

Curriculum Vitae

Prof. Ahmad K. Hegazy

Affiliation and work address

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Current position:

Professor of Applied Ecology and Conservation of Biodiversity

Education

- Ph.D.- M.Sc. (Ecology), Faculty of Science, University of Alberta, Canada.
- M.Sc. (Ecology), Faculty of Science, Cairo University & Faculty of Science, University of Alberta, Canada.
- B.Sc. (Botany), Faculty of Science, Cairo University.

Work Career

- November 1998 till now: Professor of Applied Ecology and Conservation of Biodiversity
- July 1992 - November 1998: Associate Professor of Plant Ecology (Applied Ecology and Conservation of Biodiversity).
- July 1987 - July 1992: Lecturer-Assistant Professor (Plant Ecology and General Botany).
- December 1980 - July 1987: Assistant Lecturer (Plant Ecology and General Botany).
- November 1976 - December 1980: Demonstrator (Plant Ecology and General Botany).

Academic Specialization

Major: Plant Ecology & Environmental Sciences

Minor: Applied Ecology, Environmental Biotechnology and Conservation of Biodiversity

Prizes and Academic Honours

- State Prize for Innovation and Creativity in Environment Protection, Academy of Scientific Research and Technology (1997).
- State Prize for Encouragement in Biological Sciences, Academy of Scientific Research and Technology (2000).
- Silver Medal of Food and Agriculture Organization of United Nations (FAO)- (2002).
- State Prize for Environmental Research and Education, Academy of Scientific Research and Technology (2003).

- Prize for Excellency in Research - Cairo University (2006)
- Annual International Publications Award - Cairo University (since its establishment in 2006 till now)

National councils and committees (currently or previously occupied)

- (1) Member of scientific committee for university professors promotion (Botany), Supreme Council of Universities, Egypt
- (2) Member of the supreme advisory committee, Academy of Scientific Research and Technology
- (3) Secretary general of the council of environmental research and development, Academy of Scientific Research and Technology
- (4) Secretary general of the council of environmental sciences, Academy of Scientific Research and Technology
- (5) Secretary general of the council of biological sciences, Academy of Scientific Research and Technology
- (6) Member of the council of basic sciences, Academy of Scientific Research and Technology
- (7) Member of the environment committee, Supreme Council of Universities.
- (8) Member of secretary general council, Academy of Scientific Research and Technology.
- (9) Member of national committee of Urban Harmony of protected areas, Urban Harmony Sector, Ministry of Culture.
- (10) Member of Egyptian Council for Green Construction-Committee for water use efficiency code.

Professional activities

- Delegated and seconded to about 10 Universities to supervise M.Sc. & Ph.D students, and teach ecology courses for graduate and undergraduate programmes.
- Visiting fellow to some Arabic, European and North American universities.
- Participated in about 90 international conference and workshop on environmental sciences in more than 30 countries.
- Participated in preparation of global and regional environmental outlook-UNEP (GEO-2, GEO-3, SOE- National reports, North Africa and SOE-Arab Region), prepared sections on biodiversity, forests and multilateral/ international agreements.
- Reviewer in Millennium Ecosystem Assessment.
- Attended and coordinated many training courses and workshops in the field of environmental conservation, desertification, biodiversity, protected areas, environmental communication and education.
- Undertaken refereeing work for many international, regional and national scientific journals and organizations.
- Executive editor of Egyptian Journal of Botany, editor in and reviewer in many international journals.
- External examiner for M.Sc. and Ph.D. students in many national and regional universities.

- Supervision of about 45 M.Sc and Ph.D degrees in different Universities and Research Institutes.
- Implemented five research projects (in the field of conservation, desertification, medicinal plants, mangroves and economically important wild plants) as principal investigator or Co-PI.
- Referee for promotion of university staff members at national and regional levels.
- English - Arabic translator for Scientific American journal.
- Resource person and undertaken consultancy work for many organizations in the fields of desertification, biodiversity, protected areas and environmental impact assessment, including, UNEP, UNESCO, CEDARE, Arab League, ICARDA, EEAA, FAO, AOAD, etc.
- Environmental advisor for Center of Environment and Development for the Arab Region and Europe (CEDARE) in the field of land resources (natural protectorates, biodiversity and desertification) since December 1997.
- June 2002 – May 2003. Director, Sector of Environmental Impact Assessment, EEAA, Ministry of Environment, Egypt.

