



Curriculum Vitae

Hany A. El-Shemy, Ph.D.

Prof.

**Biochemistry and Molecular Biology
Director of Biotechnology Labs (FARP)**

Biochemistry Department

Faculty of Agriculture

Cairo University

12613 Giza

Egypt

Tel:+20-2-3774-2600

Fax:+20-2-3571-7355

Mobile phone: 012-4041171

E-Mail: helshemy@hotmail.com

NAME: Hany A. El-Shemy.

DATE OF BIRTH: April 16, 1966.

Sex : Male

Marital Status: Married (three daughters, 1y, 11y and 13y).

Knowledge Of Languages: (Arabic, mother tongue), (English, fluency spoken and Written) and (Japanese, good).

CAREER OBJECTIVE

To acquire a challenging position in research and / or teaching leader in research and teaching programs. Trainee in Faculty Leadership Development Project, in the field of preparing manuscripts and writing proposals.

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.

2005- 3/2006: Researcher, National Agriculture Research Center for Western Region (WeNARC), Plant Biotechnology Laboratory, Nishifukatsu 6-12-1Fukuyama

Hiroshima 721-8514, JAPAN

Duties and Research Interest : Use of molecular biology and proteomics techniques to improve the protein quality of wheat and barley as well as genomics function of chilens (Bio-informatics). Prepare reports, manuscripts and presentation.

2001-2003: Researcher, National Agriculture Research Center for Western Region (WeNARC), Plant Biotechnology Laboratory, Nishifukatsu 6-12-1Fukuyama

Hiroshima 721-8514, JAPAN

Duties and Research Interest : Use of molecular biology techniques to improve the protein quality especially sulphur amino acids such as methionine as well as essential amino acids tryptophan and lysine of legumes (soybeans, azuki bean). Prepare reports, manuscripts and presentation.

1999-2001: Researcher, Plant Physiology and Molecular

Biology Department,

Faculty of Applied Biological Science, Hiroshima University,

I-4-4 Kagamiyama, Higashiroshima, 739-8528 JAPAN.

Duties and Research Interest : Use of molecular biology techniques to improve the protein quality of legumes.

Isolation and identification of plant proteins from grain and leaves of some crops.

1998. Researcher, Lab of Young Living Essential Oils, 250 S.

Main St., Payson, UT 84651 USA.

Duties: Isolation and identification the essential oils.

3/2007- present: Professor. Biochemistry Department, Cairo Univ.,

Faculty of Agriculture, 12613 Giza, EGYPT.

Duties and Research Interest : Use of molecular biology techniques to improve the nutritional quality of faba bean , wheat and barley.

Teaching of Biochemistry and Molecular Biology for junior and senior Agriculture Biotechnology majors; grading exams and quizzes. Prepare reports, manuscripts and presentation.

2002-2007: Associate Prof. Biochemistry Department, Cairo Univ.,

Faculty of Agriculture, 12613 Giza, EGYPT.

Duties and Research Interest : Use of molecular biology techniques to improve the nutritional quality of faba bean , wheat and barley.

Teaching of Biochemistry and Molecular Biology for junior and senior Agriculture Biotechnology majors; grading exams and quizzes. Prepare reports, manuscripts and presentation.

1996-2002 Lecturer, Biochemistry Department, Cairo Univ., Faculty of Agriculture, 12613 Giza, EGYPT.

Duties and Research Interest : Use of molecular biology techniques to improve the nutritional quality of faba bean. Teaching of Biochemistry for junior and senior agriculture Biochemistry majors; grading exams and quizzes. Prepare reports, manuscripts and presentation.

1992-1996. Graduate Teaching Assistant, Biochemistry Department, Cairo Univ., Faculty of Agriculture, 12613 Giza, EGYPT.

Duties: (1) Conducted experiments on nutritional quality of plant foods; isolation, identification and quantitative analysis of the anti-nutritional factors phytic acid, tannin and trypsin inhibitors in legumes. (2) Design maintenance, analysis, and data interpretation of field and laboratory experiments. (3) Prepare reports, manuscripts and presentation. (4) Assisted in teaching of Biochemistry classes; maintained laboratory supplies and reagents.

1988-1992. Graduate Research Assistant, Biochemistry Department, Cairo Univ., Faculty of Agriculture, 12613 Giza, EGYPT.

