



Curriculum Vitae

1. Personal Data:

Name: Abdel-Raouf Abdel-Rahman
Moustafa

Date and place of Birth: 12-28-1958, Ismailia

Citizenship: Egyptian

Present address: Botany Department, Faculty of Science,
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Present position: Professor of Plant Ecology and Head of Botany
Dept., Faculty of Science, Suez Canal University,
Ismailia, Egypt.

2. Academic Qualifications

Education

University	Degree	Year
Harvard University	Ph.D. in Ecology	1991
Suez Canal University	M. Sc. in Ecology	1986
Suez Canal University	B. Sc. in Botany	1981

Titles of Thesis

Ph.D.: Environmental Gradient and species distribution on Sinai Mountains.

M.Sc.: Ecological and phytochemical studies on some species of Labiatae growing in Sinai.

3. Experiences:

A. Management Projects:

1- Management the research activities in Saint Catherine research center (1982-1998). This included the following:

- a. Reconstruction the center to be appropriate for different research programs (botany, zoology, and geology).
- b. Building up a specialized library in Sinai topics, a herbarium with more than 4000 plant samples, and a small natural museum with representative samples of most South Sinai fauna.
- c. Regulating the center to held the international and national conferences
- d. Setting up the most priority fields of study including the plant ecology, taxonomy, phytochemistry, zoology, and geology with my thirteen colleges in the center.

2-Project of developing the Saint Catherine Environmental Research Center (1991-1993)

The project was a co-operation program between North Carolina University (USA), and Suez Canal University (Egypt).

The project was focused on:

- a. Developing the staff member of Saint Catherine Research Center, supporting the herbarium, and reconstructing a natural museum constitute all forms of wildlife in South Sinai area.
- b. Funding the research programs including plant ecology, taxonomy, and zoology

3- Project of Baseline studies of Saint Catherine Protectorate (1993-1994).

- a. The project was focused on the wild flora, geology and ground water of Saint Catherine protectorate area. EEAA, Egypt.
- b. My role was to do the first botanical survey and to write a suggested plan for management and the main ideas concerning the construction of Saint Catherine Protectorate

4- Project of construction a herbarium in Saint Catherine (1996-1999). This project was funded by the Scientific Research Academy (Basic Science Research Council) and Suez Canal University (Faculty of Science). I was the head of the research project group and my role was also to survey the mountainous area of Saint Catherine area especially Wadi Gebal area and Saint Catherine mountain.

B. Medicinal plant projects

1- Project of Evaluation of Medicinal Plants growing in Suez Canal and South Sinai Area. (1982-1986).

The project was a co-operation between Maryland University (USA), and Suez Canal University (Egypt). My role was to study the ecology of the most common medicinal plant in South Sinai and Suez Canal territory.

2- Project of Conservation and sustainable use of medicinal plants in arid and semi-arid ecosystems of Egypt (St. Catherine, Sinai) (1999-2000).

This project was funded by Egyptian Environmental Affairs Agency (EEAA), United Nations Development Program (UNDP), and Global Environmental Facility (GEF). My role was to evaluate the botanical status especially the medicinal, endemics and potential plant species in South Sinai.

3- Project of Conservation and sustainable use of medicinal plants in arid and semi-arid ecosystems of Egypt (National Survey – 2. North Sinai) (2005-2006).

This project was funded by Egyptian Environmental Affairs Agency (EEAA), United Nations Development Program (UNDP), and Global Environmental Facility (GEF). My position is the deputy principle investigator of the project.

C. Conservation projects

1-Project of Botanical Survey of Saint Catherine Protectorate (1997-1998).

This project was focused on the plant species diversity in Saint Catherine Protectorate, South Sinai, Egypt and funded by E.U.(Design SA & Tebodin BV., Member of the Euronet consulting.134 pp) and EEAA. It aimed to create a suggested management plan based on the output results.

