



Curriculum Vitae

Personal information:

Name: Karm Abdel-Naeem Amein Mohamed

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Current Position: Associate Professor, Genetics Department, Faculty of Agriculture,
Assiut University, Assiut, Egypt.



Educational qualifications:

1. Ph.D. in Agricultural Sciences (Genetics), Faculty of Agriculture, Assiut University, Egypt, 2007.
Thesis title: "Genetic Improvement of Grain Quality in Some Cereal Crops: Protein Quantity and Quality in Wheat (*Triticum aestivum* L.)".
2. M.Sc. in Agricultural Sciences (Genetics), Faculty of Agriculture, Assiut University, Egypt, 2007.
Thesis title: "(Cytogenetical studies on some local chicken strains)".
3. B.Sc. in Agricultural Sciences (Genetics), Faculty of Agriculture, Assiut University, Egypt, 2001. Final graduation grade: Excellent with honor degree.



Academic record:

- 2016 - now: Associate Professor, Genetics Department, Faculty of Agriculture , Assiut University, Egypt.
- 2007 - 2016: Lecturer, Genetics Department, Faculty of Agriculture, Assiut University, Egypt.
- 2001 - 2007: Assistant Lecturer, Genetics Department, Faculty of Agriculture, Assiut University, Egypt.
- 1993 - 2001: Demonstrator, Genetics Department, Faculty of Agriculture, Assiut University, Egypt.

Research interests:

1. Quantitative Genetics and Molecular Plant Breeding.
2. Cytogenetics and Animal Genetics

Research experience:

1. Experience in the molecular analyses of plants including DNA isolation, agarose and polyacrylamide gel electrophoresis, capillary electrophoresis, acquisition of images by gel documentation system, analysis of electrophoretic profiles, genotyping and development of molecular markers.
2. Understanding principles of plant breeding (conventional and molecular).
3. Experience in comparing breeding strategies and in methods of genetic prediction and their application to breeding
4. Design efficient breeding strategies utilizing phenotypic and molecular-based selection methods, focusing on grain crops.
5. Setting up and managing field trials in different environmental conditions, including greenhouses and experimental fields.



6. Skills in quantitative genetics, statistical analysis and interpretation of genetic data from plant populations.
7. Communicate plans and results with other investigators in molecular breeding programs.
8. Ability to work both independently and as a part of a multi-disciplinary research team.

Skills:

1. The Mother Tongue: Arabic
2. The Foreign Languages: English.
3. Computer:
 - International Computer Driving License (ICDL).
 - Programs for writing, graphics, spreadsheets and data analysis (MSTAT, SPSS, SAS, NTSYS, Photoshop, Microsoft Word, Excel, Power Point).
 - Front Page and PC maintenance.
 - Software for genetic analyses (GeneMapper, JoinMap, MapQTL and GGT 2.0 for Graphical genotypes).

Teaching experience:

1. Teaching Undergraduate Students of Faculty of Agriculture, Faculty of Science and Faculty of Veterinary Medicine in Assiut University (e.g., Principles of Genetics, Cytogenetics, Population and Quantitative Genetics, Genetics and Cell Biology, Cytology, Human Genetics and Genetic Counselling, Genetics Techniques, and Genetics of Hybrids).
2. Teaching Postgraduate Students of Faculties of Agriculture, Assiut University (e.g., Advanced Population Genetics, Advanced Quantitative Genetics,



Cytoplasmic Genetics, Marker-Assisted Selection and Seminar, Advanced Biochemical Genetics, Physiological Genetics, Mutation Genetics).

Duties and Responsibilities:

1. Training and Supervision of Undergraduate Students in Genetics Department, Faculty of Agriculture during Practical Summer Course.
2. Training and Supervision of Postgraduate Students in Genetics Department, Assiut University during their Master and Doctorate programmes.
3. Examination and Assessment Handbook for Undergraduate and Postgraduate Students of Genetics Department, Faculty of Agriculture, Assiut University.
4. Setting and Following up Research Proposals at Genetics Department as well as Carrying out Field Experiments at the Experimental Field of Faculty of Agriculture, Assiut University.

