

CURRICULUM VITAE

PROF. DR. AFAF M. HAFEZ

Personal data

Name : Afaf Mahmoud Hafez

Date and place of birth: 10 Oct. 1959, Alexandria, Egypt

Nationality : Egyptian

Marital Status : Married with two sons

Work address : Environmental Studies Department , Institute of Graduate studies and Research , University of Alexandria , 163 Horreya Avenue , P.O. Box 832 Chatby , Alexandria , Egypt

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Academic data

Education :

1981 : B.Sc. (Genetics), Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

1986 : M.Sc. (Genetics), Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

1991 : Ph.D. (Genetics), Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

Employment history:

Present Post : Vice- Dean for Community Development & Environment Affairs ,
Institute of Graduate studies and research , Alexandria University, Alexandria, Egypt.

Previous posts:

2011 – 2014 : Head of Department of Environmental Studies, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

2009 -2011 : Executive director of UNARC, IGSR, Alexandria University, Alexandria, Egypt.

2009 -- : Professor of genetics, Dept. of Environmental Studies, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

1999 - : Associate Professor of genetics, Dept. of Environmental Studies, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

1991- : Lecturer, Dept. of Environmental Studies, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

1986 : Assistant Lecturer, Dept. of Environmental Studies, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

1981 : Demonstrator, Dept. of Environmental Studies, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

Taught Courses :

- Principle of genetics
- Cytogenetics
- Cytology
- Genetic toxicology
- The Effect of Pollution on Plants and Animals.
- Applied ecology.
- Applied ecology-advanced.
- Natural resources (genetic resources).

ACTIVITIES

Projects

- Member of a Research team of the Cooperative Research Program between the Alexandria University and U.S. Environmental Protection Agency (EPA). "Genetic and Cytogenetic Changes Induced by Chemicals in the Environment". Project 3-545-5, PL 40 Funds, 1980 - 1984.
- Member of a Research team of a Cooperative Research Program between Ministry of Agriculture and Land Reclamation and Faculty of Agriculture, Alexandria University. "Genetic Damaging Effects of Environmental Contamination on Animal I-Health and Reproductive Ability in Rural Egypt". T-I-1-2, 1992-1994.
- Member of a Research team of cooperative Research Program between the Faculty of Agriculture, Alexandria University and Ministry of Agriculture and Land Reclamation, (National Agricultural Research Project). "Genetic damaging effect in Rural Egypt". 1994-1996.

- Member of a Research team of cooperative Research Program between the Faculty of Agriculture, Alexandria University and Ministry of Agriculture and Land Reclamation, (National Agricultural Research Project). "The interaction between genetic lesion induced by oral contraceptive and anti-schistosomal drugs in Rural Egypt". 1996-1998.
- Senior Researcher in the “Expansion of Stevia cultivation in West Delta and assessment of the crop as sweetener”; a collaborative research between the European Union and Egypt. 1999 - 2003.
- Contributor in the Quality Assurance and Accreditation Project (QAAP) which aimed to “Establish an Internal Quality Assurance Unit at Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.
- Committee member of QAAP2 projects for Accreditation and Quality Assurance at Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

Scientific society membership:

- **Member of Environmental Sector, Supreme Council of Egyptian Universities ,2011-2014.**
- Member in the Egyptian Society of Genetics and cytology.
- Member in the Egyptian Society of Bibliotheca Alexandrina Friends.
- Member in the Egyptian Society of Environmental Toxicology.
- Member in the Society of Environmental Friends.

Scientific Meetings :

- Second scientific meeting for the Evaluation and Discussing the Execution of the Research Projects of Regional Councils for Agricultural Research and Extension. September 3, 1996.
- The annual meetings of the Egyptian Society of Genetics, Cairo or Alexandria, Egypt. 1997 to Present.

