

# Curriculum Vitae

## Personal Data:

**Name:** Dr. Talaat Bashandy Ahmed

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**Sex:** Male | **Date of birth:** October 29, 1975 (Balat, the New Valley, Egypt) | **Nationality:** Egyptian.

**Current Job:** Assistant professor at Genetics Department, Agriculture Faculty, New Valley University, Egypt.



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## Scientific qualification:

- 2007- 2010      **Ph.D. degree**, titled “ Analysis of a double thioredoxin reductase mutant in *Arabidopsis thaliana*: Study of functional redundancies between dithiol/disulfide regulations pathways ”, laboratoire de Génome et Développement des Plantes, Perpignan University, Perpignan, France.
- 2004              **Master’s degree (MSc.)**, titled “Genetic Studies on *In Vitro Bread Wheat Tissue Culture*”, Agriculture Faculty, Minia University, El-Minia, Egypt.
- 1998              **Bachelor’s degree (BSc.)**, Genetics Department, Agriculture Faculty, Assiut University, Egypt.  
Final graduation grade: Very Good with honor degree.

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## Grants:

18/02 to 17/08 / 2013 Post-doc., in molecular biology, laboratoire de Génome et Développement des Plantes, Perpignan University, Perpignan, France.

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## Awards:

Publications Award at Misr El Kheir Foundation in 2012.

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## Professional academic career:

- December, 2016 to date: **Assistant professor**, Genetics Department, Agriculture Faculty, New Valley University, Egypt.
- August, 2012- December, 2016: **Lecturer**, Genetics Department, Agriculture Faculty, New Valley University, Egypt.
- April, 2011-July, 2012: **Lecturer**, Genetics Department, Agriculture Faculty, South Valley University, Qena, Egypt.
- May, 2005-March, 2011: **Assistant Lecturer**, Genetics Department, Agriculture Faculty, South Valley University, Qena, Egypt.
- 1999- April, 2004: **Demonstrator**, Genetics Department, Agriculture Faculty, South Valley University, Qena, Egypt.

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## Experience:

### **A- Participate in the following Conferences and symposiums:**

- 1- The 1<sup>st</sup> Conference of the universities of Upper Egypt themes "Towards a plan of Sustainable Development in Upper Egypt ". Field evaluation and molecular analysis of some Bread Wheat gametoclones and somaclones under natural heat stress. March 11-13, 2019, Luxor, **Egypt**.
- 2- 16<sup>th</sup> Scientific Conference for Animal Feeding. Comparative study on molecular variability, physiological responses and productivity performance between Egyptian baladi and boer goats under subtropical conditions as affected by *alfalfa* feeding. November 27 - December 2, 2017, Luxor and Aswan, **Egypt**.
- 3- The second International Conference on Biotechnology and Environmental Safety. May 6-8, 2014, National Research Centre, Cairo, **Egypt**.
- 4- The first International Conference "Food and Agriculture: New Approaches". December 2-4, 2013, National Research Centre, Cairo, **Egypt**.
- 5- ICABBBE 2012: International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering. The role of NADP-Linked Thioredoxin and glutathione on the auxin response in *Arabidopsis*. November 14-16, 2012, Venice, **Italy**.
- 6- 20<sup>th</sup> International Conference on Plant Growth Substances. Interplay between Redox and Auxin signaling in *Arabidopsis*. 28<sup>th</sup> June to 2 July 2010. University of Rovira i Virgili, Tarragona, **Spain**.
- 7-Redoxins 2009 meeting, Interplay between NTR/TRX and GSH thiol reductions systems and auxin signaling, August 19-21, 2009, Perpignan, **France**.
- 8- 2<sup>nd</sup> languedoc Roussillon-Catalogne meeting on plant integrative biology: Molecular and genetic aspects on plant development and their response to stress, Interplay between thioredoxin and glutathione pathways in plant development, March 5-6, 2009, Roses, **Spain**.
- 9- International symposium "Glutathione and related thiols in microorganisms and plants", August 26-29, 2008, Faculté de pharmacie de Nancy, **France**,  
<http://www.thiolmicrob.uhp-nancy.fr>
- 10- 1<sup>st</sup> languedoc Roussillon-Catalogne meeting on plant integrative biology: Molecular and genetic aspects on plant development and their response to stress, Banyules sur mer, December 3-4, 2007, **France**.
- 11- The International Conference of Genetic Engineering & its Applications, April 8-11, 2004, Sharm El-Sheikh, **Egypt**.

### **B- Training courses:**

- 1- Workshop on data management using endnote X7 software. Organized by National Research center, Cairo, Egypt. May 8, 2014.
- 2- Training course to learn "Redox proteomic techniques", in Bob B Buchanan laboratory, Department of plant and Microbial Biology, University of California, Berkeley, USA. From June 22 to July 31, 2009.
- 3- Introduction to molecular biology techniques, Organized by The Agricultural Genetic Engineering Research institute (AGERI), Egypt. From April 17 to April 28, 2004.

**C- Teaching of genetic courses** for undergraduate students of Agriculture, Veterinary, Science and Education Faculties (from 1999 till now).

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### **PUBLICATIONS:**

- 1- Anwer, A.M., Ibrahim, K.M. and **Bashandy, T.** (2021). Evaluating heat stress tolerance and molecular relationship among inbred lines of maize during early generations. SVU-International Journal of Agricultural Sciences, 3(4): 30-40.
- 2- Ferweez, H. and **Bashandy, T.** (2021). Screening for drought tolerance and molecular

variability among some sugar beet cultivars. SVU-International Journal of Agricultural Sciences, 3(4): 20-29.

**3- Bashandy, T.,** and El-Shaieny, A.H.A. (2021). Morphological and molecular marker screening for drought tolerance in Egyptian Jew's Mallow (*Corchorus olitorius* L.) landraces. Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis, 69(1): 79-89, 2021.