Publications:

- 1- Salah Fatouh Abou-Elwafa and **Karam A. Amein (2016)**. Genetic Diversity and Potential High Temperature Tolerance in Barley (*Hordeum vulgare*). World Journal of Agricultural Research Vol. 4 (1): pp 1-8.
- 2- Hassan M.I., Mohamed E.A., El-Rawy M.A. and **Amein K.A. (2016)**. Evaluating interspecific wheat hybrids based on heat and drought stress tolerance. J. Crop Sci. Biotechnology, Vol. 19 (1): 85 -98.
- 3-**Amein K.A.**, M.M. Hamdy, Rania A. Abd El-Emam and F.H. Osman **(2016)**. The effect of pioglitazone on genomic instability in induced rats. Research Journal of Applied Biotechnology (in press)
- 4-Rhab M.M. Habiba, M.H. Abd El-Aziz and **K.A. Amein (2016)**. Evaluation of gene action for several important traits in some crosses of canola (*Brassica napus* L.) using generation mean analysis. Assiut Journal of Agriculture Science, Vol 47 (3): pp9-23



- 5-M. Youssef, R.A. Ibrahim and **K.A. Amein (2015)**. Comparison of phenotypic and molecular assessment of genetic diversity in Guava. *Acta Horticulturae*, Vol. 1100: 115-120.
- 6-Amer F. Mahmoud, Mohamed I. Hassan, and **Karam A. Amein (2015)**. Resistance Potential of Bread Wheat Genotypes Against Yellow Rust Disease Under Egyptian Climate. *The Plant Pathology Journal*. Vol.31:402-413 (Impact Factor: 0.92).
- 7-**Karam A. Amein**, Moustafa M. Hamdy, Rania A. Abd El-Emam and Fikry H. Osman (**2015**). Assessment of Genetic Damage in Diabetic Rats Treated with Insulin Glargine. *Med. J. Cairo Univ.*, Vol. 83(1): 651-661
- 8-**Karam A. Amein** and H.M. El-Aref (**2015**). Genetic variability and relationships among sugarcane varieties based on TRAP markers of stress tolerance candidate genes and some agronomic traits. *J. Agric. Chem. and Biotechn. Mansoura University*, vol. 11(6): (545-557)
- 9-Naheif E. M. Mohamed, Alaa A. Said and **Karam A. Amein (2013)**. Additive main effects and multiplicative interaction (AMMI) and GGE-biplot analysis of genotype \times environment interactions for grain yield in bread wheat (*Triticum aestivum* L.). *African Journal of Agricultural Research* Vol. 8(42), pp. 5197-5203.
- 10-Haridy, A.¹ G.H and **Amein, K.A. (2011)**. The Inheritance of Some Agronomical Traits, Protein Content and Seed Beetle (*Callosobruchus maculatus* Fab.) Infestation in Faba Bean (*Vicia Faba* L.). *Australian Journal of Basic and Applied Sciences*,5(6): 1215-1222.
- 11-Heidi.I.G. Abo-Elnaga and **Karam A. Amein (2011)**. Differentiation in Protein Patterns in *Fusarium* Sp. Causing Root Rot and Damping off Diseases in Sugar Beet and Wheat and Their Relation to Pathogenicity. *Australian Journal of Basic and Applied Sciences*, 5(9): 683-692.



- 12-Mohamed, N.A.; N.T. Hamdoon; E.N. El-Sayed, **K.A. Amein (2001)**. Spontaneous rate of sister chromatid exchanges (SCEs) in mitotic chromosomes of five chicken (*Gallus domesticus*) strains, Assiut J. Agric. Sci., Vol. 32 - No. 3, pp. 115-123.
- 13-Mohamed, N.A.; N.T. Hamdoon; E.N. El-Sayed, **K.A. Amein (2001)**. Conventional and GTG-banded karyotypes of macro-chromosomes of five local chicken strains, Assiut J. Agric. Sci., Vol. 32 - No. 3, pp. 125-134.
- 14-Mohamed, N.A.; E.N. El-Sayed; N.T. Hamdoon, **K.A. Amein (2001)**. Chicken strains identification using SDS-PAGE protein and RAPD-PCR markers. Assiut J. Agric. Sci., Vol. 32 - No. 3, pp. 101-114.