini</i> races by differentials cultivars, after then identification these races by using biochemical markers (Polyacrylamide Gel Electrophoresis, PAGE staining by silver nitrate and Isozymes). Zagazig Univ. Faculty of Agricultural, Agric. Bot. Department. and Cotton Diseases Department, PpathRI; A.R.C.Giza ,Egypt. • 1997-2001 Molecular Markers Lab. (MML) PPathRI, A.R.C. Giza, Egypt Resaerch Plan (Annually) , Using Molecular and Biochemical Markers To identify a Various Plant Pathogen (Fungi, Bacteria and nematodes), study interaction between Host-Pathogen (pathosystems) and Fast Detection of the major plant pathogen in Egypt after appearing the first symptoms on the host by Quantitative-PCR . • 1998-Persent, Ph.D. project Title: Biochemical and molecular identification of <i>Fusarium</i> spp isolated from roots of some Egyptian cotton. 1-Isolation, purification and identification of <i>Fusarium</i> spp isolated from roots of some Egyptian cotton 2-Patogeneicity tests 3-Effect of sampling date on the isolation frequency of <i>Fusarium</i> spp. 4- Effect of cropping sequencing on the isolation frequency of <i>Fusarium</i> spp. 5- Effect of cultivars on the isolation frequency of <i>Fusarium</i> spp. 6-Biochemical characterization of the isolated fusaria by polacrylamide gel electrophoresis (PAGE). A-protein electrophoresis B-Isozymes analysis (Malate Dehydrogenase, Peroxidase, and Esterase). 7-Molecular characterization of the isolated Fusaria by using Random Amplified Polymorphic DNA (RAPD). 8- Molecular characterization of the isolated Fusaria by using Amplified Polymorphic Fragment length Polymorphisms (AFLP). 9-Identification of <i>Fusarium</i> spp. to genus level using 7 different species according to the DNA sequencing (i.e <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i>, <i>Fusarium oxysporum</i>, <i>F moniliforme</i> <i>F solani</i> <i>F. avenaceum</i> and <i>F chlamydosporum</i>). •

Research expertise	<p>-Ability to interact well with members of research teams, understands the goals of the project, and demonstrates the ability to trouble-shoot problems as they arise.</p> <p>2-Strong research skills in the field of Molecular Biology. Well versed with basic research technique such as Nucleic Acid Isolation, Electrophoresis, Protein Extraction and separation procedures- SDS-PAGE and other Isozymes techniques.</p> <p>3-Advanced research skills like Polymerase Chain Reaction PCR, RAPD, AFLP, ITS-PCR,</p> <p>4-Hand on experience in Automated DNA Sequencing Technique trained at Molecular Biology Center, Kiel, Germany.</p> <p><u>A. Molecular markers</u></p> <ul style="list-style-type: none"> • TE-AFLP-Restriction endonucleases Amplified Length Polymorphisms • AFLP-Amplified Fragment Length Polymorphism • AP-PCR-Arbitrarily Primed PCR • RAPD-Randomly Amplified Polymorphic DNA • Rep-PCR-Repetitive DNA Sequence Polymerase Chain Reaction • PCR-RFLP-Polymerase Chain Reaction -Restriction Fragment Length Polymorphism • Bio-PCR • TP-RAPD-Two Primers-Randomly Amplified Polymorphic DNA • ITS-PCR-Internal Transcribed spacers+ • Cloning • DNA Sequencing <p><u>B. Biochemical markers</u></p> <ul style="list-style-type: none"> • Protein stained by silver stain • Isozymes
Theoretical expertise	<p>1-Strong basic theoretical knowledge in Biochemistry, Biophysics, Molecular biology, microbial genetics, cell and developmental biology , Plant Molecular biology and Plant Biotechnology.</p> <p>2-Well versed in fundamental concepts of Genetic Engineering, Cloning and Cloning Vectors.</p>
<p><u>Ph.D Coursework</u></p> <p>Genetic</p> <p>Plant Pathology</p> <p>Others</p>	<p><u>Course Prefix & Title</u></p> <p>1-Molecular genetics</p> <p>2-Biochemical genetics</p> <p>3-Cytogenetics</p> <p>1-Epidemic Diseases</p> <p>2-Fungi Taxonomy</p> <p>3-Fungi physiology</p> <p>4-Plant Diseases Control</p> <p>5-Seeds Diseases</p> <p>6-Plant breeding Methods</p> <p>1-Computer Analysis</p> <p>2-English and Germany language</p>
References	<p>Prof. Dr. Mohmed Sayed Khalil Director of Plant Pathology Research Institute, A.R.C,9-Gamma St. Giza ;Egypt Mobile: 002/0122405220 Fax: 002/025723146 (w)</p> <p>Prof.Dr. Mohmed Anwer Abd El-satar The Head of Agric. Bot., Faculty of Agric. Suez Canal Univ. Ismillia; Egypt Mobile:002/01064475</p>