2- Project of Botanical Conservation Measures and Ecological monitoring (1998-2001)

This program was funded by Saint Catherine Protectorate, EEAA, Egypt. It aimed to monitored the expected changes in the constructed enclosures from grazing and investigate the effect of fencing on the threatened species.

3-Project of Botanical Conservation Measures and Ecological monitoring Program (2001-2001).

This program was the second phase of the previous project and funded by Saint Catherine Protectorate, EEAA, Egypt.

4- Project of *Acacia* Conservation and rehabilitation (1998-2000)

Funded by Saint Katherine Protectorate Development project, EEAA, Egypt.

This project included the following points:

- a. Bedouin support program through cultivation and regeneration the *Acacia* in the natural habitats (large scale cultivation).
- b. Conservation and monitoring thirteen big enclosures that are containing *Acacia* trees.

5- Project of Demography and age dating of *Acacia* sp. in Saint Catherine Protectorate (2001-2002)

Funded by Saint Katherine Protectorate Development project, EEAA, Egypt.

This project aimed to determine the average age of *Acacia* population and the most important population in the whole area of south Sinai.

6- Conservation and sustainable use of *Moringa peregrina*, an economically valuable medicinal plant. Funded through the US and Egypt Science and technology joint fund (2004-2006).

4. Conferences and Seminars

1. **1985.** Conference of the Egyptian Botanical Society- Saint Catherine.
2. **1992.** The Fifth Egyptian conference of Botany. “Botany and Development of Sinai)-Saint Catherine. Organized by the Egyptian Botanical Society in cooperation with Suez Canal University.
3. **1992.** Conference of the UNEP. Organized by UNEP and Suez Canal University-Dec. 1992. The Second Meeting for studying the effects of climatic changes along the Red Sea and Gulf of Aden.
4. **1993.** The first Egyptian-Hugarian conference on Environment, Saint Catherine, Sinai, Egypt, April 5-7, 1993. Talk about the importance of medicinal plants and its distribution in mountainous areas.
5. **1993.** The Fourth International Conference on Desert Development, August, 1993, Mexico.
6. **1994.** Conference of Physics, “Development of Teaching physics for non-specialist. July 1994.
7. **1994.** International Workshop “: Sustainable land-use in the arid near East. December, 1994.
8. **1994.** The first international Scientific Conference. “Science and Development”. Cairo 20-23 March, 1995. Organized by Faculty of Science, Azhar University
9. **1994.** Conference of Arab Biologists (November 3-8, 1996). Environmental factors affecting endemic species, species richness and species diversity in Saint Catherine Protectorate, South Sinai, Egypt. J. Union Arab Biol.
10. **1998** Conference of Sustainable Land use in Deserts. Impact of Grazing on the Vegetation of South Sinai, Egypt. In Sustainable Land Use in Deserts. 218-228) Edited by S.-W. Breckle, M. Veste, W. Wucherer.

