



## DR. MOHAMED S. ZAGHLOUL CURRICULUM VITAE

- Name** Mohamed Saad Zaghoul Abdou Abd-Rabou
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- E-mail** Zaghoul\_mohamed@yahoo.com
- Date of birth** 12/17/1968
- Nationality** Egyptian.
- Marital status** Married with two daughters and one son.
- Spoken languages** Arabic (native), and English (fluently).
- Professional career**
- 8/11/1991 - 9/9/1997; demonstrator in Botany Department, Faculty of Science, Suez Canal University, Ismailia, Egypt.
  - 9/10/1997 – 7/21/2003; assistant lecturer in Botany Department, Faculty of Science, Suez Canal University, Ismailia, Egypt.
  - 7/22/2003; lecturer (assistant professor) of Environmental Sciences, Botany Department, Faculty of Science, Suez Canal University, Ismailia, Egypt.
  - March, 2004; general secretary of Egyptian Society for Environmental Sciences.
  - June, 2006; editor in International Journal for Environmental Sciences (CATRINA).
- Qualifications**
- B. Sc. In Botany on May 1990, Faculty of Science, Alexandria University, Egypt, with general grade of very good with honor degree.
  - Preliminary year certification in partial fulfillment for M. Sc. In Botany in September 1993, Faculty of Science, Suez Canal University, Egypt.
  - M. Sc. In Botany (Plant Ecology), August 1997, Faculty of Science, Suez Canal University.
  - TOEFL 597, Nov. 1998.
  - Diploma in "Conservation and Sustainable Use of Plant Biodiversity: Facing the Challenges of the Arid Lands of the Mediterranean", September 2000. Desert Research Center, Egypt, and Mediterranean Agronomic Institute of Chania, Greece.
  - Ph.D. in Environmental sciences, June 2003, Faculty of Science, Suez Canal University, and The University of Georgia, USA (visiting scholar for two years).
  - Educational Training course for future university instructors. Faculty of Education at Port Said, Suez Canal University, 5-26/4/2003.
  - Short course on "Developing Administrative skills for Faculties".

Faculty and leadership development program (FLDP). Suez Canal University, 21-24/5/2005.

- Introduction to Online Teaching and Learning: An Interactive Workshop, Beirut, Lebanon 5-9 September 2005. UNESCO.
- Short course on "Using Modern Technology in Education". Faculty and leadership development program (FLDP). Suez Canal University, 8-11/3/2007.

## Experiences and Interests

- Endemic and endangered plant species in arid ecosystems.
- Conservation biology.
- Population genetics.
- Mating systems analysis.
- Population genetics computer programs.
- Phytosociology of desert plant communities.
- Plant population dynamic.
- Seed germination.
- Soil seed bank.
- Multivariate analysis techniques.
- Statistical analyses.
- Online teaching.
- Population Viability Analysis.
- Ethnobotany.

## Theses

- **Zaghloul, M. S. (1997).** Ecological studies on some endemic plant species in South Sinai, Egypt. M. Sc. Thesis, Faculty of Science, Suez Canal University, 279pp.
- **Zaghloul, M. S. (2003).** Population ecology of genus *Ballota* growing in southern Sinai, Egypt. Ph.D. Thesis, Faculty of Science, Suez Canal University, 293pp.

## Publications

- **Moustafa, A. A, and Zaghloul, M. S. (1993).** Environmental factors affecting the distribution of plant species in gorge habitats, South Sinai, Egypt. *Proceeding of the 1<sup>st</sup>. Egyptian Hungarian Conference on Environment Egypt*, 268-274pp.
- **Moustafa, A. A, and Zaghloul, M. S. (1996).** Environment and vegetation in the montane Saint Catherine area, South Sinai, Egypt. *Journal of Arid Environments*, 34: 331-349.
- **Moustafa, A. A., Ramadan, A. A., Zaghloul, M. S., and Mansour, M. A. H. (1999).** Environmental factors affecting endemic species, species richness, and diversity in Saint Catherine Protectorate, South Sinai, Egypt. *Journal of Union Arab Biologists*, 9 (B): 419-446.
- **Ramadan, A. A., Moustafa, A. A., Zaghloul, M. S., and Mansour, M. A. H. (2000).** Eco-biological traits of two endemic species: *Nepeta septemcrenata* Benth. and *Origanum syriacum* L. in south Sinai mountains, Egypt. *Proceedings of 43<sup>rd</sup> IAVS Symposium*, Nagano 2000.
- **Moustafa, A. A., Ramadan, A. A., Zaghloul, M. S., and Mansour, M. A. H. (2001).** Characteristics of two endemic and endangered species (*Primula boveana* and *Kickxia macilenta*) growing in south Sinai. *Egyptian Journal of Botany*, 41: 17-39.
- **Moustafa, A. A., Zaghloul, M. S., Abdel-Wahab, R. H., and Shaker, M. (2001).** Evaluation of plant diversity and endemism in Saint

