



University

October University for
Modern Sciences and Arts

جامعة أكتوبر للعلوم الحديثة والآداب



Publications & Project Involvements

1993-2015

Faculty of Biotechnology
MSA University



Publications

1. **Gehan Safwat**, Mariam Adel, Gehan Ahmed Mahmoud and Hemat El Salam.(2015).The efficiency of spraying essential oils on the postharvest quality traits of Anna apple (*Malus Domestica* Borkh) during storage. *Bothalia Journal*, 45(1); 151-169.
2. **Gehan Safwat**, Fatima Abdul-Rahman, Sherif El Sharbasy.(2015). The Effect of some Antioxidants on Blackening and Growth of *In Vitro* Musa spp.cv. Grand Naine. *Egypt J.Gent.Cytol.*,44:47-59.
3. **Gehan Hammad**, Fatma Issa, Sherif El-Sharabasy.(2015).Effect of Different Amino Acids at Different Concentration on Multiplication and Rooting stage of *in vitro* propagation of strawberries (*Fragaria X ananassa* Duch cv. Chandler) *Egypt J.Gent.Cytol.*, 44:60-72.
4. Eglal M. Said, Rania A. Mahmoud, Rana AlAksha and **Gehan Safwat**.(2015) Drought Stress Tolerance and Enhancement of Banana Plantlets In Vitro.*Austin J Biotechnol Bioeng - Volume 2 Issue 2 -*

5. Ashraf S El-Sayed, Ahmed A Shindia, **Ayman A Diab**, **Amgad M Rady**. (2014). Purification and immobilization of L-arginase from thermotolerant *Penicillium chrysogenum* KJ185377.1; with unique kinetic properties as thermostable anticancer enzyme. Arch. Pharm. Res.
6. **Osama S. Hassan**, Fatma Badie and **Gehan Safwat**. (2014). Quantification of the Gene Expression of Bell Peppers (*Capsicum annuum*) Ripening Gene(s) Using Real -Time PCR African Journal of Biotechnology, **13**(53), 4745-4752.
7. **Gehan Safwat**, Yasmien El-Sayed, **Gehan Hammad** and Sherif .F. El-Sharabasy .(2014).The Assessment of the effect complex additives in the tissue culture media of *Philodendron Red Emelard* plants .International Journal of Agricultural Vol. 4, Issue 6, Dec 2014, 155-164.
- V. **Gehan Safwat**, Sherif El-Sharabasy, Abd El-Moneam El-Banna, Saleh Khede Zardah and Nashwa Hamido.(2014) .The effect of natural antioxidant(s) on date palm (*Phoenix dactylifera* L.) *in vitro*. African Journal of Biotechnology **13** (33), 3366-3375.
8. **Mohamed S Othman**, **Gehan Safwat**, Menna Aboukair,Ahmed Abdel Moneim (2014) The potential effect of berberine mercury- induced hepatorenal toxicity in albino rats .Food and Chemical Toxicology **69**; 175-181.
9. Bismar TA, Alshalalfa M, Petersen LF, Teng LH, Gerke T, **Bakkar A**, Al-Mami A, Liu S, Dolph M, Mucci LA, Alhaji R. (2014) Interrogation of ERG gene rearrangements in prostate cancer identifies a prognostic 10-gene signature with relevant implication to patients' clinical outcome. British Journal of Urology International BJU Int. **113**(2):309-19.
10. Youseif, S., Abd El-Megeed, F., **Ageez, A.**, Cocking, E., and Saleh S. (2014). Phylogenetic multilocus sequence analysis of native rhizobia nodulating faba bean (*Vicia faba* L.) in Egypt. Systematic and Applied Microbiology, **37**(8), 560-569.
11. Abd El-Aal, A.S., **Ageez, A.**, Abd El-Hadi A.and Abdallah, Naglaa A. (2014) Genetic improvement of n-butanol tolerance in *Escherichia coli* by heterologous overexpression of *groESL* operon from *Clostridium acetobutylicum*. 3 Biotech, DOI 10.1007/s13205-014-0235-8.

12. Youseif, S., Abd El-Megeed, F., **Ageez, A.**, Mohamed, Z, Shamseldin, A. and Saleh S. (2014). Phenotypic characteristics and genetic diversity of rhizobia nodulating soybean in Egyptian soils. *European Journal of Soil Biology*, 60, 34-43.
13. **Mohamed S. Othman** , **Nada, A.**; Zaki, H.S. and Abdel Moneim, A.E. (2014). Effect of *Physalis peruviana* L. on cadmium-induced testicular toxicity in rats. *Biological Trace Element Research*. DOI: 10.1007/s12011-014-9955-1.

