

### *Personal Information:*

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**Name:** El-sayed Mohamed El-sayed Nishawy Saleh

**Date of Birth:** 1982/10/20

**Place of Birth:** Abohamad and Sharkia governorate

**Work Address:** Lecturer at National Key Laboratory of Genetic Improvement and National Center of Plant Gene, Huazhong Agricultural University, Wuhan 430070, China.

**Citizenship:** Egyptian

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### *Postdoctoral Positions:*

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. 2016 to 2017, National Key Laboratory of Genetic Improvement and National Center of Plant Gene Research Postdoctoral Fellow, Huazhong Agricultural University, Wuhan 430070, China.

### *Education Background:*

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- . Huazhong Agricultural University. Ph.D. Pomology, 2015.
- . Suez Canal University, Ismailiah, November 2008. Ms.c. Plant Production, 2008.
- . Suez Canal University, Ismailiah, November 2005. Diploma. Plant Production.
- . Suez Canal University, Ismailiah, July 2003. Bs.c. Plant Production, 2003.

### *Employment Positions:*

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*2016 to present Postdoctoral Fellow Metabolism Group*, National Key Laboratory of Crop Genetic Improvement and National Center of Plant Gene Research, **Huazhong Agriculture University, Wuhan, China**

*2016 Lecture (Researcher)* **Genetic department, Desert Research Center (DRC), Cairo, Egypt.**

*2010-2015 Assistant researcher* **Genetic department, Desert Research Center (DRC), Cairo, Egypt.**

### ***SELECTED SKILLS & TECHNIQUES:***

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#### **Molecular Biology Techniques:**

- RNA and DNA isolation • cDNA library construction and screening
- DNA sequencing • polyA+ RNA selection • 5' and 3' RACE
- Northernblots • cDNAsynthesis • PCR, primer construction and cloning
- Southernblots • CRISPR-Cas9

#### **Protein Biochemistry Techniques:**

- Protein isolation • Protein gel electrophoresis • Protein expression
- Western and dot blotting • Enzyme assay • GC-MS/ LC-MS/ HPLC

#### **Bioinformatics:**

• Transcriptome analysis •Comparative genome analysis• GenBank searching: BLAST, PSIBLAST, and PHI-BLAST • multiple sequence alignments • tree building using dnaml and PHYLIP • genome trace archive usage • protein sequence analysis tools: wide use of ExPASy web site

**Computer Skills:**

Word processing, spreadsheets, databases, design, web publishing and HTML.

**Leadership:** Exceptional communication, organizational, public speaking and mentoring skills.

**Language:**

English/French and conversational in Chinese.

***Honors / Awards:***

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China Scholarship Council (CSC) for PhD at 2010.

*Publication:*

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1. Raheel Shahzad, Mohamed Ewas, Putri Widyanti Harlina, **Elsayed Nishawy**, Mohamed Ayaad, Abdul Manan, Mohamed Maher and Eman Khames. 2020. Full Length Article Multiple Stress Responsive WRKY Transcription Factor, StWRKY2, Enhances Drought and Late Blight Resistance in Transgenic Potato. INTERNATIONAL JOURNAL OF AGRICULTURE & BIOLOGY. 19–1182. 24(1): 154–164. DOI: 10.17957/IJAB/15.1419 <http://www.fspublishers.org> .
2. Meng Peng, Raheel Shahzad, Ambreen Gul, Hizar Subthain, Shuangqian Shen, Long Lei, Zhigang Zheng, Junjie Zhou, Dandan Lu, Shouchuang Wang, **Elsayed Nishawy**, Xianqing Liu, Takayuki Tohge, Alisdair R. Fernie , Jie Luo. Differentially evolved glucosyltransferases determine natural variation of rice flavone accumulation and UV-tolerance. Nature Communications. doi:10.1038/s41467-017-02168-x
2. Mohamed Ewas, Khames Eman, Khurram Ziaf, Raheel Shahzad, **Elsayed Nishawy**, Farhan Ali, Mohamed Hamdy Amar, Mohammed Ayaad, Omran Ghaly, Jie Luo. The Tomato DOF Daily Fluctuations 1, TDDF1 acts as flowering accelerator and protector against various stresses. Scientific Report. doi: 10.1038/s41598-017-10399-7.

