

CURRICULUM VITAE



Dr. Nader Ragab Abdelsalam Mohamed

- Visiting Scientist, Kansas State University, Agronomy Department, 4008 Throckmorton Hall, Manhattan, KS 66506, funded by Islamic development bank (IDB)
- Lecturer of plant genetic, Faculty of Agriculture Saba Pacha, Alexandria University, Egypt,

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EDUCATION

May, 2013

Visiting Scientist, Kansas State University, Agronomy Department, 4008 Throckmorton Hall, Manhattan, KS 66506, funded by Islamic development bank (IDB)

Working with high-throughput DNA isolation and high-throughput PCR for SSR marker using ABI. QTL mapping and identify QTL for some traits in wheat.

Identification of wheat QTL for aluminum tolerance/Hessian fly/ Curl mite in field conditions using genotyping-by-sequencing and SSR markers.

June, 2009

Ph.D. in Plant Genetics: al-Farabi Kazakh National University, Faculty of biology Kazakhstan, **GPA 4.0/4.0**

Title: Breeding of valuable wheat hybrids based on ancient and new genetic resources from the Arab Republic of Egypt and Republic of Kazakhstan

August, 2004 **M.Sc. in Agriculture Science (Plant Genetics):**
Alexandria University, Faculty of Agriculture Saba Bash,
Egypt, First class

Title: Genetical and cytological studies on some genetic
resources of Jews mallow (*Corchorus olitorius* L.) in Egypt

June, 2000 **B.Sc. Agriculture Science (Dry Land Farming):**
Alexandria University, Faculty of Agriculture Saba Bash,
Egypt, with General grade (very good)

LANGUAGE

Arabic : Professional

English : Very Good written and spoken (with certificate)

Germany : Good (400 h. with certificate)

Russian : Very good (3 year with certificate)

EMPLOYMENT

- Research Associate (part time) at Kansas State University, Agronomy Department, 4008 Throckmorton Hall, Manhattan, KS 66506 USA, October, 7, 2013 –May, 1.2014
- Lecturer of plant genetic from 29.9.2009- present, Agricultural Botany Department, Faculty of Agriculture Saba Bash, Alexandria University, Egypt.
- Assistant lecturer of plant Genetics from 13.8.2004 until 29.9.2009 Agricultural Botany Department, Faculty of Agriculture Saba Bash, Alexandria University, Egypt.
- Demonstrator of plant Genetics 29.9.2001 until 31.8.2004, Agricultural Botany Department, Faculty of Agriculture Saba Bash, Alexandria University, Egypt.

RESEARCH SKILLS AND EXPERIENCE:

- In general, Plant genetic,
- High-throughput DNA isolation
- High-throughput PCR for SSR marker using Agarose Gel and ABI.
- QTL mapping and identify QTL for some traits in wheat.
- Identification of wheat QTL for aluminum tolerance/Hessian fly/ Curl mite in field conditions using genotyping-by-sequencing and SSR markers.
- Molecular genetics, Skillful in PCR and analysis data via GeneMarker software

- Cytogenetic (Skillful in preparation of chromosome spread for karyotype and preparation of the plant Mitosis and meiosis)
- Methods in crossing (excellent in wheat emasculation, pollination, hybridization and backcross)
- Calculate the Heterosis and Heritability by the Microsoft Excel
- Skillful in use PAST: paleontological statistics software package and calculate the genetic similarity
- Skillful in use the Total lab for gel analysis in Isozyme and protein.
- Skillful to use Co-stat for statistical analysis over windows.

COURSES TEACHING:

- Principals of Genetics (cell structure, Mendel's law, heredity, etc...)
- Population Genetics (populations' structure, gene frequency etc...)
- Quantitative Genetics (Quantitative and Qualitative characters, factors effect in population genetic etc...)
- Plant Genetics (breeding, heterosis and heritability etc...)
- Genetics Techniques (preparation the division slides and Isozyme technique etc...)
- Information Technology and their Application (Windows, Word, Excel, Power point and Internet etc...)
- Advanced Molecular Biology (transcription and translation etc...)
- Advance Molecular Genetics (DNA, RAN structure and PCR, etc...).
- Biotechnology in Plants (introduction to biotechnology, goals, objectives and safety ethics etc...).
- Cytogenetic (cell structure, mitosis, meiosis, DNA, RAN etc...)
- Advanced Cytogenetic (chromosomal aberration, types of chromosomes, mutations etc....)