14. **Ayman A. Diab**, Mohamed A. M. Atia, Ebtissam H. A. Hussein, Hashem A. Hussein and Sami S. Asawy .(2013). A Multidisciplinary Approach for Dissecting QTL Controlling High Yield and Drought Tolerance-Related Traits in Durum Wheat. International Journal of Agricultural Science and Research (IJASR) 3(3) 99-116.
15. Sami S. Adawy, **Ayman A. Diab**, Abdel-Hadi I. Sayed, Shafik D. Ibrahim, Shafik I. El-Morsy and Mahmod M. Saker .(2013). Construction of Genetic Linkage Map and QTL analysis of Net Blotch Resistance in Barley. (In press).
16. **Ayman A. Diab, Ahmed M. K. Nada**, Ahmed Ashoub .(2013). Molecular Cloning, Expression, Sequence Analysis and In Silico Comparative Mapping of Trehalose 6-Phosphate Gene From Egyptian Durum Wheat. International Journal for Biotechnology and Molecular Biology Research. 4(1):9-23.
17. Sami S. Adawy, **Ayman A. Diab**, Mohamed A. M. Atia and Ebtissam H. A. Hussein. (2013). Construction of Genetic Linkage Map with Chromosomal Assignment and Quantitative Trait Loci Associated with Some Important Agronomic Traits in Cotton. Journal of GM Crops and Food: Biotechnology in Agriculture and the Food Chain 4(1):1-14.
18. Maged Hammad, Sherif El-Sharabasy, **Gehan Safwat, and Osama Hassan** (2013). Using some microelements to improve shoot and root induction of date palm (Phoenix dactylifera L.) Cv. Sukkari. J. Biol. Chem. Environ. Sci., 2013,(3);1-10.
19. **Ali Diab** and Shereen Gamal El Din (2013) Application of the biosurfactants produced by Bacillus spp. (SH 20 and SH 26) and Pseudomonas aeruginosa SH 29 isolated from the rhizosphere soil of an Egyptian salt marsh plant for the cleaning of oil - contaminated vessels and enhancing the biodegradation of oily sludge .African Journal of Environmental Science 2013 and Technology 7(7); 671-679.
20. Mohamed Dkhil, Saleh Al-Quraishy, **Ahmed Aref, Mohamed S. Othman**, Kamal El-Deib, and Ahmed Abdel Moneim (2013). The potential role of Azadirachta indica treatment on cisplatin-induced hepatotoxicity and

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21. Ayman Y. Amin and **Ayman A. Diab** .(2012). QTL Mapping For SGDH Doubled Haploid Population of Wheat (*Triticum aestivum* L.) In Response to Salt Stress. *Arab Journal of Biotechnology* (in press *British Journal of Biotechnology*).
22. **Ayman A. Diab**, Ayman Y. Amin, Salwa Badr, Bassem A. Abdelgawad, Sami S. Adawy, RH Sammour .(2012). Identification and Functional Validation of Expressed Sequence Tags (ESTs) Preferentially Expressed in Response to Drought Stress in Durum Wheat. *International Journal of Plant Breeding* 6(1): 14-20.
23. **Ayman A. Diab**, S. M. Khalil, Roba M. Ismail. (2012). Regeneration and Micropropagation of Grapevine (*Vitis vinifera* L.) through Shoot Tips and Axillary Buds. *International Journal of Advanced Biotechnology and Research* 2(4): 484-491.
24. Sherif El-Sharabasy, Mai Ahmed Farag, Gehan A.E.El-Emery, **Gehan Safwat and Ayman Diab** (2012)Effect of Amino Acids on the Growth and Production of Steroids in Date Palm Using Tissue Culture Technique. *Researcher*, 2012;4(1).
25. Iri Beshir, Sherif El Sharbasy, **Gehan Safwat, Ayman Diab** (2012).The effect of some natural materials in the development of shoot and root of banana (*musa spp*) using tissue culture technology. *New York Science Journal*, 2012; 5 (1).
26. Neuzillet Y, Paoletti X, Ouerhani S, Mongiat-Artus P, Soliman H, de The H, Sibony M, Denoux Y, Molinie V, Herault A, Lepage ML, Maille P, Renou A, Vordos D, Abbou CC, **Bakkar A**, Asselain B, Kourda N, El Gaaied A, Leroy K, Laplanche A, Benhamou S, Lebret T, Allory Y, Radvanyi F. A (2012) .Meta- Analysis of the Relationship between FGFR3 and TP53 Mutations in Bladder Cancer. *PLoS One*. 2012;7(12):e48993. Epub 2012 Dec 13
27. Lars F Petersen, Nigel Brockton, **Ashraf Bakkar** .(2012).Elevated Physiological Levels of Folic Acid Can Increase In Vitro Growth and Invasiveness of Prostate Cancer Cells. *British Journal of Urology International*. 2012 Mar; 109(5):78.
28. **Ali Diab** and Maram Sandouka (2012) Effect of Phytogenic Biosurfactant on the Microbia Community and on the Bioremediation of Highly Oil Polluted Desert Soil *Journal of American Science*, 2012;8(1).
29. **K. A. El-Sharkawy**, N. N. E. El-Sayed and M. Y. Zaki(2012). Uses of 2-Amino-5,6-dihydro-4H-cyclopenta [b] thio- phene-3-carbonitrile in the