Fellowships and memberships

Fellow of the world Academy of Art and Science (WAAS); Biodiversity advisor and International Jury member for the International Slow Food (Italy); member of many international and national scientific societies.

Research area and interests

- Population and community ecology of desert, mountain and coastal plants - at standing vegetation and seed bank levels;
- Biodiversity, climate change, conservation ecology and management of protected areas;
- Biotic interactions among plants including allelopathy;
- Environmental biotechnology, molecular ecology and impact assessment;
- Effect of environmental pollution on plants (e.g. cement dust and crude oil, solid waste); and
- Phytoremediation/ bioremediation and restoration ecology of degraded ecosystems.

Published work

- (1) Over 180 publications, technical reports and studies on plant ecology, environmental biotechnology, phytoremediation, restoration ecology, conservation, biodiversity and climate change. Research papers published in international refereed journals and conferences (more than 30 international ISI journals).
- (2) Co-authored and edited four books.
- (3) Co-authored two encyclopedias: “*Encyclopedia of Deserts*” - edited by M. A. Mares, Oklahoma University Press; and “*Arabic Encyclopedia for Development*”. Published by Arab Academy of Sciences, Beirut.

Selected List of Publications

(Selected 90 original papers out of more than 180 publications till December 2011)

- Hegazy, A.K. (1990). Growth, phenology, competition and conservation of two desert hygrochastic annuals raised under different watering regimes. *Journal of Arid environments*, 19: 85-94.
- Hegazy, A.K. (1990). Population ecology and implications for conservation of *Cleome droserifolia*, a threatened xerophyte. *Journal of Arid Environments*, 19: 269-282.
- Fahmy, G.M., Hegazy, A.K. and Hassan, H.T. (1990). Phenology, pigment content and diurnal change of proline in green and senescing leaves of three *Zygophyllum* species. *Flora*, 184: 423-436.
- El-Tantawy, H., Hegazy, A.K., Fahmy, G.M. and Hashem, E.A. (1990). Drying out curves, survival and pigment content of two Mediterranean halophytes growing naturally along salinity gradient. *Egyptian Journal of Applied Science*, 5(3): 192-207.
- Hegazy, A.K., Mansour, K.S. and Abdel-Hady, N.F. (1990). Allelopathic and autotoxic effects of *Anastatica hierochuntica* L. *Journal of Chemical Ecology*, 16: 2183-2193.
- Hegazy, A.K. and Eesa, N.M. (1991). On the ecology, insect seed predation and conservation of a rare and endemic plant species: *Ebenus armitagei* (Leguminosae). *Conservation Biology*, 5: 317-324.
- Hegazy, A.K. and Moser, W. (1991). Water use efficiency, photosynthesis, extreme temperatures and drought tolerance of desert plant seedlings. *Folia Geobotanica et Phytotaxonomica*, 26: 263-276.
- Sayed, O.H. and Hegazy, A.K. (1991). Life table analysis and ecophysiology of *Mesembryanthemum nodiflorum* in its natural environment. *Acta Oecologica*, 12: 753-760.
- Hegazy, A.K. (1992). Age-specific survival, mortality and reproduction, and prospects for conservation of *Limonium delicatulum*. *Journal of Applied Ecology*, 29:549-557. Also, presented before the International Conference on High Salinity Tolerant Plants in Arid Regions. Al Ain, United Arab Emirates, Dec. 8-15, 1990.
- Mashaly, I.A., Hegazy, A.K. and Soliman, M.I. (1992). On the ecology of *Zygophyllum aegyptium* in Egypt. *Tasks of Vegetation Science*, 27(1): 423-433. Presented before the International Conference on High Salinity Tolerant Plants in Arid Regions. Al Ain, United Arab Emirates. December 8-15, 1990.
- Hegazy, A.K. and Ismail, S.M. (1992). Autecology of the desert monocarpic *Rumex cyprius* as influenced by water treatment. *Acta Oecologica*, 13: 193-202.
- Sayed, O.H. and Hegazy, A.K. (1992). Inhibition of secondary carotenoid biosynthesis during degreening of *Chlorella fusca* (Chlorococcales, Chlorophyta) and implications for growth and survival. *Cryptogamie - Algologie*, 13: 181-186.
- Hegazy, A.K. (1993). Application of theoretical models in wild plant use and conservation management. Presented before International Conference Towards the Development of a Sustainable Wildlife Conservation Strategy. Cabinet of Ministers, Egyptian Environment Affairs Agency. September 5-9, 1993. Sharm El-Sheikh, Sinai, Egypt.