Duties: (1) Conducted experiments on the potential of *S. Safsaf* Leaves extracts as antileukemic and anticarcinogenic agents. (2) Main tained laboratory supplies and reagents; dealt with vendors and safety personal. (3) Assisted in teaching of Biochemistry for agriculture biochemistry majors; trained student workers and technicians.

EDUCATION

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

Thesis title: "Studies on analysis of factors controlling protein production in terms of plant nutritional physiology and plant molecular biology"

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

Thesis title: " Biochemical Studies on Some Antinutritional Factors"

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

Thesis title: " Biochemical Studies on The Leaves of *Salix Safsaf*"

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

AWARDS AND HONORS

- * **ABDUL HAMEED SHOMAN PRIZE FOR THE YOUNG ARAB RESERACHERS IN AGRICULTURAL SCIENCE 2005, JORDAN.**

- * **State Prize (EGYPT), 2004, Agriculture Biotechnology, Academy of Science and Technology, EGYPT.**
- * **University Prize (Cairo University), 2006, EGYPT.**
- * **Visiting Scholar, Plant Biotechnology and Genome Core-Facility, Southern Illinois University, Carbondale, IL 62901- 4415, USA.**

- * **JSPS invitation Fellowship June, 2005- March 2006, JAPAN.**

- * **Biovision Nxt. Fellowship for BioVision 2005, Lyon 9-15, FRANCE.**

- * **Full Travel Bursary from The International Genetics Federation to attend the XIX International Congress of Genetics to be held in Melbourne, Australia from 6-11 July 2003, and present a contribution entitled NUTRITIONAL IMPROVEMENT OF PROTEIN CONTENT IN SOYBEAN SEEDS VIA MOLECULAR BIOLOGICAL APPROACHES.**

- * **Postdoctoral Fellowship (STA) Japan International Science & Technology Agency , March 2001- 2003. JAPAN**

- * **Postdoctoral Fellowship (JSPS) Japan Society for The Promotion of Science, April 1999- 2001. JAPAN**

- * **Researcher Fellowship (Young Living Essential Oils) July 1998- Utah, USA.**

- * **Scholarship for training “ Analysis in Food,” C.M.U. (UNESCO), Food Sci. Dept., I.N.N., 1992. ITALY.**

PRACTICAL TRAINING AND SKILIS

- * **Training course on Pollution Prevention Concepts & Application. Conducted by ECEP/EP3 26-27 March, 1997.**
- * **4th Alexander Hollander training course in genetic toxicology, Sept. 15-18, 1997, Egypt.**
- * **Workshop in Electrophoresis techniques for Protein Separation, January 11-12, 1994, Cairo University.**
- * **Analysis in Foods, November 10-14, 1992 Food Science Department, I.N.N., Rome, Italy.**
- * **Microanalysis in Biology, Sept. Oct 1, 1990, Faculty of Science, University of Ain-Shams.**
- * **Skills in GC/MS, HPLC, LPLC, TLC, I.R., Atomic Absorption**

Techniques, Protein Transfer, SDS-PAGE, 2-D gel (proteomics), Amino Acids Sequences, Plant Molecular Biology (gene transfer), and Tissue Culture Techniques.

Cairo Univ., Egypt. Hiroshima Univ., Japan. WeNARC., Japan. INN. Italy and USA Labs.

*Introduction to Bioinformatics, Cairo Univ. & Fulbright&USDA, Feb. 2005.

*Familiar with IBM/ Compatible computer systems; basic softwares and ability to perform statistics.