30. Fouda, A. H. ; Gad, Khaled. I. M.; **Diab, A. A. ; Safwat, G.** and Hussein, M. H. (2011) Genetic Diversity of Some Egyptian Durum Wheat Cultivars. Journal of American Science, 2011; 7(7).
31. El-Gohary N., **Safwat G.**, Ibrahim M., **Diab A.** and Hussein, M. H. (2011) Effect of carboplatin and Nigella sativa oil on human breast cancer cells in vitro and Ehrlich ascites tumor bearing mice in vivo. Arab Journal of Biotechnology. 14(1), 13-24.
32. Omar M. Akram, Mona Gaafar, **Gehan Safwat and Ayman Diab** (2011) Comparative Study among the Germination and Propagation of Different Capsicum Annuum Cultivars using Tissue Culture Techniques. Nature and Science, 2011; 9(7).
33. Kamel A. Kh., Al- Naggar A. M. , **Safwat G., Diab A. A.** , and Hussein M. H. (2011) Molecular characterization of some Egyptian breadwheat genotypes. Arab J. Biotechnology. 14 (1), 113-124.
34. Benitez A, Yates TJ, Lopez LE, Cerwinka WH, **Bakkar A**, Lokeshwar VB (2011) Targeting hyaluronidase for cancer therapy: antitumor activity of sulfated hyaluronic acid in prostate cancer cells. Cancer Res. 2011 Jun 15;71(12):4085-95.
35. **Diab, A.**, El-Sadi, Y., **Ageez, A.**, Kapiel, T. and Abd El-Salam E. (2011) Cloning and Expression Analysis of Betaine Aldehyde Dehydrogenase from Pseudomonas fluorescens. Egypt. J. Genet. Cytol., 40, 161-173.
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37. Maklad, M., Desouky, I., Rashed, M. and **Ageez, A.** (2011) Molecular markers for self incompatibility phenomena in some mango cultivars. Egypt. J. Genet. Cytol., 40, 351-363.
38. Faheem, M., **Ageez, A.**, Badr, S. and Sasmour, R. (2011) Differential Gene Expression Analysis in Vicia monantha under Drought Stress Conditions. Egypt. J. Genet. Cytol., 40, 1-13.

39. **Mohamed S.Othman**, Aref AM, Moneim A, (2011). Prevalence of HCV among hemodialysis patients in Egypt: survey in a single center. Al-Azhar Journal of Pharmaceutical Sciences. 2013, 44: 341-350,
40. **K.A. El-Sharkawy**. (2011).Synthesis and Antimicrobial Activity of 2-Substituted-3-Acetyl Thiazolidine -4-Carbonyl-Amino acid Derivatives.J. Pharm. Sci. & Res.3(1), 1005-1014