- Abdel Hady, N. F., Abou Leila, B., Eskander, E. and Hegazy, A. K. (1993). Effects of three soil types on growth, photosynthetic pigments and Yield of soybean fertilized by algae. *Egyptian Journal of Applied Science*, 8(10): 52-64.
- Sayed, O.H. and Hegazy, A.K. (1994). Growth-specific phytomass allocation in *Mesembryanthemum nodiflorum* as influenced by CAM induction in the field. *Journal of Arid Environments*, 27: 325-329.
- El-Demerdash, M.A., Hegazy, A.K. and Zilay, A.M. (1994). Distribution of the plant communities in Tihamah coastal plains of Jazan region, Saudi Arabia. *Vegetatio*, 112: 141-151.
- Hegazy, A.K. (1994). Trade-off between sexual and vegetative reproduction of the weedy *Heliotropium curassavicum* L. *Journal of Arid Environments*, 27: 209-220.
- Hegazy, A.K., Soliman, M.I. and Mashaly, I.A. (1994). Perspectives on the biology of *Heliotropium curassavicum* in the Deltaic Mediterranean coast of Egypt. *Arab Gulf Journal of Scientific Research*, 12: 525-545.
- Hegazy, A.K. and Alsubaey, A.A. (1994). Allelopathic effect of *Glossonema edule* (Asclepiadaceae) on associated flowering plants and rhizosphere fungi. *Qatar University Science Journal*, 14(c) :165-168.
- Hegazy, A. K. and Al-Hajari, S. A. (1994). Vegetation and Management of tar piles on Qatar coastal Marshes. *Journal KAU of Marine Sciences*, 7 (special issue): 59-66.
- Hegazy, A.K. (1995). Phytomonitoring and Management of tar piles on the Qatari coastal marshes. *Environmental Pollution*, 90: 187-190.
- Hegazy, A.K. and Fadl-Allah, E.M. (1995). Inhibition of seed germination and seedling growth by *Cleome droserifolia* and allelopathic effect on rhizosphere fungi in Egypt. *Journal of Arid Environments*, 29:3-13.
- Azab, S.A. and Hegazy, A.K. (1995). Growth performance and plant water relations of seven Citrus rootstocks under the arid environment of Qatar. *Arab Gulf Journal of Scientific Research*, 13: 605-620.
- Hegazy, A.K. (1996). Application of mathematical models in management and use of candidate wild plants for restoration of degraded lands in the Arab Gulf region. *Arab Gulf Journal of Scientific Research*, 14: 223-248. (in arabic + english summary).
- Hosni, H.A. and Hegazy, A.K. (1996). Contribution on Flora of Asir, Saudi Arabia. *Candollea*, 51: 169-202.
- Hegazy, A. K. (1996). Effects of cement-kiln dust pollution on the vegetation and seed bank species diversity in the eastern desert of Egypt. *Environmental Conservation*, 23:249-258.
- Hegazy, A. K. (1997). Plant succession and its optimization on tar polluted coasts in the Arabian Gulf region. *Environmental Conservation*, 24: 149-158.
- Hegazy, A. K. (1997). Allelopathic effect of *Glossonema edule* in Qatar. *Allelopathy Journal*, 4: 133-138.
- Mohammed, S. Z. and Hegazy, A. K. (1997). Life table analysis and natural pearl production of the pearl oyster *Pinctada radiata* L. in Qatari waters, Arabian Gulf. *Journal of the Egyptian German Society of Zoology*, 22(D): 127-148.
- Hegazy, A.K. (1997). Application of mathematical models in wild plant use and conservation management in Egypt: Case study. PP. 261-178. in H. N. Barakat & A. K. Hegazy (eds.), *Reviews in Ecology: Desert Conservation and Development*. Metropole, Cairo, Egypt. 331 pp.