LIST OF PUBLICATIONS

ARTICLES IN REVIEWED JOURNALS

- Salama, E.A., A.I.A. Abido, A.E. Khaled, **Nader R. Abdelsalam (2013)** Embryo callus induction and regeneration of some Egyptian wheat cultivars. Research Journal of Agriculture and Biological Sciences, 9(2): 96-103., ISSN 1816-1561
- **Nader R. Abdelsalam** and Reham M. Abd El-Azeem (2013) Genetic Diversity Analysis of Domesticated Wheat (*Triticum aestivum* L.) and Wild Wheat (*Aegilops* species), Egyptian journal of genetics and cytology,42(21): 36, ISSN: 0046-161X

- Raoufa Abdel Rahman,, Sara E. Gomaa, **Nader R. Abdelsalam**, Hossam El-Din M.F. El-Wakil, Ahmed S. Khaled, Horya M. Hassan (2013) Effect of Sodium Chloride on Tropane Alkaloids Accumulation and Proline content in *Datura metel* and *D. stramonium* callus cultures. International journal of Advanced Biological and Biomedical Research, ISSN: 2322 - 4827, Volume 1, Issue 2, 2013: 197-210 (<http://www.ijabbr.com>)
 - **Nader R. Abdelsalam** and Adel M. Masry (2013) Chromosome inversions polymorphisms and fitness component of *Drosophila melanogaster* Journal of Applied Sciences Research, 9(1): 683-689, 2013 ISSN 1819-544X
 - Houssam E. Elwakil, **Nader R. Abdelsalam**, Reham M. Abd El-Azeem, Alaa A. Hemeida and Nermeen Y. Abass, A. Nassar (2012) Morphological and Molecular genetics characterization of holoparasitic plant, *Cistanche phelypea* (L.) in Siwa Oasis. Egyptian journal of genetics and cytology,41(20): 36, ISSN: 0046-161X
 - **Nader R. Abdelsalam** (2012) Screening for Salt Tolerance in Common and Relatives Wheat via Multiple Parameters. Research Journal of Agriculture and Biological Sciences, 8(1): 36-44, 2012. ISSN 1816-1561
 - H. E. El-Wakil, A.M. Abde Ghany, M.A. Gomaa, S. Hafyz, **Nader R. Abdelsalam** and H.A. Gomaa (2011) Genetic behavior of NaCl exclusion in some Egyptian wheat genotypes and their hybrids. Journal of the advances in agricultural researches. 16: 3. P. 447 - 462.
 - **Nader R. Abdelsalam** (2010) Specific Properties of Hybridisation among Common Wheat (*Triticum aestivum* L.) and Wild Wheat Species *Aegilops* under Experimental Field Conditions. Journal of Applied Sciences Research, 6 (12): 2068 – 2073.
 - **Abdelsalam N. R.** and Z. G. Aytasheva (2010). Characteristics of wheat hybrids based on genetic resources of Egypt and Kazakhstan. International Journal of Biology and Chemistry. 1: 67-72.
 - **Abdelsalam, N.R.**, Bogdanova, E.D., Aytasheva, Z.G. (2008). Agromorphological characteristics of Egyptian and Kazakhstan wheat varieties. Part II: Ear and seed characteristics. Newsletter. Series of biology. Kazakhstan. 2: 37. P. 54-61.
 - **Abdelsalam, N.R.**, Aytasheva, Z.G., Ibrahim, M. (2008). Molecular genetic characteristic of some Kazakhstan and Egyptian common wheat cultivars (*Triticum aestivum* L.) Academic search journal “ПОИСК”. 48: 4. P. 57 - 63.
 - **Abdelsalam, N.R.** (2008). Heterosis: Kazakhstan and Egyptian wheats. Journal of the advances in agricultural research. 13: 3. P. 415 - 425.
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- **Abdelsalam, N.R.**, Aytasheva, Z.G., Ahmed El-Sayed, M. (2008). Wild *Aegilops* in Egypt: structural and enzymatic characters. Vestnik KazNU. Series of biology. 39: 4. P. 67 – 74