41. El-Hoseny M.E., El-Fallal A. Amira, A.K.El-Sayed, **A. Diab** and A.S.Sadik (2010). Biology, cytopathology and molecular identification of an Egyptian isolate of Zucchini yellow mosaic potyvirus (ZYMV-Eg). Pak. J. Biotechnol. 7 (1-2) 75-80.
42. Abd El-Halim H., Nada A., El-Domiaty F., Abou Ali R., **Ayman A. Diab** and Bahi El-Din A. (2010). Cloning, Sequence Analysis and In-Silico Mapping of An ABA-Inducible Gene Coding for Ornithine δ -Aminotransferase from *Vicia villosa*. Egypt. J. Genet. Cytol (1) 143-156.
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44. Plett, D., **Safwat, G.**, Shirley, N., Møller, I.S., Gilliam, M., Jacobs, A., Johnson A. & Tester, M. (2010) Improved salinity tolerance of rice through cell type-specific expression of AtHKT1;1. PLoS ONE 2010;5(9)e1257.
45. Abd El-Halim H., **Nada A.**, El-Domiaty F., Abou Ali R., Diab A. and Bahi El-Din A. (2010): Isolation and characterization abscisic acid inducible gene of from wild *Vicia villosa* species. The Egyptian Society of Genetics (1) 143-156.
46. R. M. Mohareb, **K. A. El-Sharkawy**, M. M. Hussein and H. M.El-Sehrawi.(2010).Synthesis of hydrazide-hydrazone derivatives and their evaluation of antidepressant, sedative and analgesic agents.Pharm.Sci.&Res.2(4):185-196.

47. **Nada A**, Abdelhalim H. and Fahhad Amr (2009): Cloning of Two Dehydrin Genes from the Halophytes of the Egyptian Northwest Coastal Region. The Egyptian Society of Genetics (2) 374-360.
48. Abou Ali R., El-Hefnawy M. and **Nada A.** (2009): Isolation and characterization of Cab8 gene from wild Vicia cinera species. The Egyptian Society of Genetics (2) 335-347.
49. Abd el-maksoud, R., **Ageez, A.**, El-Khishin, D., Fahmy, E. and Abdel-Tawab, F. (2009) Differential gene expression in response to salt stress in Vicia monantha. Egypt. J. Genet. Cytol., (38), 137-152.
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doi:10.3797/scipharm.0901-20.
51. **K. A. El-Sharkawy**, E. E. El-Arab and R. A. Ibrahim.(2009). Synthesis and in vitro evaluation of sulfamethoxazole and sulfadimidine derivatives as antimicrobial agents. Egypt. J. Biomed. Sci. 29:384-396.

52. Abd El-Aal, A.S., **Ageez, A.**, Maaty, W., Gaber, A. and Abdallah, Naglaa A. (2008). Identification and characterization of resistance gene analog (RGA) and the leaf rust Lr21 gene from the wheat cultivar Giza168. Arab Journal of biotechnology, 11(1), 85-94.
53. **Diab A.A.**, R.V. Kantety, N.Z. Ozturk, D. Benscher, M.M. Nachit and M.E. Sorrells (2008). Drought - Inducible Genes and Differentially Expressed Sequence Tags Associated with Components of Drought Tolerance in Durum Wheat. Scientific Research and Essay 3 (1):9-26.
54. Sami S. Adawy, **Ayman A. Diab**, Mohamed A. M. Atia and Ebtissam H. A. Hussein (2008). Construction of Genetic Linkage Map Showing Chromosomal Regions Associated with Some Agronomic Traits in Cotton. International Journal of Plant Breeding 2(1): 27-38.
55. Rafat M.Nohareb, Nadia A.Abdou and **Karam A.El-sharkawy**.(2008). The reaction of cyanoacetylhydrazone with phenylisothio- cyanate:synthesis of, thiazole pyridazine and triazine derivatives with biological interest.1stScientific Conference of Faculty of Pharmacy Cairo University.
56. Rafat M.Nohareb, **Karam A.El-sharkawy** and Nehad A.Abdel-latif.(2008). The reaction of β -amino- α,γ -dicyanocrotono- nitrile with acetophenon : synthesis of pyridine,pyridazine and thiophene derivatives with antimicrobial activities. 1stScientific Conference of Faculty of Pharmacy Cairo University.
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58. Ahmed M.El-Naggar, Tarek M. A. Ibrahim, and **Karam A.El-Sharkawy**.(2008). Synthesis and antimicrobial activity of certain thiophene-2-sulphonyl-amino acid derivatives. Egypt. J. Biomed. Sci. 27: 62-71.