5. List of Publications:

1. HELMY M. A., EL-MONAYERI, M. O. HELMY, M. A. AMMAR, **ABDEL-RAOUF A. MOUSTAFA (1989)**. Chemical composition of Five Labiatae species growing in different habitats of Saint Catherine area, South Sinai, Egypt. *Desert Inst. Bull. A.R. E.* 34 (2): 357-367
2. HELMY M. A., EL-MONAYERI, M. O. HELMY, M. A. AMMAR, **ABDEL-RAOUF A. MOUSTAFA (1989)**. Ecological and sociological studies on the vegetation of Saint Catherine, South Sinai, Egypt. II The terraces habitats. *Desert Inst. Bull. A.R. E.* 39 (2): 357-387
3. EL-MONAYERI, M. O. HELMY, M. A. AMMAR, **ABDEL-RAOUF A. MOUSTAFA (1989)**. Ecological and sociological studies on the vegetation of Saint Catherine, South Sinai, Egypt. I. The Wadi bed and slopes habitats. *Desert Inst. Bull. A.R. E.* 39 (2): 323-355
4. **ABDEL-RAOUF A. MOUSTAFA** AND MOHAMMED S. ZAGHLOUL (1993). Environmental factors affecting the distribution of plant species in gorge habitats, South Sinai, Egypt. *Proc. 1st Conf. Egypt Hung. Env. Egypt*, 268-274.
5. **ABDEL-RAOUF A. MOUSTAFA (1994)**. The vegetation of UM-Alawi area, South Sinai, Egypt. *Proc. IV Inter. Conf on Desert Develop. Mexico*, 650-659.
6. **ABDEL-RAOUF A. MOUSTAFA** AND JEFFREY M. KLOPATEK (1995). Vegetation and landforms of the Saint Catherine area, southern Sinai, Egypt. *Journal of Arid Environments*, 30: 385-395.
7. **ABDEL-RAOUF A. MOUSTAFA** AND WAFAA M. KAMEL (1996). Ecological notes on the floristic composition and endemic species of Saint Catherine area, South Sinai. *Egypt. J. Bot.* 35 (2): 177-200.
8. **ABDEL-RAOUF A. MOUSTAFA**, M.A. HELMY, RAAFAT H. ABDEL-WAHAB, AND K. H. BATANOUNY (1996). Phenology, Germination and Propagation of some wild trees and shrubs in south Sinai, Egypt. *Egypt J. Bot.* 36 (1): 91-107.

9. M. A. HELMY, **ABDEL-RAOUF A. MOUSTAFA**, RAAFAT H. ABD EL-WAHAB AND K. H. BATANOUNY (1996). Distribution behavior of seven common shrubs and trees growing in South Sinai, Egypt. *Egypt. J. Bot.* 36 (1): 53-70.
10. **ABDEL-RAOUF A. MOUSTAFA** AND A. ZAYED (1996). Effect of environmental factors on the flora of alluvial fans in Southern Sinai. *Journal of Arid Environments*, 32: 431-443.
11. **ABDEL-RAOUF A. MOUSTAFA** AND MOHAMMED S. ZAGHLOUL (1996). Environment and vegetation in the montane Saint Catherine area, South Sinai, Egypt. *Journal of Arid Environments*, 34: 331-349.
12. **ABDEL-RAOUF A. MOUSTAFA**, ADEL A. RAMADAN, MOHAMMED S. ZAGHLOUL AND M. A. HELMY MANSOUR (1999). Environmental factors affecting endemic species, species richness and species diversity in Saint Catherine Protectorate, South Sinai, Egypt. *J. Union Arab Biol*, 9(B): 419-446.
13. **ABDEL-RAOUF A. MOUSTAFA** (2000). Environmental Factors and Grazing Intensity affecting the vegetation composition of Saint Catherine Mountains, South Sinai. *Egypt. J. Bot.*, 40(1): 91-114.
14. Magda H. Gazer, **Abd El-Raouf A. Moustafa**, and Wafaa M. Kamel (2000). Ecological notes and Floristic Composition of Gebel El-Halal, North Sinai, Egypt. *Bull. Fac. Sci. Assiut Univ.*, 29: 323-334.
15. **ABDEL-RAOUF A. MOUSTAFA**, ADEL A. RAMADAN, M. SAAD ZAGHLOUL, AND M. A. HELMY (2001). Characteristics of two endemic and endangered species (*Primula boveana* and *Kickxia macilenta*) growing in south Sinai. *Egypt. J. Bot.* 41: 17-39.
16. **ABDEL-RAOUF A. MOUSTAFA** (2001). Impact of Grazing intensity and Human disturbance on the population Dynamics of *Alkanna orientalis* growing in Saint Catherine Mountains, South Sinai, Egypt. *Pakistan J. Biol. Sci.* 4(8): 1020-1025.

