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Prof. Biochemistry and Molecular Biology

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EXPERIENCE

6/2006- 2/2007: Visiting Scientist, Plant Biotechnology and Genome Core-Facility, Southern Illinois University, Carbondale, IL 62901- 4415, USA.

Duties and Research Interest: Functional Genomics of R genes and Metabolomics Techniques. Prepare reports, manuscripts and presentation.

EDUCATION

***Ph.D. (Agriculture, Genetic Engineering), March 2006-** Hiroshima Univ., JAPAN

***Ph.D. (Biochemistry) September 1996-** University of Cairo, EGYPT

***M.Sc (Biochemistry) September 1992-** University of Cairo, EGYPT

***B.Sc. (Biochemistry) with Honor, June 1988-** University of Cairo, EGYPT

International Peer-reviewed Journals (recent years)

- 1) **El-Shemy, H. A.**, Ahmed M. Aboul-Enein, Khalid M. I. Aboul-Enein and K. Fujita 2007: Willow leaves extracts contains anti-tumor agents effective against three cells types. *PLoS ONE* . **2 (1)**: e178..
- 2) **El-Shemy H. A.**, Khalafalla, Mutasim, and Ishimoto, Masao. (2008) Green Fluorescent Protein (GFP) in Vector Systems Played Sense Role of Epigenetic in Plants . *Nature Precedings* <<http://hdl.handle.net/10101/npre.2008.1845.1>>
- 3) **El-Shemy H. A.**, Mutasim M. Khalafalla and Masao Ishimoto (2009) Green Fluorescent Protein (GFP) in Vector Systems Played Sense Role of Epigenetic in Plants . *Curr. Issue Mol. Biol.* 11: 21-28.
- 4) Eman A. Mahmoud, Solliman M. Mohei El-Din, Mourad A. M. Aboul-Soud, Ahmed. A. Aboul-Enein, Ghanem, A. Sobhy and **El-Shemy H. A.** (2009) Cloning of a Novel Antifungal Promoter from *Phaseolus vulgaris* and the Determination of its Activity in Stably Transformed *Nicotiana tabacum* plants. *Curr. Issue Mol. Biol.* 11:55-63.
- 5) MJ Iqbal, R Ahsan, AJ Afzal, A Jamai, Meksem K, **El-Shemy H. A.**, DA Lightfoot (2009) Multigenic QTL: The laccase encoded within the soybean *Rf52/rhg1* locus inferred to underlie part of the dual resistance to cyst nematode and sudden death syndrome. *Curr. Issue Mol. Biol.* 11: 11-19.
- 6) Karangula UB, MA Kassem, L Gupta , **El-Shemy H. A.**, DA Lightfoot (2009) Locus Interactions Underlie Seed Yield In Soybeans Resistant to *Heterodera glycines*. *Curr. Issue Mol. Biol.* 11:73-84.
- 7) Kotb A. Attia, Amr F. Abdelkhalik, , Megahed H. Ammar, Chun Wei, Jinshui Yang, David A Lightfoot, Wagih M. El-Sayed and **El-Shemy H. A.** (2009) Antisense Phenotypes Reveal a Functional Expression of *OsARF1*, an Auxin Response Factor, in Transgenic Rice. *Curr. Issue Mol. Biol.* 11: 29-34.
- 8) Shima Bahgat , Omer A. Shabban, Osama El-Shify, David. A. Lightfoot and **El-Shemy H. A.** (2009) Establishment the Regeneration System for *Vicia faba*. *Curr. Issue Mol. Biol.* 11: 47-54.
- 9) Mizuki Takagi, **El-Shemy H. A.**, Sachiko Sasaki, Shinichiro Toyama, Syunsuke Kanai, Hirofumi