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61. **Ayman A. Diab, Amr Ageez,** Bassem A. Abdelgwad , Tamer I. Zaki (2007). Cloning, Sequence Analysis and in-silico mapping of a Drought-Inducible Gene Coding for S-Adenosylmethionine Decarboxylase from Durum Wheat. World Applied Sciences Journal 2(4):333-341.
62. **Ayman A. Diab,** Ashraf H. Fahmy, Osama S. Hassan, MM. Nachit, Osama A. Momtaz (2007). Identification of Chromosomal Regions and Genetic Contributions of Genes Controlling Yield and Other Agronomic Traits in Durum Wheat Grown under Different Egyptian Environmental Conditions. World Journal of Agricultural Science 3(4): 401-422.
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64. Osama, A. Momtaz, Ahmed El-Fatih A. El-Doliefy, Ashraf H. Fahmy, **Ayman A. Diab** (2007). Comparative Sequence Analysis of Actin Related Gene Family Isolated from Gossypium barbadense. World Journal for Agricultural Sciences 3(1):130-139.
65. Ashraf H. Fahmy, **Ayman A. Diab,** Hanafy Ahmed AH, Osama A. Momtaz (2007). Comparative Analysis of Amino Acid between Transgenic and non- Transgenic Egyptian Cotton (Gossypium barbadense) Lines under Different Salt Stress Conditions. American-Eurasian Journal of Agricultural and Environmental Science 2(1): 6-15.
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74. **Nada A.** and Soll J. (2004): Inner envelope protein 32 is imported into chloroplasts by a novel pathway. *J. Cell Sci*. 117(17):3975-3982.

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77. **Hassan, O.S.S.** (2002). (Dissertation) Molecular studies on fiber initiation genes in cotton (*Gossypium hirsutum* L.). Dissertation. Texas A&M University. College Station, TX, USA.
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80. **Diab A.A.**, Benscher D., Nachit M., Momtaz O.A, Madkour M.A. and Sorrells M.E. (2000). Identification and characterization of drought genes in grasses. 10th International Triticeae Mapping Initiative Workshop (ITMI). University of Delaware Newark, Delaware USA.

81. Sorrells M.E., **Diab A.A.**, and Nachit M. (2000). Comparative Genetics of Drought Tolerance. Proceedings of Durum Wheat Improvement in the Mediterranean Region: New Challenges. 40: 191- 201.

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83. Teresa Capell, Olivia Lepri, Ludovic Bassie, Pham Trung-Nghia, Pham Thu-Hang, **Gehan Safwat** and Paul Christou. (1999). Elucidation of the relative contribution of the two alternative pathways for polyamine biogenesis in plants suggests a key role for the putrescine pool in controlling flux to the higher polyamines. Rice Genetics Newsletter 17, 105-109.

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84. Momtaz, O.A., **Diab A.A.**, and Madkour M.A. (1998). Development of Transgenic Egyptian Cotton Varieties (*Gossypium barbadense*) from Meristematic Tissue. Proceedings of Beltwide cotton conferences, San Antonio, Texas, USA. P 513-516.

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88. Momtaz, O. A., **O. S. Hassan**, A. E. Elawady and M. A. Madkour. (1994). Isolation and purification of ribonucleic acid from highly polyphenolic Egyptian cotton (*Gossypium barbadense*). p. 652-654. In D.J. Herber and D.A. Ritcher (eds.), Proc. Beltwide Cotton Conf., Cotton Improvement Conf., January 4-8, 1994, San Diego, CA. The National Cotton Council of America, Memphis, TN.

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89. Momtaz, O. A., **O. S. Hassan**. and M. A. Madkour.(1993). Transient expression of beta-glucuronidase in new hybrid of fine extra- long staple Egyptian cotton seedlings following biolistic particle bombardment. p. 243-251. Proceedings of the Working Group "Cotton Biotechnology" of the FAO-Inter-Regional Cooperative Research Network on Cotton, October 1993, Leuven, Belgium.