ABSTRACTS IN CONFERENCE

- **Nader R. Abdelsalam (2012)** Peroxidase activity, Proline and Chlorophyll Contents and K^+/Na^+ ratio of Common Wheat (*Triticum aestivum* L.) and Relatives (*Aegilops* spp.) as affected by Salinity during Germination. Vienna International Plant Conference Association: Pant abiotic stress tolerance I I, 22-26 February, 2012, Vienna, Austria (**Poster**)
- Aytasheva, Zaure G.; Rysbekova, Aiman, B.; **Abdelsalam, Nader, R. (2011)** To rigid pubescence and Kazakhstan-Egyptian hybrids of soft wheat. Annual Meeting of the American Society of Plant Biologists Minneapolis, Minnesota, August 6-10 (**Abstract**)
- Soliman, Atef, S., El-Wakil, Houssam El-Din M., Khaled, Ahmed, E., **Abdelsalam, Nader, R.** and Nassar, Atef, MK. (2010). Genetic description of Jew's mallow (*Corchorus olitorius* L.) In Egypt. Midwest ASPB meeting AMES, Candia (**Poster**)
- **Abdelsalam, N.R.**, Aytasheva, Z.G. (2009). Characteristics of Egyptian and Kazakhstan wheat varieties. II: Date of Heading. Midwest ASPB (American Society of Plant Biologists and the Phycological Society of America) AMES, IOWA, USA. March 29-30 (**Abstract**).
- Aytasheva, Z.G., Rysbekova, A.B., Polimbetova, F.A., **Abdelsalam, N.R.** (2009). Cluster analysis of leaf quantitative traits in wheat lines with rigid pubescence. Access Code: A4871. ASPB (American Society of Plant Biologists and the Phycological Society of America), Hawaii Convention Center, Honolulu, Hawaii, Saturday July 18 thru Wednesday July 22, 2009 (**Abstract**).
- Aytasheva, Z.G., **Abdelsalam, N.R.**, Rysbekova, A.B., Polimbetova, F.A. (2009). Wheat Model Rigid Pubescence Carriers: Cluster Analysis of Leaf Quantitative Traits. Comparative Biochemistry and Physiology, Part A, 153: S174–S183 (**Abstract**).
- **Abdelsalam, N.R.** and Aytasheva, Z.G. (2009). Salt effect among Egyptian and Kazakhstan wheat parents and F_1 hybrids. Proc. Int. Conf. «Biological diversity and sustainable development of nature and society», 2P. - Almaty, part 2. P. 208 – 210 (**full paper**)
- Aytasheva, Z.G., Rysbekova, A.B., **Abdelsalam, N.R.**, Seidakhmetova, G.B., Polimbetova, F.A. (2009). Model biodiversity cereals and beans: the study on specific wheat, common, adzuki and broad bean varieties. Proc. Int. Conf. «Biological diversity and sustainable development of nature and society», 2P. - Almaty, Kazakhstan, part 2. P. 5 – 7. (**Abstract**)

- **Nader .R. Abdelsalam, Z.G. Aytasheva. (2008).** Joint Wheat Research of Kazakhstan and Egypt: from Ancient Past to Future. P. 152-161. Proc. Int. Conf. “Humboldt Kolleg II”. Kyrgyzstan, Issyk Kul, September, 13-15, “Ilim” Publishers, p. 152-161 (**Abstract**).
- **Abdelsalam, N.R. (2008).** Morphological characteristics: F₁ hybrids Egyptian and Kazakhstan wheats. International Scientific conference “Achievements and Problems of Plant Protection and Quarantined. - Almaty, Part II. - P. 104 – 108 (**Abstract**).
- **Abdelsalam, N.R. (2008).** Evaluation of different salt concentrations on Egyptian and Kazakhstan wheats cultivars and lines at germination. The Second International Congress of Students and Young Scientists (World of Science). Almaty, Kazakhstan, P. 159. (**Abstract**).
- **Abdelsalam, N.R., Bogdanova, E.D., Aytasheva, Z.G. (2008).** Characteristics of Egyptian and Kazakhstan wheat varieties. I: Whole-plant parameters. Midwest ASPB meeting, AMES, IOWA, USA, IA. N 71. - P. 31(**Abstract**)