- Hegazy, A.K. and El-Amry, M.I. (1998). Leaf temperature of desert sand dune plants: perspectives on the adaptability of leaf morphology. *African Journal of Ecology*, 36: 34-43.
- El-Amry, M.I. and Hegazy, A.K. (1998). Age-specific changes of acidity, phosphoenolpyruvate carboxylase, ribulose-1,5-biphosphate carboxylase/oxygenase, abscisic acid and leaf water potential in *Mesembryanthemum nodiflorum*. *Biologia Plantarum*, 40: 219-228.
- Hegazy, A. K. (1998). Perspectives on phenology, survival and productivity of *Avicennia marina* in the Qatari coasts, Arabian Gulf. *Journal of Arid Environments*, 40: 417-429.
- Hegazy, A. K., El-Demerdash, M.A. and Hosni, H.A. (1998). Vegetation, species diversity and floristic relations along an altitudinal gradient in south-west Saudi Arabia. *Journal of Arid Environments*, 38: 3-13.
- Khedr, A. A. and Hegazy, A. K. (1998). Ecology of the rampant weed *Nymphaea lotus* L. Willdenow in natural and ricefield habitats of the Nile delta, Egypt. *Hydrobiologia*, 386: 119-129.
- Hegazy, A. K. and Fahmy, G. M. (1999). Host-parasite allelopathic potential in desert plants. Pp. 301-312. In F. A. Macias, J. C. G. Galindo, J. M. G. Molinillo & H. G. Cutler (eds.), *Recent Advances in Allelopathy: a Science for the Future*. Servicio de Publicaciones, Universidad de Cadiz / I.A.S.
- El-Khatib, A. A. and Hegazy, A. K. (1999). Growth and physiological responses of wild oats to the allelopathic potential of wheat. *Acta Agronomica Hungarica*, 47: 11-18.
- Hegazy, A. K. (2000). Intra-population variation in reproductive ecology and resource allocation of the rare biennial species *Verbascum sinaiticum* in Egypt. *Journal of Arid Environments*, 44: 185-196.
- Hegazy, A. K. (2001). Reproductive diversity and survival of the potential annual *Diploaxis harra* (Forssk.) Boiss. (Brassicaceae) in Egypt. *Ecography*, 24: 403-412.
- Hegazy, A. K., Fahmy, A. G. and Mohamed, H. (2001). Shayeb El-Banat mountain group on the Red sea coast: a proposed biosphere reserve. Presented before Symposium on Natural Resources and their Conservation in Egypt and Africa. 19-21 March 2001, Cairo University, Egypt.
- Hegazy, A. K. and El-Khatib, A. A. (2001). Growth and energy content of three forage grasses from the Middle East rangelands. *Acta Agronomica Hungarica*, 49: 119-131.
- Hegazy, A. K., Amer, W. M. and Khedr, A. A. (2001). Allelopathic effect of *Nymphaea lotus* L. on growth and yield of cultivated rice around lake Manzala (Nile Delta). *Hydrobiologia*, 464: 133-142.
- Hegazy, A. K. (2001). Diversity of functional types of the medicinal plant *Diploaxis harra* (Forssk.) Boiss. (Brassicaceae) in Egypt. Pp 79-90. Proceedings of the Workshop on Agricultural and Quality Aspects of Medicinal and Aromatic plants. May 29- June 1, 2001, Adana, Turkey.
- Amer, W. M. and Hegazy, A. K. (2001). Impact of Solid wastes auto-incineration on plants. Pp. 81-87. Proceedings of the Fourth Middle East Conference on the Role of Environmental Awareness in Waste Management. 10-12 November 2001), State of Kuwait.
- Hegazy, A. K. and El-Tantawy, H. (2002). Significance of allelopathy in conservation ecology of *Acacia tortilis* in South Sinai natural protectorates. Paper presented