INTERNATIONAL CONFERENCES

- * Second World Congress of Genes , Dec 5-7, 2008, Foshan, **China**.
- * Desert Technology- 9, Nov. 12- 16, 2008, Douz, **Tunis**.
- * International Workshop on Rice, August 23-25, 2008, Alexandria, **Egypt**.
- * International Symposium on Medicinal plants, August 16-18, 2008, Giza, **Egypt**.
- * Research, Development and Innovation: Biotechnology in Arab World Amman , 3-5 March 2008, **JORDAN**.
- * Plant & Animal Genome XV Conference, Jan. 13-17 /2007, San-Diego , CA, **USA**.
- * Desert Technology-VIII, Nov. 27- Dec.2, 2005, Nasu, **JAPAN**.
- * BioVision 2005, Lyon 9-15 April, 2005, **FRANCE**.
- * XIX International Congress of Genetics, Melbourne, from 6-11 July 2003, **Australia**
- *INTERNATIONAL WORKSHOP ON APPLICATION OF THE MOLECULAR MARKERS IN STUDIES ON PLANTS. WARSAWA 25-29 SEP., 2002, **POLAND**
- * The Pittsburg Conference for Applied Spectroscopy and Analytical Chemistry (PITTCON 2001) The voyage of discovery on March 4-9, 2001 in NEWORLEANS, LA, **USA**.
- *International Maize Genetics and Breeding Symposium, 71-78, Changchun, Sept. 15-17, 2000, **China**
- *X th International Colloquium for the Optimization of Plant Nutrition (IAOPN), 8-13 April, 2000, Cairo, **Arab Republic of Egypt**.
- * The Pittsburg Conference for Applied Spectroscopy and Analytical Chemistry (PITTCON 2000) Science for the 21st Century on March 12-17, 2000 in NEWORLEANS, LA, **USA**.
- * The Pittsburg Conference for Applied Spectroscopy and Analytical Chemistry (PITTCON 99) on March 7-12, 1999 in ORLANDO, FL, **USA**.
- *First International Conferences on Date Palm , on March 8-10, 1998, Al-Ain, **United Arab Emirates**.

*Second International Conferences for Biotechnology, on Oct.18-20, 1998, Cairo, **Egypt**.

SESSION CHAIRS

- * Second World Congress of Genes , Dec 5-7, 2008, Foshan, **China**.
- * Desert Technology- 9, Nov. 12- 16, 2008, Douz, **Tunis**.
- * International Workshop on Rice, Auguat 23-25, 2008,Alexandria, **Egypt**.
- * International Symposium on Medicinal plants, August 16-18, 2008, Giza, **Egypt**.
- * Desert Technology-VIII, Nov. 27- Dec.2, 2005, Nasu, **JAPAN** (Bioprospecting session).
- * The Pittsburg Conference for Applied Spectroscopy and Analytical Chemistry (PITTCON 2001) The voyage of discovery on March 4-9, 2001 in NEWORLEANS, LA, **USA**. (Chromatography session).
- *International Maize Genetics and Breeding Symposium, 71-78.,Changchun, Sept. 15-17, 2000, **China**. (Biotechnology session)

COMMITTEE MEMBERS

- *International Maize Genetics and Breeding Symposium, 71-78.,Changchun, Sept. 15-17, 2000, **China**.
- * Desert Technology-VIII, Nov. 27- Dec.2, 2005, Nasu, **JAPAN**.
- * Desert Technology- 9, Nov. 12- 16, 2008, Douz, **Tunis**.

Section Editor:

PLoS ONE (<http://www.plosone.org>)

ACADEMIC EDITOR:

- PLoS ONE (<http://www.plosone.org>)
- Bioinformatics and Biology Insight
- Curr. Issue Molecular Biology

INTERNATIONAL JOURNAL REVIEWER

- *Journal of Food Composition and Analysis*, FAO, UN, **ITALY**.
- *Biotechnology Progress*, ACS, **USA**.
- *Research Journal of Biological Sciences*, **USA**.
- *Journal of Food Agric. And Environment*. **Finland** (Associate Editor)
- *Cancer Detection and Prevention Journal*, **USA**
- *Theoretical and Applied Genetics* **Germany**.

PROFESSIONAL AFFILIATION

- 1) American Association for the Advancement of Science.
- 2) American Chemical Society (ACS).
- 3) Agriculture Association of Egypt.
- 4) Egyptian Society of Biochemistry.
- 5) Japanese Society of Soil Science and Plant Nutrition.
- 6) Japanese Society of Breeding.
- 7) Japanese Society for Plant Cell and Molecular Biology
- 8) New-York Academy of Science.