	<p>Prof. Dr. Aly Abd El-Hady The Head of Cotton Diseases Department, plant Pathology Research Institute, A.R.C,9-Gamma St. Giza ;Egypt Phone:002/025734463(w) Phone:002/022746166(H) Fax: 002/025723146 (w)</p> <p>Prof.Dr.Joseph A. Verreet Director of Institute of Phytopathology, Christian Alberchts Unvi. of Kiel, D-24118, 9-Hermann Rodwaldstr., Kiel, Germany. Mobile:++49/01708139404 Phone:++49/431/8802996 Fax:++49/431/8801583 E-mail: javerreet@phytomed.uni-kiel.de URL: http://www.uni-kiel.de/phytomed</p> <p>Dr.Frank Schnieder Institute of Phytopathology, Christian Alberchts Unvi. of Kiel, D-24118, 9-Hermann Rodwaldstr., Kiel, Germany. Mobile:++49/0167559105 Phone:++49/431/8804574 Fax:++49/431/8801583 E-mail: fschnieder@phytomed.uni-kiel.de URL: http://www.uni-kiel.de/phytomed</p>
Hobbies	Photography
	Publications
International Journal	<p>2002</p> <p>1-Abd-Elsalam K. A., F. Schnieder and J. A. Verreet (2002) Population analysis of <i>Fusarium</i> spp.Phytomedizin, 2002, 3:18-19.</p> <p>2-Abd-Elsalam K. A., M. S. Khalil, A. A. Aly, and A. Asarn-Amal (2002) Genetic diversity among <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i> isolates revealed by UP-PCR and AFLP markers. Phytopathologia Mediterranea 41:1-7.</p> <p>2003</p> <p>1-Abd-Elsalam K. A., F. Schnieder, M. S. Khalil, A.A. Aly and J. A. Verreet (2003) Genetic variation at the intra- and interspecific level in <i>Fusarium</i> spp. associated from Egyptian cottons. journal of Plant diseases and Protection. 110: 46-53.</p> <p>2-Abdel-Satar M. A., M. S. Khalil, I. N. Mohmed, K. A. Abd-Elsalam and J. A. Verreet (2003) Molecular phylogeny of <i>Fusarium</i> species by AFLP fingerprint. African Journal of Biotechnology 3: (In Press).</p> <p>Submitted:</p> <p>1-Abd-Elsalam K. A., F. Schnieder, M. S. Khalil, M. A. Abdel-Satar, and J. A. Verreet (2003) Use of AFLP fingerprinting to analyze genetic variation within and between populations of <i>Fusarium</i> spp. derived from Egyptian cottons. Submitted to (Journal Plant Pathology).</p> <p>2-Abd-Elsalam K. A., F. Schnieder, A. Asran-Amal, M. S. Khalil and J, A. Verreet (2003) Intraspecies genomic groups in <i>Fusarium semitectum</i> and their correlation with origin and morphological characteristics. Submitted to (Journal of Plant Diseases and Protection).</p> <p>3-Abd-Elsalam K. A., F. Schnieder and J. R. Guo (2003) A modified DNA extraction minipreparation protocol for <i>Fusarium</i> isolates. Submitted to (Journal of Rapid Methods And Automation In Microbiology, USA).</p> <p>4- Abd-Elsalam K.A., A. Asran-Amal, A.A. Aly, F. Schnieder, and M. S. Khalil (2003) Comparative evolution of three different molecular typing methods for distinguishing <i>Fusarium oxysporum</i> isolates. Submitted to (Phytopathologia Mediterranea).</p>

	<p>5- Abd-Elsalam K.A., I. N. Mohmed, M. A. Abdel-Satar, M. S. Khalil and J. A. Verreet. (2003) PCR identification of <i>Fusarium</i> genus based on nuclear ribosomal-DNA sequence data. Submitted to (African Journal of Biotechnology).</p>
Conferences	<p>2002</p> <p>1- Khalil M. A., A. A. Aly, F. Schnieder and K. A. Abd-Elsalam (2002) Effect of gel matrices on characterization of <i>Fusarium oxysporum</i> and <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i> by RAPD analysis. DNA Based Molecular Construction International Workshop, 23-25 May Jena, Germany.</p> <p>2-Abd-Elsalam K. A., F. Schnieder, J. A. Verreet, M. S. Khalil, M. A. Abdel-Satar and I. N. Mohmed (2002) Comparison of SDS-PAGE, Isozymes, RAPD and AFLP genetic markers in determining genetic similarity among 46 <i>Fusarium</i> spp. isolates. 53 Deutsche Pflanzenschutztagung, in Bonn, Germany, 16-19 September, 2002. Abstract No. 289.</p>
Thesis	<p>1-MSc. Thesis</p> <p>Abd-Elsalam (1998) Pathological Studies on Flax Rust in Egypt. Zagazig University, Zagazig, Egypt.</p> <p>2- Ph.D. thesis (in preparation)</p> <p>Biochemical and molecular identification of <i>Fusarium</i> spp. isolated from roots of some Egyptian cottons</p>