- before the Third World Congress on Allelopathy: Challenge for the New Millennium. 26-30 August 2002, Tsukuba, Japan.
- Hegazy, A. K. and Amer, W. M. (2003). Altitudinal and latitudinal diversity of the flora on the eastern and western sides of the Red sea. Pp. 197-216. In B. Sener (ed.), Biodiversity: Biomolecular Aspects of Biodiversity and Innovative Utilization. London: Kluwer Academic/plenum Publishers. 426 pp.
- Soliman, M. S. A., Hegazy, A. K., Hassan, L. M. and El Adawi, H. A. (2003). Cytogenetic study on some dominant Egyptian xerophytes in Katamiya-Ain Sokhna area. Egyptian Journal of Genetics and Cytology, 23: 65-74.
- Hegazy, A. K., Ali, A. A., Khadr, F. G. and Azab, E. M. (2003). Site-dependent variation in populations of *Avicennia marina* (Forssk.) Vierh. In Southern Sinai, Egypt. *Taeckholmia*, 23: 165-178.
- Barakat, N., Mussa, S. A. I., Elfiky, A. and Hegazy, A. K. (2003). Ecophysiology of *Cleome droserifolia* (Forssk.) Delil. and *Diplotaxis harra* (Forssk.) Boiss. in the Egyptian eastern desert. *Journal of Union of Arab Biologists*, 11(B): 1-16.
- El-Khatib, A. A., Hegazy, A. K. and Galal, H. K. (2004). Allelopathy in the rhizosphere and amended soil of *Chenopodium murale* L. *Weed Biology and Management*, 4: 35-42.
- El-Khatib, A. A., Hegazy, A. K. and Galal, H. K. (2004). Does allelopathy have a role in the ecology of *Chenopodium murale*? *Annals Botanici Fennici*, 41: 37-45.
- Hegazy, A. K., Fahmy, G. M., Ali, M. I. and Gomaa, N. H. (2004). Vegetation diversity in natural and agro-ecosystems of arid lands. *Community Ecology*, 5: 163-176.
- Hegazy, A. K., Fahmy, G. M., Ali, M. I. and Gomaa, N. H. (2005). Growth and phenology of eight common weed species. *Journal of Arid Environments*, 61: 171-183.
- Hassan, L. M., Hegazy, A. K. and Soliman, M. S. A. (2005). Phytosociological and floristic features of Bir Gendali Hyperarid desert, Egypt. *Egyptian Journal of Desert research*, 55: 1-17.
- Hegazy, A. K., El Fiky, A. and Kabiell, H. F. (2005). Spatial pattern and mulching effect of *Anastatica hierochuntica* L. on structure and function of some desert plants. PP. 57-63. *Proceedings of the Fourth World Congress on Allelopathy: Establishing the Scientific Base*. Charles Sturt University, Wagga Wagga, Australia. 21-26 August 2005.
- Hegazy, A. K., Barakat, H. N. and Kabiell, H. F. (2006). Anatomical Significance of the Hygrochastic movement in *Anastatica hierochuntica*. *Annals of Botany (UK)*, 97: 47-55.
- Hegazy, A. K. and Elhag, M. (2006). Considerations of Demography and Life Table Analysis for Conservation of *Acacia tortilis* in South Sinai. *World Applied Sciences Journal*, 1(2): 1-10.
- Hegazy, A. K. and Kabiell, H. F. (2007). Significance of microhabitat heterogeneity in the spatial pattern and size-class structure of *Anastatica hierochuntica* L. *Acta Oecologica*, 31: 332-342.
- Hegazy, A. K., Lovett-Doust J., Hammouda O., and Gomaa N. H. (2007). Vegetation distribution along the altitudinal gradient in the northwestern Red Sea region. *Community Ecology*, 8: 151-162.
- Hegazy, A. K., Goda, S. K. and Farrag, H. F. (2007). Protein expressions of some cultivated and weed plants in response to invasive plant mulching. *Global Journal of Molecular Sciences*, 2: 1-7.