**4- Bashandy, T.,** Hussein A., Solma, M., Kassab, A., and Hamdon, H. (2020). Molecular evaluation of three populations of Farafra sheep in comparison to Ossimi and Rahmani sheep breeds. Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis, 68(6): 929-936.

**5-Bashandy, T.,** Kamel, S., and Ferweez, H. (2020). Evaluation of yield, fruit quality and molecular diversity for three grape cultivars under New Valley conditions. Journal of Agricultural Chemistry and Biotechnology, Mansoura University, 11(7), 229-233.

**6- Hassan M.S. and Bashandy T.** (2019). Field Evaluation and Molecular Analysis of Three Early Flowering Canola Mutants under Natural Salinity-Stressed Environment. J. Agric. Chem. and Biotechn. Mansoura University, 10(10): 203-208.

**7- Huang J., Niazi A.K., Young D., Rosado L.A., Vertommen D., Bodra N., ... and Bashandy T.** (2018). Self-protection of cytosolic malate dehydrogenase against oxidative stress in Arabidopsis. Journal of experimental botany, 69(14), 3491-3505.

**8- Mutawe A.A., Omara M.K., Amein K.A., and Bashandy T.** (2018). Response to Selection for Grain Filling Capacity in Wheat (*Triticum aestivum* L.) under Heat Stress. Journal of Agricultural Chemistry and Biotechnology, 9(4), 105-110.

**9- Bashandy T. and Reichheld J-P.** (2016). Down-regulation of *NTR* Genes by RNAi in the *cad2* mutant impairs plant development of *Arabidopsis thaliana*. Egypt. J. Genet. Cytol., 45: 235-244.

**10- Bashandy T. and Hassan M.S.** (2016). Field evaluation and molecular analysis of some bread wheat gametoclones and somaclones under natural heat stress. Minia J. of Agric. Res. & Develop., 36 (3): 501-517.

**11- Bashandy T.** (2016). Assessment of genetic diversity among Egyptian sorghum landraces for grain yield variability using ISSR markers analysis. J. Agric. Chem. and Biotechn. Mansoura University, 7(10): 263-267.

**12- Bashandy T. and El-Shaieny A.A.H.** (2016). Screening of Cowpea (*Vigna unguiculata* 2-L. Walp) genotypes for salinity tolerance using field evaluation and molecular analysis. J. Agric. Chem. and Biotechn. Mansoura, 7(9): 249-255.

**13- Bashandy T.** (2016). Assessment of molecular diversity and tolerance of increased salinity levels in irrigation of barley seedlings. J. Agric. Chem. and Biotechn. Mansoura University, 7(9): 257-261.

**14- Belin C., Bashandy T., Cela V., Delorme-Hinoux J., Riondet C. and Reichheld J. P.** (2015). A comprehensive study of thiol reduction gene expression under stress conditions in *Arabidopsis thaliana*. Plant Cell and Environment, 38: 299-314.

**15- Bashandy T., Meyer Y. and Reichheld J-P.** (2011). Redox regulation of auxin signaling and plant development in *Arabidopsis*. Plant Signal Behav., 6 (1): 117-119.

**16- Bashandy T., Guilleminot J., Vernoux T., Caparros-Ruiz D., Ljung K., Meyer Y. and Reichheld J-P.** (2010). Interplay between the NADP-linked thioredoxin and glutathione systems in *Arabidopsis* auxin signaling. Plant Cell, 22: 376-391.

**17- Reichheld J-P., Bashandy T., Siala W., Riondet C., Vignols P. and Meyer Y.** (2009). Redundancy and Crosstalk Within the Thioredoxin and Glutathione Pathways: A New Development in Plants. Advances in Botanical Research, 52: 253-276.

- 18- Bashandy T.**, Taconnat L., Renou J.P, Meyer Y. and Reichheld J-P. (2009). Accumulation of flavonoid in *ntra ntrb* mutant leads to tolerance to UV-C. *Molecular Plant*, 2: 249-258.
- 19- Meyer Y.**, Wafi S., **Bashandy T.**, Ridnet C., Vignols F. and Reichheld J-P. (2007). Thioredoxins and Glutaredoxins in Plants. *BBA-Molecular Cell Research*, 1783(4): 589-600.
- 20- El-Sherbeny G. A. R.**, Ahmed K. Z., Ragab R. A. and **Bashandy T.** (2005a). Response of Egyptian bread wheat to *in vitro* techniques I- Immature Embryos Culture and Plant Regeneration. *Assiut J. Agric. Sci.*, 36: 73-89.
- 21- El-Sherbeny G. A. R.**, Ahmed K. Z., Ragab R. A. and **Bashandy T.** (2005b). Response of Egyptian bread wheat to *in vitro* techniques II- Isozyme Studies in Callus Cultures and Regenerated plants. *Assiut J. Agric. Sci.*, 36: 91-105.
- 22- Ahmed K. Z.**, El-Sherbeny G. A. R., Ragab R. A. and **Bashandy T.** (2005). Response of Egyptian Bread Wheat to In Vitro Techniques III- Immature inflorescences culture and Plant regeneration. In Proceeding of The 7th Conference of the African Crop Science Society, 5 to 9 December 2005.
- 23- Ahmed K. Z.**, El-Sherbeny G. A. R., Ragab R. A. and **Bashandy T.** (2004). Optimization of conditions for regeneration, DNA delivery and transient GUS expression in mature embryos of elite Egyptian bread wheat cultivars using *Agrobacterium tumefaciens* mediated transformation system. In Proceeding of the International Conference of Genetic Engineering & its Applications, 8-11 April 2004, Sharm El-Sheikh, Egypt, pp: 87-101.