- Contribution in the organization of the XXIV International Conference of Genetics. Faculty of Agriculture, Alexandria University. 1998.
- International conference on “Environmental management, health and sustainable development”. 22-25 March, 1999. Palestine Hotel-Alexandria, Egypt.
- International Conference on Ethical and Social Responsibilities in Science and Technology. Bibliotheca Alexandrina. Alexandria, Egypt. Oct. 19-21, 2002.
- The 20th Anniversary Conference of the Egyptian Society of Toxicology. Bibliotheca Alexandrina, Alexandria, Egypt. February 18-19, 2004.
- Conference on "Arab reform". Bibliotheca Alexandrina, Alexandria, Egypt. March 12-14, 2004.
- The International Conference of "BioVision Alexandria 2004: Ethics, Patents and the Poor". Bibliotheca Alexandrina, Alexandria, Egypt. April 3-6, 2004.
- The International Conference of "Genetic Engineering & Its Applications". Sharm El Sheik City, South Sinai, Egypt. April 8-11, 2004.
- "Life Science" Seminar on Molecular Biology and Cell Culture”. Cairo. April 20-21, 2004.
- Conference on “Educational Reform in Egypt”. Bibliotheca Alexandrina, Alexandria, Egypt. December 8-10, 2004.
- The Second Conference on "Arab Reform". Bibliotheca Alexandrina, Alexandria, Egypt. March, 2005.
- The International Conference of “Biovision Alexandria 2006: New Life Sciences: Changing Lives”. Bibliotheca Alexandrina, Alexandria, Egypt. April 26-29, 2006.
- International Conference on Biotechnology and Environmental Safety. National Research Center, Cairo, Egypt .April 14-16, 2009.
- The first international Alexandria Environmental forum Towards a Cleaner Mediterranean Region. IGSR, Alexandria , 2009.
- Organizer and contributor “The International Conference towards Sustainable Environment “.IGSR, Alexandria Aug., 11- 12, 2014.

Workshops :

- " Building Strategic Partnership" Workshop, Alexandria University, August , 2015
- Participation in the “Industrial Wastewater Treatment Technologies “ 9-13 March 2008.Center of graduate studies & research In collaboration with Department of Environmental Studies.
- Contribution in the organization of Mutagens and Chemical Carcinogens in Occupational Environment Workshop. April 5th-8th, 1986. Alexandria University Research Center.
- Contribution in the organization of the Egyptian American Genetic Toxicology Workshop, March 30 – April 12, 1982. Alexandria, Egypt.

Training Courses:

- "Concepts and Recent Techniques in Biotechnology" Department of Genetics, Faculty of Agriculture in Collaboration with the Department of Biotechnology IGSR, Alexandria University. 20-30 June, 1997.
- Faculty and Leadership Development Project for staff members (FLDP) :
 - 1 - New Trends in Teaching (T2).
 - 2 - Effective Presentation Skills (I1).
 - 3 - Code of Ethics (P4).
 - 4 - Time and Stress Management (P3).
 - 5 - Financial Affairs (L5).
 - 6 - Legal Affairs (L4).
- Management of library programs, 2010.IGSR, Alexandria University.