3. Mohamed Ewas, Yanqiang Gao, Shouchuang Wang, Xianqing, Liu, Hongyan Zhang, **Elsayed Nishawy**, Farhan Ali, Raheel Shahzad, Khurram Ziaf, Hizar Subthain, Cathie Martin, Jie Luo. RNA-seq reveals mechanisms of SIMX1 for enhanced carotenoids and terpenoids accumulation along with stress resistance in tomato. *Science Bulletin*. 62(7): 476-485.
4. Raheel Shahzad, Putri Widyanti Harlina, Xie Cong-hua, Mohamed Ewas, **ElsayedNishawy**, Pan Zhenyuan, Moatzbellah Mohamed Foly. Overexpression of potato transcription factor (StWRKY1) conferred resistance to Phytophthora infestans and improved tolerance to water stress. *Plant Omics*, 2016, 9(2):149-158.
5. Mohamed Ewas, Yanqiang Gao, Shouchuang Wang, Xianqing, Liu, Hongyan Zhang, **ElsayedNishawy**, Farhan Ali, Raheel Shahzad, Khurram Ziaf, Hizar Subthain, Cathie Martin, Jie Luo. Manipulation of tomato SIMX1 for enhanced carotenoids accumulation and drought resistance in tomato. *Science Bulletin*. 61 (18), 1413–1418.
6. **ElsayedNishawy**, Xiaohua Sun, Mohamed Ewas, Khurram Ziaf, Rangwei Xu, Dan Wang, Mohamed Amar, Yunliu Zeng, Yunjiang Cheng, Overexpression of Citrus grandis DREB gene in tomato affects fruit size and accumulation of primary metabolites, *Scientia Horticulturae*, 2015, 192, 460-467.
7. Sun Xiaohua, Zhu Andan, Liu Shuzhen, Sheng Ling, Ma Qiaoli, Zhang Li, **Elsayed M. E. Nishawy**, Zeng Yunliu, Xu Juan, Ma Zhaocheng, Cheng Yunjiang, Deng Xiuxin, Integration of metabolomics and subcellular organelle expression microarray to increase understanding the organic acid changes in post-harvest citrus fruit, *Journal of Integrative Plant Biology*, 2013, 55(11):1038-1053.
8. Raheel Shahzad, Mohamed Ewas, Putri Widyanti Harlina, **Elsayed Nishawy**, Mohamed Ayaad, Abdul Manan, Mohamed Maher and Eman Khames. Multiple Stress Responsive WRKY Transcription Factor, StWRKY2, Enhances Drought and Late Blight Resistance in Transgenic Potato. *Int. J. Agri. Biol.* 1814–9596.

## *Projects and funding:*

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1. National Natural Science Foundation of China (NSFC). International (Regional) Cooperation and Exchange Program (The Research Fund for International Young Scientists). Grant number: 31850410473. Principle Investigator (PI). 2019.01.01 to 2020.12.31.
2. Cooperative research projects between National Natural Science Foundation of China (NSFC) and Egyptian Academy of Science and Technology (ASRT). International (Regional) Cooperation and Exchange Program. Grant Number: 3191101669. Project Main member. 2020. Jan.01 to 2022. Dec. 31.

## *Position*

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Talented Young Scientist Researcher in China, Huazhong Agricultural University.  
Genetic analysis of brown rice water soluble vitamins. Position Number: P170U4986. 2019.01.01 to 2019.12.31

## *Personal website*

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1. <https://scholar.google.com.hk/citations?user=86v6VdYAAAAJ&hl=en>
2. [https://www.researchgate.net/profile/Elsayed\\_Nishawy2?ev=hdr\\_xprf&\\_sg=P\\_h9VMMbecAWxno7BTKfntcESFTGGp7znPbTFeH4LVuskb2LUCj9UvE6Ys\\_hwjAZJCprdDzm3xqUgttrwHWim78dW](https://www.researchgate.net/profile/Elsayed_Nishawy2?ev=hdr_xprf&_sg=P_h9VMMbecAWxno7BTKfntcESFTGGp7znPbTFeH4LVuskb2LUCj9UvE6Ys_hwjAZJCprdDzm3xqUgttrwHWim78dW)

## **Founder Organizations**



国家自然科学基金委员会  
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