17. MOHAMED A. AYYAD, AMAL M FAKHRY AND **ABDEL-RAOUF A. MOUSTAFA (2001)**. Plant biodiversity in Saint Catherine area of the Sinai Peninsula, Egypt. *Biodiversity and conservation*, 9: 265-281.
18. **ABDEL RAOUF A. MOUSTAFA (2002)**. Distribution behavior and seed germination of *Alkanna orientalis* growing in Saint Catherine Protectorate. *Pakistan J. Biol. Sci.* 5 (4): 427-433.
19. **ABDEL-RAOUF A. MOUSTAFA (2002)**. Impact of Grazing on the Vegetation of South Sinai, Egypt. *Sustainable Land Use in Deserts*. pp 218-228, Edited by S.-W. Breckle, M. Veste, W. Wucherer. Germany, Springer.
20. **ABDEL-RAOUF A. MOUSTAFA, MOHAMED S. ZAGHLOUL, RAAFAT H. ABDEL WAHAB AND MOHAMED SHAKER (2002)**. Evaluation of plant diversity and endemism in Saint Catherine Protectorate, South Sinai, Egypt. *Egypt. J. Bot.*, 41; 123-141
21. RAAFAT H. ABD EL-WAHAB, MOHAMED S. ZAGHLOUL AND **ABDEL-RAOUF A. MOUSTAFA (2004)**. Conservation of Medicinal Plants in St. Catherine Protectorate, South Sinai, Egypt. I. Evaluation of ecological status and human impact. *Proc. I Inter. Conf. on Strategy of Egyptian Herbaria, Giza, Egypt*, 231-251.

6. Education:

List of the courses prepared and taught by **Prof. Abdel Raouf Abdel Rahman Moustafa** to Under and Postgraduate Students of Faculty of Science and Undergraduate and Educational Qualification Students of Faculty of Education from 1992 till now.

1. Biodiversity
2. Conservation
3. Plant Anatomy
4. Plant Morphology
5. Plant Systematic
6. Phytosociology
7. Flora
8. Biological applications
9. Computer and Biostatistics
10. Pollution
11. Population Ecology
12. Protected areas
13. Advanced Plant Ecology
14. Desert Ecology

7. Public Seminars:

1. Biodiversity of South Sinai and How to Conserve it.
2. The roles of Saint Catherine Environmental Research Center as a unique specialized unit in South Sinai on both the Local and Global levels.
3. The importance of the Medicinal Plants in the South Sinai area with special reference to their number, distribution and their uses.
4. Increase public awareness between the stalk holders and the inhabitants of these areas to reduce wild life exploitation.

8. Participation in the National and International Non-governmental Associations (NGOs):

1. Founder and the Deputy President of the Management Board of the Egyptian Society of Environmental Sciences (353/2004)
2. Member in the Egyptian Society of Botany
3. Member in the American Society of Ecology
4. Member in the Egyptian British Society of Biological Sciences
5. Member in the Egyptian Society of Natural Toxins
6. Member in the World Commotion on Protected Areas

9. Supervision on Scientific Thesis:

M.Sc. Thesis already done:

1. Reproduction Ecology of wild trees and shrubs in South Sinai, Egypt.
2. Ecological Studies on some endemic plants species in South Sinai, Egypt.
3. Establishing and monitoring the dynamic population of the *Acacia* species in Saint Catherine Protectorate.

Ph.D. Thesis already done:

1. Population ecology of genus *Ballota* growing in Southern Sinai, Egypt.
2. Ecological Evaluation of soil quality in South Sinai, Egypt.
3. Ecological studies on vegetation of wadi systems on South Sinai, Egypt.

Running M.Sc. Thesis:

1. Distribution behavior of plant species and human impact in Gaza Strip, Palestine.
2. Conservation and Monitoring of Threatened Plant Species in St. Katherine Protectorate.
3. Conservation of Plant Diversity of Mountain Serbal, South Sinai, Egypt.

Running Ph.D. Thesis:

1. Evaluation of biological and biochemical activities of some medicinal plant on experimental animals.