Publications

- Seehy, M.A., E.A. Badr and Afaf M. Hafez (1989). Genotoxicity of Pesiticides: I- Paraquat dichloride. J. Agric. Sci. Mansoura, 14(2): 233-1241.
- Seehy, M.A., H.G. Shalabi and Afaf M. Hafez (1989). Oral contraceptives induced mitotic gene conversion and mitotic non-disjunctions in yeast. The Bulletin of The High Institute of Public Health. Vol. XIX No. 4: 905-913.
- Seehy, M.A., E.A. Badr and Afaf M. Hafez (1990). Genotoxicity of Pesiticides: II- Flumeturon and Chlorpyrifos. Egypt. J. Genet. Cytol. 18: 59-76.
- Seehy, M.A., and Afaf M. Hafez (1992). Genotoxicity of contraceptive drugs. First International Conf. On Environ. Mutagen. In Human Population at Risk, Cairo, Egypt.
- Goneim E.H.; S.M. Dawod; M.Z. Attalah and Afaf M. Hafez (1992). Effect of chemical composition and microbial contents for some meat products on genetic activities in yeast. Proceeding of First International Conference on Toward an Arab African Strategy for Safe Food and Better Nutrition, Alexandria, Egypt. 23-25 June.
- Afaf M. Hafez; O.M. Badawy; A. Makhlof; and M.A. Seehy (1995). The relationship between pollution and DNA damage in *Bos taurus* chromosomes. Egypt. J. Genet. Cytol. 23.
- Afaf M. Hafez; O.M. Badawy; A. Makhlof; and M.A. Seehy (1995). Robertsonian centric fusion induced animal infertility in *Copra hircus*. Egypt. J. Genet. Cytol. 23.
- Sanaa A. Riad and Afaf M. Hafez (1996). Environmental stress and genetic damage in aquatic organisms. J. Egypt. Publ. Hlth. Assoc. Vol. LXXI; No. 5 :(6), 477-493.
- Afaf M. Hafez and Dojana Y. AL-Ayoubi (1997). *In vivo* induction of sister chromatid exchanges, analysis of mice bone-marrow chromosomes, primary

spermatocytes and micronucleus test: Accurate genotoxic bioassays for DNA damage induced by the drug Alexoprine. Bull. Alex. Fac. Med. Vol. XXXIII No. 1: 69-79.

- Afaf M. Hafez (1998). Evaluation of genotoxicity induced by 2, 4-D and fenvalerate in rat genome. J. Agric. Sci. Mansoura Univ., 23(7): 3149-3164.
- Afaf M. Hafez and M. Bahie EL-Deen (1998). Cytogenetic effect of oral contraceptive "TRIOVLAR" on Japanese Quail and Alexandria chicken. Egypt. Poult. Sci. Vol. 18(II) Aug.: 359-377.
- Dujana Y. AL-Ayoubi and Afaf M. Hafez (1998). Assessment of paracetamol genotoxicity. J. Agric. Sci. Mansoura Univ., 23(2): 723-734.
- Afaf M. Hafez; Hoda F. Abdel Salam; S.H. Hamady and O.M. Badawy. (1998). Assessment of *In vivo* DNA damage induced by Metamizol sodium and acetyl salicylic acid in mice and rats. Proceedings of the 26th Annual meeting of Genetics Alex. 29-30 Sept.1998. pp. 263-275.
- Hoda F. Abdel Salam; Afaf, M. Hafez and O.M. Badawy (1998). Genotoxic effect of some pyrethroids on the rats and mice genomes. Proceedings of the 26th Annual meeting of Genetics Alex. 29-30 Sept.1998. pp. 443-455.
- Seif E.A., H. Salama, and Afaf M. Hafez (2002). Evaluation of Lithium Genotoxicity. Mansoura J. Forensic Med. Clin. Toxicol. Vol.X no.2: 99-121. & Abstract in: Toxicology Letters, 123 (suppl. 1) 1- 154 (2001).
- El-Banna, Sabah G., A.B. Okab, Afaf M. Hafez, I.M. EL-Nabarawy and A.A. Koriem (2003). Liver and kidney functions and their histopathological changes of New-Zealand Rabbits drinking agricultural drainage water, First Scientific Conference on Modern Applications in Physiological Sciences. Dept. of Physiology, Faculty of Veterinary Medicine, Cairo University, Society of Physiological Sciences and Their Applications (5-9 August, 2003) pp 105-126.
- Azza Makhlof, Afaf M. Hafez, M.A. Seehy .and M. Morsy (2003). Spleen cells of mammals: Sensitive monitor for genetic damage induced by environmental pollutants. Alex. J. Agric. Res. 48 (2): 61-68.
- A.B. Okab, El-Banna, Sabah G., Afaf M. Hafez, and A.A. Koriem (2003). Semen characteristics of New-Zealand Rabbits drinking agricultural drainage water. First Scientific Conference on Modern Applications in Physiological Sciences. Dept. of Physiology, Faculty of Veterinary Medicine, Cairo University, Society of Physiological Sciences and Their Applications (5-9 August, 2003) pp 89-104.