REFERENCES

- 1- Prof. David A. Lightfoot
Professor for Biotechnology and Genomics, Department of Plant and Soil Science
Southern Illinois University, Carbondale, Illinois 62901
Telephone (618) 453-1797 Fax (618) 453-7457, E-mail: ga4082@siu.edu
- 2- Dr. E.Carnovale, Professor and Director of the Unit of Food
Chemistry, I.N.N., via-Ardeatina 546, 00179 Rome, Italy. Phon:
+39-6-5032412, Fax: +39-6-5031592. E-mail: carnovale@inn.ingrm.it
- 3- Dr. K. Fujita, Professor and Director of Department of
Environmental Dynamics and Management , Graduate School of
Biosphere Science, Hiroshima University, I-4-4 Kagamiyama, Higashi-
Hiroshima City, 739-8528 Japan, Tel: +81-0824-24-7963, Fax: +81-0824-24-
0791. E-mail: fujiko@hiroshima-u.ac.jp
- 4- Dr. A. Fakhoury, Assistant Prof., Department of Plant and Soil Science
Southern Illinois University, Carbondale, Illinois 62901
Telephone (618) 453-1782, Fax (618) 453-7457, E-mail: amfakhou@siu.edu
- 5- Dr. Abdul-Moneim Afify, Chairman and Professor, Department of
Biochemistry, Faculty of Agriculture, Cairo University, 12613 Giza,
EGYPT. Phone +202-3774-2600, Fax: +202-571-7355.

List of Publications

HANY A. EL-SHEMY, PH.D.

International Peer-reviewed Journals

- 1) Abdel-Rahim, E. A., Abdel-Fatah, O. M., Kobasse, M. I., **El-Shemy, H. A.** and Abdel-Saemei, M. B. 1998: Growth of date palm callus affected by growth regulators, sugars as carbon source and amino acids as nitrogen source. *A. J. Biotechnology*, 1, 99-106.
- 2) **El-Shemy, H. A.** and Fujita, K. 2000: Protein subunits composition in seeds. *Recent Res. Devel. Agriculture & Food Chem.*, 4,27-29.
- 3) **El-Shemy, H. A.**, Abdel-Rahim, E. A., Shaban, O., Ragab, A., Carnovale, E. and Fujita, K. 2000: Determination of chemical analysis and antinutritional factors in some legumes. *Recent Res. Devel. Agriculture & Food Chem.*, 4,31-39.
- 4) **El-Shemy, H. A.**, Abdel-Rahim, E. A., Shaban, O., Ragab, A. and Fujita, K. 2000: Effect of antinutritional factors on some body constituents and enzymes activity of male albino rats. *Recent Res. Devel. Agriculture & Food Chem.*, 4,41-58.
- 5) **El-Shemy, H. A.**, Abdel-Rahim, E. A., Shaban, O., Ragab, A., Carnovale, E. and

- Fujita, K. 2000: Comparison of nutritional and antinutritional factors in soybean and fababean seeds with or without cortex. *Soil Sci. Plant Nutr.* 46, 515-524.
- 6) **El-Shemy, H. A.**, Yamana, H., Saneoka, H. and Fujita, K. 2000: Phylogenetic comparative analysis of storage proteins structure in some legume seeds. *American Biotechnology Laboratory* 18, 60-62.
 - 7) **El-Shemy, H. A.**, Ryu, S. and Fujita, K. 2001: Subunits composition of storage protein in soybean seeds as affected by N application and pod removal.. *American Biotechnology Laboratory* 19, 30-33.
 - 8) **El-Shemy, H. A.**, Ahmed, S. H., Saneoka, H. and Fujita, K. 2001: Differences in composition of glycinin and beta-conglycinin globulins in some legume cultivars. *American Biotechnology Laboratory* 19, 46-48.
 - 9) **El-Shemy, H. A.**, Nishimura, T. and Fujita, K. 2001: Direct sequencing of peptides transferred onto PVDF membrane from SDS-PAGE by electroblotting. *Analytica Chimica Acta*, 442, 113-119.
 - 10) **El-Shemy, H. A.**, Nishimura, T. and Fujita, K. 2001: Characterization and localization of a novel protein (HFN40) in some maize genotypes without husk leaf blades. *Biologia Plantarum*, 44, 623-625.
 - 11) **El-Shemy, H. A.**, Nishizawa, K., Utsumi, S. and Ishimoto, M. 2001: Introduction of a modified glycinin gene in soybean by particle bombardment. *Breeding Research*, 3, 105.
 - 12) **El-Shemy, H. A.**, Khalafalla, M. M., Nishizawa, K., Utsumi, S. and Ishimoto, M. 2002: Improvement of soybean seed proteins by genetic engineering. *Breeding Research*, 4, 165.
 - 13) **El-Shemy, H. A.**, Khalafalla, M. M., Wakasa K. and Ishimoto, M. 2002: Reproducible transformation in two grain legumes, soybean and azuki bean by using different systems. *Cellular & Molecular Biology Lett.* 7, 709-719.
 - 14) Fujikawa, Y, Sakurai, N., Sendo, S. Oka, T., Yamana, H., Ofosu-Budu, K. G., **El-Shemy, H. A.** and Fujita, K : 2002: Leaf area expansion and sugar composition in husk leaf flint corn (*Zea mays* L.) genotypes differing in husk leaf size. *J. of Agric. Sci.* 139: 37-45.
 - 15) Khalafalla, M. M., **El-Shemy, H. A.**, Mizanur, R. S., and Ishimoto, M. 2003: Analysis of particle bombardment conditions to optimize transgene expression in soybean. *Breeding Research*, 5, 296.
 - 16) Mizanur, R. S., Khalafalla, M. M., **El-Shemy, H. A.**, Nakamoto, Y., Kuroda, M., Wakasa, K., and Ishimoto, M. 2003: Production of transgenic soybean and azuki bean