Catherine Protectorate, South Sinai, Egypt. *Egyptian Journal of Botany* 41: 123-141.

- **Abdel-Wahab, R. H., Zaghloul, M. S., and Moustafa, A. A. (2004).** Conservation of Medicinal Plants in St. Catherine Protectorate, South Sinai. I. Evaluation of ecological status and human impact. *Proceedings of First International Conference on Strategy of Egyptian Herbaria*. 231-251 March 9-11; Giza, Egypt.
- **Zaghloul, M. S., Hamrick, J. L., Moustafa, A. A., Kamel, W. M., and El-Ghareeb, R (2006).** Genetic Diversity Within and Among Sinai Populations of three *Ballota* species (Lamiaceae). *Journal of Heredity* 97(1) 45-54.
- **Abdel-Wahab, R. H., Zaghloul, M. S., and Moustafa, A. A (2006).** Vegetation of Mount Serbal, Sinai, Egypt. *Catrina* I (2): 9-20.
- **Zaghloul, M. S., Hamrick, J. L., and Moustafa, A. A. (2007)** Conservation of *Acacia tortilis* subsp. *raddiana* populations in Southern Sinai, Egypt. I- Genetic diversity and structure. *Catrina* II(1): 51-60.

#### Articles in press

- **Zaghloul, M. S., and Hamrick, J. L.** Conservation of *Acacia tortilis* subsp. *raddiana* populations in Southern Sinai, Egypt. II- Mating system analysis. *Egyptian Journal of Botany*.
- **Zaghloul, M. S., Moustafa, A. A., Kamel, W. M., Hamrick, J. L.; and El-Ghareeb, R.** Local distribution of three threatened *Ballota* species (Labiatae). *Egyptian Journal of Botany*.
- **Zaghloul, M. S., Abdel-Wahab, R. H., and Moustafa, A. A.** Conservation of *Acacia tortilis* subsp. *raddiana* populations in Southern Sinai, Egypt. III- Population Structure and Dynamics. *Bulletin of Assuit University*.
- **Kamel, W. M., Zaghloul, M. S., Abdel-Wahab, R. H., and Moustafa, A. A.** Current Status of the flora of North Sinai: Gains and Losses. *Catrina*

#### Articles in review

- **Zaghloul, M. S., Hamrick, J. L., Moustafa, A. A., Kamel, W. M., and El-Ghareeb, R.** Allozymic and Morphologic Differentiation between three *Ballota* Species (Labiatae) growing in Southern Sinai, Egypt. *Acta Botanica Hungarica*.
- **Zaghloul, M. S., Hamrick, J. L., Moustafa, A. A., Kamel, W. M., and El-Ghareeb, R.** Fitness of three *Ballota* species (Lamiaceae) growing in St. Catherine Protectorate, Egypt. *Egyptian Journal of Botany*.
- **Zaghloul, M. S.** Diversity and Spatial Variation of Sinai's Soil Seed Bank. *African Journal of Environmental Sciences*.

#### Articles in preparation

- **Zaghloul, M. S., Hamrick, J. L., Moustafa, A. A., Kamel, W. M., and El-Ghareeb, R.** Mating system analysis of three *Ballota* species (Lamiaceae).
- **Zaghloul, M. S., and Mansour, S. R.** Capability of using *Moringa peregrina* seeds to purify water in rural communities.
- **Zaghloul, M. S., Abdel-Wahab, R. H., and Mansour, S. R.** Effect of Carbon disulfide (CS<sub>2</sub>) emission by *Acacia tortilis* on bacterial growth in the Rhizoplane.
- **Zaghloul, M. S., Abdel-Wahab, R.H., and Moustafa, A.A.** Vegetation types and plant species diversity in north Sinai.