- Hegazy, A. K. and Farrag, H. F. (2007). Allelopathic potential of *Chenopodium ambrosioides* on germination and seedling growth of some cultivated and weed plants. *Global Journal of Biotechnology and Biochemistry*, 2: 1-9.
- Fawzy M., Hegazy A. K. and Galal H. K. (2007). Growth and Phytomass Allocation of *Zygophyllum decumbens* in Depression and Gravel Plain Habitat Types. *Bulletin Faculty of Science Cairo University*, 75(C): 1-18.
- Medany, M. A., Hegazy, A. K., Kabiell, H. F. and Maez, M. M. (2007). Prediction of seed germination and seedling growth of four crop plants as affected by root zone temperature. *World Journal of Agricultural Sciences*, 3(6): 714-720.
- Fahmy, G. M., Hegazy, A. K., Ali, M. I. A. And Gomaa, N. A. (2007). Structure-function relations of leaves in 24 species of winter and summer weeds. *Global Journal of Environmental Research*, 1 (3): 103-116.
- Fawzy M., Hegazy A. K. and Barakat, N. (2008). Spatial and Temporal Dynamics of *Zygophyllum decumbens* Populations in Two Habitat Types. *El-Minia Science Bulletin*, 19: 26-47.
- Hegazy, A.K., Mussa, S.A.I and Farrag, H.F. (2008). Invasive Plant Communities in the Nile Delta Coast. *Global Journal of Environmental Research*, 2 (1): 53-61.
- Hegazy, A.K., Hammouda, O., Lovett-Doust, J. & Gomaa, N.H. (2008). Population dynamics of *Moringa peregrina* along altitudinal gradient in the northwestern sector of the Red Sea. *Journal of Arid Environments*, 72: 1537-1551.
- Hegazy, A.K., Medany, M.A., Kabiell, H.F. & Maez, M.M. (2008). Spatial and temporal projected distribution of four crop plants in Egypt. *Natural resources Forum (United Nations)*, 32: 316-324.
- Abdel-Ghani N. T, Hegazy A. K., El-Chaghaby G. A. (2009). *Typha domingensis* leaf powder for decontamination of aluminium, iron, zinc and lead: Biosorption kinetics and equilibrium modeling. *International Journal of Environmental Sciences and Technology*, 6 (2): 1-8.
- Abdel-Ghani, N.T., Hegazy, A. K., El-Chaghaby, G.A. & Eder C. Lima (2009). Factorial experimental design for biosorption of iron and zinc using *Typha domingensis* phytomass. *Desalination*, 249: 343–347.
- Hegazy, A. K., Kabiell, H.F. & M. Fawzy (2009). Duckweed as heavy metal accumulator and pollution indicator in industrial wastewater ponds. *Desalination and Water Treatment*, 12: 400–406.
- Lovett-Doust J., Hegazy A. K., Hammouda O. & Gomaa N. H. (2009). Abundance-occupancy relationships and implications for conservation of desert plants in the northwestern Red Sea region. *Community Ecology*, 10: 91-98.
- Hegazy A.K., Hammouda O., Lovett-Doust J. & Gomaa N.H. (2009). Variations of the germinable soil seed bank along the altitudinal gradient in the northwestern Red Sea region. *Acta Ecologica Sinica*, 29: 20–29.
- Abdel-Rahman, T. M. A., Hegazy, A. K., Sayed, M. A., Kabiell, H. F., El-Alfy, T. and El-Komy, S. M. (2010). Study on combined antimicrobial activity of some biologically active constituents from *Moringa peregrine* Forssk. *Journal of Yeast and Fungal Research*, 1: 15-24.
- Hegazy, A. K., Mohamed, A. A., Ali, S. I. and Saker, M. M. (2010). Enhancement of callus induction and cucurbitacin content in *Citrus colocynthus* L. (Schrader) using plant growth regulators. *Journal of Alabama Academy of Science*, 81: 23-35.
- Hegazy, A.K., Kabiell H.F., Boulos L. & Sharashy O.S. (2010). Conservation approach on the demography and dynamics of protected and unprotected populations of the

- endemic *Ebenus armitagei* in the Western Mediterranean Coast of Egypt. *Journal for Nature Conservation*, 18: 151–158.
- Hegazy, A. K., Kabil, H. F., Boulos L. & Sharashy, O. S. (2010). Functional traits and life history diversity of the endemic *Ebenus pinnata*. *Flora*, 205: 666-673.
- Hegazy, A. K. and Kabil, H. F. (2010). Size-class structure and growth traits of *Anastatica hierochuntica* L. populations as rainfall indicators in aridlands. *Journal of Advanced Research*, 1: 331-340.
- Hegazy, A. K. and Emam, M. H. (2011). Accumulation and soil-to-plant transfer of radionuclides in the Nile Delta coastal black sand habitats. *International Journal of Phytoremediation*, 13:140–155.
- Mohamed, A. A., El-Baz, F. K., Ali, S. I., Saker, M. M. & Hegazy, A. K. (2011). Alteration of protein patterns in callus cultures of *Citrullus colocynthis* in relation to plant growth regulators. *Insight Biotechnology* (UK), 1: 1-6.
- El-Alfy, T. S., Ezzat, S. M., Hegazy, A. K., Amer, A. M. M. & Kamel, G. M. (2011). Isolation of biologically active constituents from *Moringa peregrina* (Forssk.) Fiori. (Family Moringaceae) growing in Egypt. *Pharmacognosy Magazine*, 7: 109-115.
- Soliman, M. S. A., Hegazy A. K., Goda S. K., Emam M. H. and Alatar, A. A., (2011). Cytotoxicity and mutagenic effects of soil radionuclides on some black sand. *Journal of Mediterranean Ecology*, 11: 5-20.
- Hegazy, A. K., Abdel-Ghani, N. T., El-Chaghaby, G. A. (2011). Phytoremediation of industrial wastewater potentiality by *Typha domingensis*. *International Journal of Environmental Sciences & Technology*, 8: 639-648.
- Hegazy, A. K., Boulos, L., Kabil, H. F. & Sharashy, O. S. (2011). Vegetation and species altitudinal distribution in *Al-Jabal Al-Akhdar* landscape. *Pakistan Journal of Botany*, 43: 1885-1898.
- Hegazy, A. K., Lovett-Doust, J. & El Adawy, H. A. (2011). Size- and season- related sex expression and reproductive performance in gynodioecious *Ochradenus baccatus* Delile (Resedaceae) at Wadi Degla, Egypt. *Flora*, 206: 1002-1011.
- El-Bakatoushi, R., Hegazy, A. K., Saad, H. and Fawzy, M. (2011). Genetic diversity in coastal and inland desert populations of *Peganum harmala*. *African Journal of Biotechnology*, 10 (71): 15883-15890.
- Hegazy, A. K., Emam M. H. & Alatar, A. A. (2011). Growth and reproductive attributes of radionuclides phytoremediators in the Mediterranean coastal black sands. *African Journal of Biotechnology*, 10 (74): 16781-16792.
- Hegazy, A. K., Abdel-Ghani, N. T., El-Chaghaby, G. A. (2011). Factorial experimental design for biosorption of heavy metals using *Typha domingensis* phytomass. *Desalination and Water Treatment*, 36: 392–399.