- plants by particle bombardment and *Agrobacterium* respectively. *Breeding Research*, 5, 304.
- 17) **El-Shemy, H. A.**, Ahmed M. Aboul-Enein, Mostafa I. Aboul-Enein and K. Fujita (2003) The effect of willow leaf extract on human leukemic cells, *in-vitro*. *J. Biochem. Mol. Biol.* **36**, 387-389.
 - 18) **El-Shemy, H. A.**, Teraishi , M., Khalafalla, M. M., Katsube-Tanaka, T., Utsumi, S. and Ishimoto, M.2004: Isolation of soybean plants with stable transgene expression by visual selection based on green fluorescent protein. *Molecular Breeding*. 14:227-238.
 - 19) Kounosuke Fujita, Yoshito Kai, Miki Takayanagi, **Hany El-Shemy**, Joseph J. Adu-Gyamfi and Pravat K. Mohapatra 2004: Genotypic variability of pigeonpea in distribution of photosynthetic carbon at low phosphorus level. *Plant Science*, 166, 641- 649.
 - 20) Mutasim M Khalafalla, **Hany A El-Shemy**, Rahman S Mizanur, Masayoshi Teraishi and Masao Ishimoto 2005: Recovery of herbicide-resistant Azuki bean [*Vigna angularis* (Wild.), Ohwi & Ohashi] plants via *Agrobacterium*-mediated transformation. *African Journal Biotechnology*, 4 , 61-67.
 - 21) M. M. Khalafalla, **H. A. El-Shemy**, R. S. Mizanur, Y. Nakamoto, K. Wakasa, M. Ishimoto 2005: Optimization of particle bombardment conditions by monitoring transient sGFP(S65T) expression in transformed soybean. *Breeding Science* **55**, 257-263.
 - 22) **El-Shemy, H. A.**, Khalafalla, M. M., Fujita, K. and Ishimoto, M.2006: Molecular control of gene co-suppression of transgenic soybean. *J. Biochemistry and Molecular Biology*, **39**, 61-67.
 - 23) **El-Shemy, H. A.** 2006: Mechanism of salicin as antileukemic agent. *J. Arid Land Studies*, **15**, 407-410.
 - 24) **El-Shemy, H. A.**, Nguyen, N. T., Ahmed, S.H. and Fujita K. 2006: Effects of sulfur fertilizer on the expression of 11S and 7S seed storage proteins of soybean. *J. of Plant Biotechnology*, **8**, 1-8.
 - 25) Moemen S. Hanafy, Rahman S Mizanur, Mutasim M Khalafalla, **Hany A El-Shemy**, Yumi Nakamoto, Masao Ishimoto and Kyo Wakasa 2006: Accumulation of free tryptophan in azuki bean (*Vigna angularis*) induced by expression of a gene (*OASID*) for modified alpha-subunit of rice anthranilate synthase. *Plant Science* , **171**, 670-676.
 - 26) Mutasim M Khalafalla, **Hany A El-Shemy**, Rahman S Mizanur, Masayoshi Teraishi, Hisakazu Hasegawa. Teruhiko Terakawa and Masao Ishimoto 2006: Efficient production of transgenic soybean (*Glycine max* [L] Merrill) plants mediated via whisker-supersonic (WSS) method. *African Journal of Biotechnology* , 18, 1594-1599