- A.B. Okab, El-Banna, Sabah G., Afaf M. Hafez, Mona, A.H. Yehia and A.A. Koriem (2004). Hematological, biochemical parameters and histochemical Enzymes of New-Zealand Rabbits drinking agricultural drainage water. Egypt. J. Basic Appl. Physiol. 3 (1): 145-162.
- Badawy, O.M.; Afaf, M. Hafez; A.M. El-Shehawi and Mona, M. Seehy (2004). Evaluation of stevia extract genotoxicity: II- Effects on experimental rodents genome (*Mus musculus* and *Rattus norvegicus*). Proceed. Int. Conf. Eng. & Appli., April, 8-11, 2004: 531-544.
- Afaf M.Hafez, A.M., El-Shehawi, Marwa M. Seehy, and M.A. Seehy, (2004). DNA damage induced by Decis in human lymphocytes and experimental rodents. Proceed. Int. Conf. Eng.& Appl.(April,8-11,2004), 545-558.
- El-Seedy, A.S., M.A. Seehy, Afaf M. Hafez and A. A. Makhlof (2005). Sister chromatid exchanges and tumour induction in mice by Urethane and Indoxan. Alex. J. Agric. Res. 26 (4): 363-372.
- El-Shehawi, A.M.; Mona, M. Seehy; Afaf M. Hafez; O.M. Badawy and M.A. Seehy (2007). Evaluation of stevia extract genotoxicity: III- Differential effects on human and golden hamster (*Mesocricetus auratus*, 2N=44) genomes. J. Agric. Sci. Mansoura Univ., 32(3): 1851-1864.
- Hadia, A. Heikal; O.M. Badawy and Afaf M. Hafez (2008). Genetic relationships among some Stevia (*Stevia Rebaudiana* Bertoni) accessions based on ISSR analysis. Res .J. cell & Mol. Biol., 2(1): 1-5.
- Afaf M. Hafez (2009) .*Mugil cephalus* genome: A sensitive monitor for genotoxicity and cytotoxicity in aquatic environment. Australian Journal of Basic and Applied Sciences, 3(3): 2176-2187.
- Afaf M. Hafez (2009). Antigenotoxic Activity of Melatonin and Selenium against Genetic Damage Induced by Paraquat. Australian Journal of Basic and Applied Sciences, 3(3): 2130-2143.
- Sabah G. El-Banna, Ahmed M. Attia, Afaf M. Hafez and Sara M. El- Kazaz (2011). Chlorpyrifos induced modulation in the activities of hepatic drug metabolizing enzymes of rats: role of garlic. Egypt. J. Biochem., and Molec. Biol., 29(1): 31-46.

- Hesham Z. Ibrahim, Heba A.G. Mohammed and Afaf M. Hafez (2014). Physicochemical properties of some bottled water brands in Alexandria Governorate, Egypt. *J. Egypt. Public Health Assoc.*, 89 (2): 60 - 65.
- Hanaa H. Abdel-Rahman, Afaf M. Hafez and Amr A. Helmy (2015). Physicochemical Study on the Effectiveness of Eco-Friendly Anti-Corrosion Agent on the Corrosion of Steel in H₃PO₄ Solution, *Electrochemistry*, 83(6): 440 – 444.
- Hanaa H. Abdel Rahman, S. M. Seleim, Afaf M. Hafez & A. A. Helmy (2015). Study of electropolishing inhibition of steel using natural products as a green inhibitor in orthophosphoric acid . *Green Chemistry Letters and Reviews*. 8(3–4), 88–94.