Summary Curriculum Vitae

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Graduate of Cairo University (B.Sc. & M.Sc.) and Alberta University, Canada (Ph.D.). Leading a research group in the field of plant ecology. Supervision of over 45 Ph.D. and M.Sc. students in different universities and research institutes. Research areas cover population and community ecology of desert, coastal and mountain ecosystems; biodiversity, conservation ecology and management of protected areas; biological interactions; allelopathy; environmental pollution, phytoremediation, restoration ecology; and environmental impact assessment. Published over 150 publications, edited and co-authored 4 books and two encyclopedia. Implemented some research programs in Egypt and some Arab countries (Libya, Sudan, Qatar and Saudi Arabia). National coordinator and Principal investigator of many research projects. Teaching more than 10 graduate and undergraduate courses in Egyptian and other Arab and Canadian universities. Delegated and seconded to about 10 Egyptian and regional Universities. Visiting fellow to some British and Canadian universities. Editor, World Journal of Agricultural Sciences. Undertaken some refereeing work for international scientific journals, including Environmental Conservation, Journal of Chemical Ecology, Journal of Arid Environments, Scientific American (Arabic version), and many national and regional journals. Coordinated, facilitated and participated in many training courses, workshops, public awareness programs in the fields of conservation, biodiversity, protected areas, sustainable development, environmental communication and education, and other environmental fields. Participated in more than 90 international conference and workshop on environmental subjects and plant ecology in more than 30 countries. Environmental advisor and resource person for many international organizations in the field of environment and conservation of plant species (UNEP, UNESCO, CEDARE, Arab League, ICARDA, EEAA, FAO, AOAD, etc.). Former Head of Environmental Impact Assessment Sector (Ministry of Environment, Egypt (2002& 2003)). External examiner for Ph. D. and M. Sc. degrees in many Universities. Referee for promotion of university staff members and project evaluation and follow up in some regional universities. English-Arabic translation of environmental articles for Scientific American Journal. Participated in preparation of global and regional environmental outlook-UNEP (GEO-2, GEO-3, SOE-North Africa and SOE-Arab Region), prepared sections on biodiversity, forests and multilateral/ international agreements. Reviewer in Millennium Ecosystem Assessment. Fellow of the World Academy of Art and Science, International jury for the International Slow Food Award, Regional Coordinator of the International Allelopathy Society, and member of some national and international academic societies concerned with environment. Winner of national prizes; State prize in environmental research and education (2003); State prize for encouragement in biological science (2000) and State prize for environment protection in the field of biodiversity and protected areas (1997), Cairo University Prize for Excellency in Research (2006). International publications award- Cairo University (since its establishment till now), Silver Medal of Food and Agriculture Organization of United Nations-FAO (2002). Principal investigator and national advisor of many national and regional research projects in Egypt and Saudi Arabia.