- **Mansour S.R., Taher, H.S., and Zaghoul, M. S.** Accumulation of Poly- $\beta$ -hydroxybutyrate (PHB) in Rhizobia regulated by pH.
- **Ramadan, A.A., Moustafa, A.A., Zaghoul, M.S., and Helmy, M.A.** Eco-biological traits of two endemic species: *Nepeta septemcrenata* Benth. and *Origanum syriacum* L. in South Sinai mountains, Egypt.

### Supervised Theses

- M.Sc. Thesis on "Conservation of Plant Diversity of Mountain Serbal, South Sinai, Egypt."
- M.Sc. Thesis on "Population dynamics of *Moringa peregrina* growing in South Sinai, Egypt."
- Ph.D. Thesis on "Genetic basis for polymorphic floral morphology of Sinai Primrose (*Primula boveana*)".
- M.Sc. Thesis on "Characterization of *Rhizobium* isolates nodulate Leguminous plants grown in different soil types."
- M.Sc. Thesis on "Biological aspects of Archaeobacteria isolated from unique habitats in Egypt".

### Conferences, Workshops, and Symposia

- The Fifth Conference of Egyptian Society for Botany, April, 1992, St. Catherine, Sinai, Egypt.
- The UNEP Workshop on the Red Sea area, December, 1992. St. Catherine, Sinai, Egypt.
- The First Egyptian Hungarian Conference on Environment. April 5-7, 1993. St. Catherine, Sinai, Egypt.
- Conference on Teaching Physics for non-Physicians. July, 1995. St. Catherine, Sinai, Egypt.
- Biostatistics Workshop, held by Egyptian British Society for Biological Sciences, 30 August - 1 September, 1997. Ismailia, Egypt.
- Logical frame work workshop for Conservation and Sustainable Use of Medicinal Plants in Arid and Semi-arid Ecosystems of Egypt (St. Katherine - Sinai). Egyptian Environmental Affairs Agency (EEAA), United Nations Development Program (UNDP), and Global Environmental Facility (GEF). Cairo, Egypt.
- Workshop on "Conservation and Sustainable Use of Plant Biodiversity: Facing the Challenges of the Arid Lands of the Mediterranean", September 2000. Desert Research Center, Egypt, and Mediterranean Agronomic Institute of Chania, Greece. El-Sheikh Zowaied, Sinai, Egypt.
- Conservation and Sustainable Use of Medicinal Plants in arid and semi-arid ecosystems of Egypt (St. Katherine, Southern Sinai) EGY/98/G43. Co-chairing *In Situ* Conservation Expert Meeting, January 2004. Egyptian Environmental Affairs Agency (EEAA), United Nations Development Program (UNDP), and Global Environmental Facility (GEF). Cairo, Egypt.
- The first International Conference on Strategy of Egyptian Herbaria, 9-11 March 2004. Cairo, Egypt.
- Second Training Course on "Field Ecology and Taxonomy", 27-30<sup>th</sup>, July 2004. Egyptian British Biological Society, United Nations Development Program (UNDP), and Global Environmental Facility (GEF). Ismailia, Egypt.
- The second scientific symposium of Egyptian Society of Natural Toxins on "Narcotic plants are illness and medicine", Dec. 12<sup>th</sup> 2005. Ismailia,

Egypt.

- The first international conference on “Conservation and sustainable use of Natural Resources”. Egyptian Society for Environmental Sciences, Ismailia, Egypt June 1-19, 2006 (Organizing committee member).
- The First Conference of the Egyptian Humboldtians "Science and Technology without Frontiers". Ismailia – Hotel Mercure. June 25- 28, 2007
- The second international conference on “The role of genetics and biotechnology in conservation of natural resources”. Egyptian Society for Environmental Sciences, Ismailia, Egypt July 9-10, 2007 (Coordinator).