- Saneoka and Kounosuke Fujita (2009) Elevated CO₂ concentration alleviates salinity stress in tomato plant. *Acta Agriculture Plant Soil B* 59: 87-96.
- 10) Mourad Aboul-Soud and **El-Shemy H. A.** (2009) Identification and subcellular localization of SI: INT7: A novel tomato fruit ripening related and stress inducible gene. *Plant Science* 176: 241-147.
- 11) Abhijit Shukla, Aparna Natarajan, Sukesh Bhaumik, **El-Shemy H. A.**, DA Lightfoot (2009) The Interactions of the Largest Subunit of RNA Polymerase II with Other Cellular Proteins: a Bioinformatic Approach. *Curr. Issue Mol. Biol.* 11:55-71.
- 12) Afzal AJ, A Natarajan, N Saini, M J Iqbal, MA Geisler, **H El - Shemy**, R Mungur, L Willmitzer and DA Lightfoot. 2009. The nematode resistance allele at the rhg1 locus alters the proteome and metabolome of soybean roots. *Plant Physiology* 151: 1264-1280.
- 13) Kenji Kanemoto , Yumiko Yamashita , Tomoko Ozawa , Naomi Imanishi , Nguyen Tran Nguyen ,Ryuichi Suwa , Pravat Kumar Mohapatra , Syunsuke Kanai , Reda E. Moghaieb , Junki Ito ,**Hany El-Shemy** , Kounosuke Fujita (2009) Photosynthetic acclimation to elevated CO₂ is dependent on N partitioning and transpiration in soybean. *Plant Science* 177: 398-403.
- 14) Mutasim M. Khalafalla, Eltayb Abdellatef, Hussein M. Daffalla, Amr A. Nassrallah, KhalidM. Aboul-Enein, David A. Lightfoot, Alan Cocchetto5 and **Hany A. El-Shemy** (2009) Antileukemia activity from root cultures of *Vernonia Amygdalina*. *Journal of Medicinal Plants Research* 3(8): 556-562.
- 15) Hamdy A.A. Aly, David A. Lightfoot, **Hany A. El-Shemy** (2009) Modulatory role of lipoic acid on lipopolysaccharide-induced oxidative stress in adult rat Sertoli cells in vitro. *Chemico-Biological Interactions* 182: 112–118.
- 16) Amr A. Nassr-Allah, Ahmed M. Aboul-Enein, Khalid M. Aboul-Enein, David A. Lightfoot, Alan Cocchetto and **Hany A. El-Shemy** (2009) Anti-cancer and anti-oxidant activity of some Egyptian medicinal plants. *Journal of Medicinal Plants Research* 3(10): 799-808.
- 17) M. M. Khalafalla, H. M. Daffalla, **H. A. El-Shemy** and E. Abdellatef (2009) Establishment of *in vitro* fast-growing normal root culture of *Vernonia amygdalina* - a potent African medicinal plant. *African Journal of Biotechnology* 8 (21): 5952-5957.
- 18) Masao Ishimoto , Shaikh M. Rahman , Moemen S. Hanafy Mutasim M. Khalafalla , **Hany A. El-Shemy**, Yumi Nakamoto ,Yoichi Kita , Kojiro Takanashi Fumio Matsuda, Yoshihiro Murano ,Tomoko Funabashi ,Hisashi Miyagawa, Kyo Wakasa (2010) Evaluation of amino acid content and nutritional quality of transgenic soybean seeds with high-level tryptophan accumulation. *Molecular Breeding* 25: 313-326.
- 19) **H.A. El-Shemy**, M.A.M. Aboul-Soud, A.A. Nassr-Allah, K.M. Aboul-Enein, A. Kabash and A. Yagi5 (2010) Antitumor Properties and Modulation of Antioxidant Enzymes' Activity by *Aloe vera* Leaf Active Principles Isolated by Supercritical Carbon Dioxide Extraction. *Current Medicinal Chemistry*, 17. 129-138.
- 20) Ryuichi Suwa, Hiroaki Hakata, Hiromichi Hara, **Hany A. El-Shem**, Joseph J. Adu-Gyamfi, Nguyen Tran Nguyen, Synsuke Kanai , David A Lightfoot, Pravat K. Mohapatra and Kounosuke Fujita. (2010) High temperature effects on photosynthate partitioning and sugar metabolism during ear expansion in maize (*Zea mays L.*) genotypes. *Plant Physiology and Biochemistry* 48: 124-130.
- 21) Hamdy A.A. Aly, David A. Lightfoot, **Hany A. El-Shemy** (2010) Bacterial lipopolysaccharide-induced oxidative stress in adult rat Sertoli cells in vitro. *Toxicology In-Vitro* In Press.