- 27) Mutasim M Khalafalla, **Hany A El-Shemy**, Rahman S Mizanur, Kyo Wakasa and Masao Ishimoto 2007: Improvement of Tryptophan Content in a Grain Legume, Azuki Bean (*Vigna angularis* Ohwi & Ohashi) by Expressing a Modified Rice Anthranilate Synthase (*OAS1D*) Gene. *African Journal of Biotechnology*, **In press**.
- 28) **El-Shemy, H. A.** Khalafalla, M. M., Fujita, K and Ishimoto, M.2007: Improvement of protein quality in transgenic soybean plants. *Biologia Plantarum*, **51**, 277-284.
- 29) **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..
- 30) **El-Shemy, H. A.** and Khalafalla, M. M 2007: Transgenic Azuki Bean Approaches. *Transgenic Plant Journal*. **1**, 145-149.
- 31) Syunsuke Kanai , Joseph Adu-Gyamfi , Kei Lei , Junki Ito , Katsumi Ohkura, Reda E.Moghaieb , **Hany A. El-Shemy** , Rashmi Mohapatra , Pravat K. Mohapatra , Hirofumi Saneoka , Kounosuke Fujita 2008: N-deficiency damps out circadian rhythmic changes of stem diameter dynamics in tomato plant. *Plant Science* **174**, 183-191.
- 32) Muhammad Iqbal Chaudhary , Joseph J. Adu-Gyamfi , Hirofumi Saneoka, Nguyen Tran Nguyen, Ryuichi Suwa , Shyunsuke Kanai, **Hany A. El-Shemy**, David A Lightfoot and Kounosuke Fujita 2008: The effect of phosphorus deficiency on biological nitrogen fixation and photosynthetic rate in mashbean, mungbean and soybean. *Acta Physiologia Plantarum*. **In press**.
- 33) **El-Shemy, Hany**, 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>> (2008)
- 34) **Hany A. El-Shemy** , 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.* **In press**
- 35) Eman A. Mahmoud, Solliman M. Mohei El-Din, Mourad A. M. Aboul-Soud, Ahmed. A. Aboul-Enein, Ghanem, A. Sobhy and **Hany A. El-Shemy** (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. In press

36) MJ Iqbal, R Ahsan, AJ Afzal, A Jamai, Meksem K, **HE Shemy** DA Lightfoot (2009) Multigenic QTL: The laccase encoded within the soybean *Rfs2/rhg1* locus inferred to underlie part of the dual resistance to cyst nematode and sudden death syndrome. Curr. Issue Mol. Biol. In press

37) Karangula UB, MA Kassem, L Gupta , **H El-Shemy**, DA Lightfoot (2009) Locus Interactions Underlie Seed Yield In Soybeans Resistant to *Hetrodera glycines*. Curr. Issue Mol. Biol. In press

38) Kotb A. Attia, Amr F. Abdelkhalik, , Megahed H. Ammar, Chun Wei, Jinshui Yang, David A Lightfoot, Wagih M. El-Sayed and **Hany A. El-Shemy** (2009) Antisense Phenotypes Reveal a Functional Expression of *OsARF1*, an Auxin Response Factor, in Transgenic Rice. Curr. Issue Mol. Biol. In press

39) Shimaa Bahgat , Omer A. Shabban, Osama El-Shihy, David. A. Lightfoot and **Hany A. El- Shemy** (2009) Establishment the Regeneration System for *Vicia faba*. Curr. Issue Mol. Biol. In press

40) Mizuki Takagi, **Hany A. El-Shemy**, 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.

41) Mourad Aboul-Soud and **Hany A. El-Shemy** (2009) Identification and subcellular localization of SI: INT7: A novel tomato fruit ripening related and stress inducible gene. *Plant Science* **176**: 241-147.

PATENT:

1) **El-Shemy, H. A.** and K. Fujita. 2006. Title of the Invention: Composition for Treating Solid Tumors, and Use Thereof. JP patent # (Patent number is: 2006-223498) Approved.