**Membership of Scientific Societies**

- The Egyptian British Society for Biological Sciences.
- The Egyptian Society for Environmental Sciences (Founder and General Secretary since 2004).

**Teaching**

- Population genetics.
- Evolutionary biology.
- Cell biology and genetics.
- Biodiversity and conservation.
- Multivariate analysis.
- Plant Ecology.
- Quantitative genetics.
- Molecular genetic markers.
- Plant variation and evolution.
- Using molecular genetic markers in Taxonomy.
- Practical issues in conservation biology.
- Ethnobotany.

**Public Lectures**

- The role of molecular genetic markers in plant conservation (conservation genetics). In Second Training Course on "Field Ecology and Taxonomy", 27-30<sup>th</sup>, July 2004. Egyptian British Biological Society, United Nations Development Program (UNDP), and Global Environmental Facility (GEF). Ismailia, Egypt.
- Threatened plant species and conservation efforts in Egypt. Public lecture for students and teachers in "Al-Kodwa Al-Hassanah" girls' school in Alexandria, East Education Department.
- Second Training Course on "Field Ecology and Taxonomy", 27-30<sup>th</sup>, July 2004. Egyptian British Biological Society, United Nations Development Program (UNDP), and Global Environmental Facility (GEF). Ismailia, Egypt.

**Projects**

- The development of St. Catherine Environmental Research Center Herbarium project, from November 1996 until 1999. Funded by Egyptian Scientific Research Academy.
- Vegetation survey and assessment for St. Catherine Protectorate, Southern Sinai, Egypt, from November 1996 until February 1998. Funded by European Union (EC).
- The rationale for requesting an extension of WEP-2594 Project of the settlement of Sinai Bedouins for a third phase, 1996.
- Production of *Casuarina* Seedlings inoculated with *Frankia* as a nodulating bacteria, from 1996 until 1999.

- Biodiversity of St. Catherine National Park. A project supported by the British Council based at the Environmental Research Center of Suez Canal University, St. Catherine, Sinai, Egypt. From 1994 until April 1998.
- Assessment of natural resources of Wadi Wateir, Southern Sinai, Egypt. Funded by Egyptian Supreme Council of Universities, 1997 until 1998.
- Botanical Conservation Measures and Ecological Monitoring Program of St. Catherine Protectorate, from June 1998 until July 1999, Funded by European Union (EU).
- Conservation and Sustainable Use of Medicinal Plants in Arid and Semi-arid Ecosystems of Egypt (St. Katherine - Sinai). Egyptian Environmental Affairs Agency (EEAA), United Nations Development Program (UNDP), and Global Environmental Facility (GEF). From April 1999 until December 1999.
- *Acacia* Conservation and Rehabilitation Program (SEM 04/220/016 A - Egypt) in St. Catherine Protectorate, Sinai, Egypt. Funded by European Union (EC) from December 1999 until September 2000.
- Conservation and sustainable use of *Moringa peregrina*, an economically valuable medicinal plant in Egypt. Funded by U.S.-Egypt Joint Science and Technology Fund. 2004 – 2007.
- National Surveys, Conservation and Sustainable Use of Medicinal Plants in Arid and Semi-arid Ecosystems of Egypt. Egyptian Environmental Affairs Agency (EEAA), United Nations Development Program (UNDP), and Global Environmental Facility (GEF). From December 2004 until December 2006.
- Status of Medical Plants as a Source of Income and Job Creation for Local Community Residents in WGHPA and Related Areas. Egypt LIFE Red Sea Project. Task Order No.: 263-M-00-04-00032-00.
- Long-term Conservation of *Crataegus x sinaica*, a valuable underutilized medicinal plant grows on South Sinai Mountains. Funded by U.S.-Egypt Joint Science and Technology Fund. 2008 - 2010.
- Environmental Impact Assessment of TCI Sanmar Chemical LLC proposed structures at Port Said. April 2008.

## References

- **Dr. James L. Hamrick**, Professor of genetics  
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- **Dr. Abdel-Raouf A. Moustafa**, Professor of Plant Ecology and  
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- **Dr. Kamal H. El-Batanouny**, Emeritus Professor of Plant Ecology  
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- **Dr. Helmy Omran**, Professor of food technology,  
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