BOOKS

- **Nader R. Abdelsalam: 2012:** Wheat Hybrids of Ancient and New Genetic Resources, Springer Verlag: LAP LAMBERT Academic publishing. GmbH & Co. KG. Germany, **ISPN: 978-3-659-14316-8**
- <http://www.amazon.com/Wheat-Hybrids-Ancient-Genetic-Resources/dp/3659143162>
- http://www.bod.com/index.php?id=3435&objk_id=727847

TRAINING COURSE

- **“Agricultural worker protection standard training pesticide safety”** June, 6, **2013.** Kansas State University, Manhattan, Kansas
- **“Lab safety”** May, **2013,** Kansas State University, Agronomy Department, Manhattan, Kansas
- **“Research Ethics”** 4-6 August achieved in **FLDC** Alexandria University. **2009**
- **“Effective presentation Skills”** 28-30 July achieved in **FLDC** Alexandria University. **2009**
- **“The Credit hour system”** 25-27 July achieved in **FLDC** Alexandria University. **2009**
- **“Teaching with technology”** 12-14 February achieved in **FLDC** Alexandria University. **2009**

- **“PCR Technique”** 16-18 May, achieved in institute of graduate student and research (IGSR) Alexandria University. 2008
- **“Genetics Engineering”** 13-15 May, achieved in institute of graduate student and research (IGSR) Alexandria University, 2006
- **“Protein analysis”** 19-21 May, achieved in institute of graduate student and research (IGSR) Alexandria University, 2006
- **“Gel electrophoresis”** 12-16 February achieved in Faculty of Agriculture, Cairo University.2005
- **“Gene bank activities and data documentation”** from 26/4 to 2/5/2002 in El-Sheikh Zewayed, North Sinai, Egypt. 2002
- **“Principles of Genetics Engineering”** 17-21 March, achieved in institute of graduate student and research (IGSR) Alexandria University. 2000

THESIS UNDER SUPERVISION:

Current graduate student

M.Sc. thesis:

2012: Ehab Abdall Salama: *In vitro* somatic embryogenesis and genetic analysis of some Egyptian wheat cultivar, expected graduate date 2014

2012: Asmaa Sabrey Kharaz: Production of Pure Lines of Sugar Beet via Tissue Culture Technique, expected graduate date 2014

2011: Rasha Mamdoh Al-Sadaneey: Effect of *Agrobacterium* mediated transformation on rosmarinic acid production in some *Lamiaceae* plants, Alexandria University, Faculty of Agriculture (Saba Basha). Alexandria, Egypt. expected graduate date 2014

2011: Randa Shaban Mohamed: Improvement of the nutritional value of maize crop by using genetic engineering techniques. Alexandria University. Faculty of Agriculture (Saba Basha), Alexandria, Egypt, expected graduate date 2014

2011: Haba Mahmoud Korsh: Genetic improvement of common reed (*Phragmites australis*) for bio-fuel production. Alexandria University. Faculty of Agriculture (Saba Basha), Alexandria, Egypt. expected graduate date 2014

2011: Yasmen Mohamed Abdelsalam: Genetical studies on the wild wheat (*Aegilops ventricosa* Tausch)” Alexandria University. Faculty of Agriculture (Saba Basha), Alexandria, Egypt, (*graduated, 2013*)

2011: Amaney Mohmoud Dobeaa: Molecular biology of salt tolerance in olive crop” Alexandria University. Faculty of Agriculture (Saba Basha), Alexandria, Egypt. expected graduate date 2014

Ph.D. thesis:

2012: Gehan Mohamed Kamal El-Din: Genetic Description of Some *Acacia* Species in Egypt” Alexandria University. Faculty of Agriculture (Saba Basha), Alexandria, Egypt, expected graduate date 2013

2012: Nermen Yosef Abass: Molecular biology of salinity stress tolerance in tilapia. Faculty of Agriculture (Saba Basha), Alexandria, Egypt, expected graduate date 2014

2012: Hayam Eid Abdelkader: Producing of new genotypes from sugar beet populations. Faculty of Agriculture (Saba Basha), Alexandria, Egypt. expected graduate date 2014

2011: Wafaa Ibrahim Mohamed: Effect of Abiotic Stress on Callus Induction and Plant Regeneration of Sugarcane” Alexandria University. Faculty of Agriculture (Saba Basha), Alexandria, Egypt. expected graduate date 2014

References are available upon request