Referred Proceeding

- 1) Fujita, K , **El-Shemy, H. A.**, Sakurai, N. and Sendo, S. 2001: Sugar metabolism in expanding husk leaf of flint corn (*Zea mays* L.) genotypes differing in husk leaf size. Food security and sustainability of agro-ecosystems. W.J. Horst et al. ed., Kluwer Academic Publishers pp. 278-279.
- 2) Fujita, K., Chaudhary, M.I., Fujita, A., Kai. Y., Takayanagi, M., **El-Shemy, H. A.** and Adu-Gyamfi, J. J. 2002: Photosynthesized carbon translocation and distribution of crops at low-nutrient environments. *Food security in nutrient-stressed environments: exploiting plants, genetic capabilities*: J. J. Adu-Gyamfi (Ed.), 91-101.
- 3) **El-Shemy, H. A.**, M.M. Khalafalla, H. Hasegawa, T. Terakawa, K. Wakasa, Ishimoto, M. 2004: Increased the lysine content in azuki bean via *Agrobacterium*-mediated transformation system. *Fischer, T. et al., New directions for a diverse planet: Proceedings for the 4th International Crop Science Congress, Brisbane, Australia, 26 September – 1 October 2004.*

Conferences Presentation and Abstracts

- 1) Abdel-Rahim, E. A., Abdel-Fatah, O. M., **El-Shemy, H. A.** and Abdel-Saamei, M. B. 1998: Growth of date palm callus affected by amino acids as nitrogen source. First International Conference On Date Palm, Al-Ain, United Arab Emirates, March 8-10.
- 2) **El-Shemy, H. A.**, Abdel-Rahim, E. A., Abdel-Galal, M. M. and Shalaby, A. R. 1999: Effect of biogenic amines on metabolic changes of energy metabolites and myokinase activity of male albino rats. The Pittsburgh Conference of Applied Spectroscopy and Analytical Chemistry “ Pittcon 99”, Orange County Convention Center, March 7-12, Orlando, Florida, USA.
- 3) Afify, A. M. R., Mohamed, M. A. and **El-Shemy, H. A.** 1999: Application of X-ray fluorescence electron microscope in agriculture field. *Proceedings of Recent Technologies in Agriculture*, pp. 574-580. Cairo Univ., Egypt.
- 4) **El-Shemy, H. A.**, Saneoka, H. and Fujita, K. 2000: Protein subunits composition in seeds of several legume varieties. The Pittsburgh Conference of Applied Spectroscopy and Analytical Chemistry “ Pittcon 2000”, March 12-17, New Orleans, LA, USA.
- 5) **El-Shemy, H. A.**, Tomomi , O., Kai, Y., Saneoka, H. and Fujita, K. 2000: Effect of nitrogen nutrition on ¹³C partitioning into cell wall component on culm leaf of sweet Corn. The Pittsburgh Conference of Applied

Spectroscopy and Analytical Chemistry “ Pittcon 2000”, March 12-17,
New Orleans,LA, USA.

- 6) **El-Shemy, H. A.**, Ryu, S. and Fujita, K. 2000: Storage protein subunits composition in soybean seeds as affected by N application and pod removal. X th International Colloquium for the Optimization of Plant Nutrition (IAOPN), 8-13 April, Cairo, Arab Republic of Egypt.
- 7) Fujita, K , Yoneyama, T., Fujiwara, S., **El-Shemy, H. A.**, Sendo, S., Yamana, H., and Oka, T. 2000: Photosynthesis of maize husk leaves determined by natural abundance of stable isotopes, ¹³C. *International Maize Genetics and Breeding Symposium*, pp 66-71. Changchun, Sept. 15-17,China
- 8) **El-Shemy, H. A.**, Nishimura, T., Yamana, H., Saneoka, H. and Fujita, K. 2000: Characterization of maize proteins in some genotypes with or without husk leaves. *International Maize Genetics and Breeding Symposium*, pp 71-78.,Changchun, Sept. 15-17, China.
- 9) Fujita, K , Fujikawa, Y., Sakurai, Oka, T., Yamana, H. and **El-Shemy, H. A.** 2001: Carbohydrate metabolism in expanding husk leaf of flint corn genotypes. The Pittsburgh Conference of Applied Spectroscopy and Analytical Chemistry “ Pittcon 2001”, March 4-9, New-orleans, LA, USA.
- 10) **El-Shemy, H. A.**, Ahmed, S. H., Saneoka, H. and Fujita, K. 2001: Differences in composition of glycinin and beta-conglycinin globulins in some legume cultivars . The Pittsburgh Conference of Applied Spectroscopy and Analytical Chemistry “ Pittcon 2001”, March 4-9, New-orleans, LA, USA.
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