Projects

1. **2013-2015: Ayman Diab The principal Investigator** of the project “Establishment of Technology and Innovation Commercialization Office at MSA University and fostering research innovation in 6th October city”. **The Project is funded by the Academy for Scientific Research and Technology – Ministry of Higher Education.** Awarded Fund is **700,000 L.E.**
2. **2011-2013: Ayman Diab The co-principal Investigator** of the project “Development of marker assistant selection system for Net blotch resistance in barely”. **The Project is funded by the Science and Technology Development Fund (STDF) – Academy for Scientific Research and Technology – Ministry of Higher Education.** Awarded Fund is **960,000 L.E.**
3. **2009-2011: Ayman Diab The principal Investigator** of the project “Genomics in the service of Durum Wheat Breeding: Development of Cultivars with High Water Use Efficiency in Egypt”. **The Project is funded by the Science and Technology Development Fund (STDF) – Academy for Scientific Research and Technology – Ministry of Higher Education.** Awarded Fund is **1,000,000 L.E.**
4. **2005-2008: Ayman Diab Team member** of the project “Structural and Functional Genomic Analysis of Some Economical Important Crops in Egypt”. **The project is funded by the Ministry of Agriculture- Egypt.** Awarded fund is **3,750,000 L.E.**
5. **2010-2014 Amr Ageez Personal Investigator,** of Development and enhancement of butanol production in *E. coli*. **Research project funded by Science & Technology Development Fund (STDF), Ministry of Higher education** Awarded Fund is **1,000,000 L.E.**
6. **2012-2015 Amr Ageez Team member,** De novo Sequencing and Assembly of the Egyptian Buffalo Genome. Research project funded by **Science & Technology Development Fund (STDF), Ministry of Higher education.** Awarded Fund is **2,644,320 L.E.**
7. **2012- Present Amr Ageez Team member,** Conservation and Utilization of Egyptian Wild Flora to Improve Salinity Tolerance in Cereals. Research project funded by **Science & Technology**

Development Fund (STDF), Ministry of Higher education. Awarded Fund is **3,000,000L.E.**

- 8. 2012-2015 Amr Ageez Team member,** Development of functional markers through association analysis of candidate genes for drought tolerance in barley. Research project funded by **Science & Technology Development Fund (STDF), Ministry of Higher education.** Awarded Fund is **1,000,000L.E.**
- 9. 2009-2011 Amr Ageez Team member,** Identification of Stress-Related Genes from Rice Using Microarray Technology. Research project funded by **Science & Technology Development Fund (STDF), Ministry of Higher education.** Awarded Fund is **1,000,000L.E.**
- 10. 2007-2009 Osama Saad Team member** “Identifying important genes controlling fiber development in cotton (*Gossypium* sp.) using high throughput genome technology.” Collaborative joint project with Prof. Jeffrey Z. Chen, Texas A&M University, College Station, Texas, USA. Through the USAID “Contract No. BIO9-005-
- 11. 2003-2007 Osama Saad Co- principal Investigator** of the project of “Genome analysis for commercial Egyptian cotton varieties (*Gossypium barbadense* L.)” that was **funded by the Egyptian Government.**
- 12. 2006 Ali Diab The principal Investigator** Selection of desert wild plants for the remediation of oil-polluted desert soil of Kuwait. **(Funded by the Public Authority for Applied Education and Training, Kuwait.**
- 13. 2006 Ali Diab The principal Investigator** .Detection of the contamination with polycyclic aromatic hydrocarbons (PAHs) in the soil of Kuwait, with special reference to the carcinogenic PAH compounds. **(Funded by the Public Authority for Applied Education and Training, Kuwait .**
- 14. 2005 Ali Diab The principal Investigator** Biodegradation activities of aromatic hydrocarbon – degrading bacteria isolated from the polluted desert soil of Kuwait, and their application for the treatment of polluted sites. **(Funded by the Public Authority for Applied Education and Training, Kuwait**

15. **2004 Ali Diab The principal Investigator** Selective enumeration, characterization and activities of aromatic – degrading microorganisms. **[Funded by the Public Authority for Applied Education and Training, Kuwait]**.
16. **2003 – Ali Diab The principal Investigator** Chemical and Microbiology evaluation of household (tap) and commercial bottled drinking water in Kuwait. **[Funded by Kuwait Foundation for the Advancement of Science]**.
17. **2002 Ali Diab The principal Investigator** Enhancing the biodegradation of petroleum oil in the polluted desert of Kuwait, and its application in cleaning polluted sites, with an attempt to develop strategies that can be performed on emergency basis. **[Funded by Kuwait Environmental Public Authority]**.
18. **1996 Ali Diab The principal Investigator** Studies on the Microbial contents of dust storms (Tooze) in the atmosphere of Kuwait in relation to allergic diseases and spoilage of Food materials. **[Funded by Kuwait Foundation for the Advancement of Science]**.
19. **1986-1990 Ali Diab The principal Investigator** Microbial Ecology of Petroleum – degraders in the Arabian Gulf water at Kuwait. **[Funded by Kuwait Environmental Protection Council]**.
20. **1994 Ali Diab The principal Investigator** Effects and affects of desert plant roots anrhizosphere microorganisms by oil pollutants during the bioremediation of polluted deserts. **[Funded by the Public Authority for Applied Education and Training – Kuwait]**.