



**Prof. Arafa I. Hamed**



## **CURRICULUM VITAE**

### **Personal details:-**

**Name:** Arafa Ibrahim Hamed Ahmed

**Date of birth:** 13 March, 1962

**Nationality:** Egyptian

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**Term address:** Department of Botany, Faculty of Science at Aswan,  
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### **Fellowships:-**

- 1- **1994-1995 Ph. D.** fellowship (Channel system), School of Pharmacy, Tokyo University of Pharmacy and Life Science, **Tokyo, Japan.**
- 2- **1-28 August, 1999**, Training courses, Agricultural, Food and Environmental Chemistry, Glasgow University, **Glasgow, UK.**
- 3- **June-August, 2002**, Post-doctoral fellowship in the Biochemistry Department, Institute

of Soil Science and Plant Cultivation, **Pulawy, Poland.**

- 4- **1-20 October, 2002**, Visiting Professor in the Dipartimento di Scienze Farmaceutiche, Universita degli Studi di Salerno, **Salerno, Italy.**
- 5- **10-20 September, 2004**, Visiting Professor in the Biochemistry Department, Institute of Soil Science and Plant Cultivation, **Pulawy, Poland.**
- 6- **February-May, 2009**, Visiting Professor in the Biochemistry, Institute of Soil Science and Plant Cultivation, **Pulawy, Poland.**
- 7- **20-25 May, 2009**, Visiting Professor in the Dipartimento di Scienze Farmaceutiche, Universita degli Studi di Salerno, **Salerno, Italy.**

**National and International Symposiums:-**

- 1- Eco-development of the Deserts in Aswan Governorate. December, 1988. Faculty of Science, **Aswan, Egypt.**
- 2- Environmental Management of African Arid Lands and Man Made Lakes. February, 1990. Faculty of Science, **Aswan, Egypt.**
- 3-1<sup>st</sup> International Symposium on herbal medicine, December 7-9, **1992**, Assiut Faculty of Pharmacy, Assiut University, **Assiut, Egypt.**
- 4- 115<sup>th</sup> International Symposium on Pharmaceutical Sciences, March 29-31, **19975, Sendi, Japan.**
- 5- Regional Workshop on Environmental Economics for Sustainable Development. 14-24 April **1996. Aswan, Egypt.**
- 6- Allaqi Project Research Seminar on Environmental Research and Development in Upper Egypt, 10 April **1997. Aswan, Egypt.**
- 7- International Symposium on Plant Glycosides, August 12-15, **1997, Kunming, China.**
- 8-Workshop on Ecotechnie and the Development of Environmental Education in Arab Universities November **1997. Aswan, Egypt.**
- 9- Regional Workshop on Ecotechnie Chair Networking and Education for Sustainable Development, 29 November -2 December **1998. Aswan, Egypt.**
- 10- International Symposium on Research and Sustainable Development in Hyper Arid Lands, 18-21March **2001. Aswan, Egypt**
- 11- Symposium: Environmental Change and Desert Development, new opportunities in Southern Egypt, 16-18 December **2002. Aswan, Egypt**
- 12- 7<sup>th</sup> Conference on the Application of Chromatographic Methods in Phytochemistry & Biological Analysis, June 25-27, **1998, Lublin, Poland.**
- 13- UNESCO Regional Symposium on Chemistry of Medicinal Plants, March 17-19, **2000, Kunming, China.**
- 14- 1<sup>st</sup> International Conference of Biological Science (ICBC), Faculty of Science, 7-8 May,

**2000, Tanta University, Tanta, Egypt.**

15- 3<sup>rd</sup> International Symposium on Chromatography of Natural Products, June 12-15, **2002**, Lublin-Kazimierz Dolny, **Lublin, Poland.**

16- International Conference on Saponins, Phytochemistry & Application of Plant Saponins, September 8-10, **2004, Pulawy, Poland.**

17- 1<sup>st</sup> International Conference on Environmental Sciences, June 18-19, **2006, Ismailia, Egypt.**

18- 4<sup>th</sup> Saudi Science Conference: Contribution of Science Faculties in the Development Process of Kingdom of Saudi Arabia, March 21-24<sup>th</sup>, **2010**, Faculty of Science, **Taibah University, KSA.**

#### **Projects participation:**

1- Environmental Studies of Aswan Government, **1989-1991: The Supreme Council of Universities.**

2- Sustainable Development of Wadi Allaqi, **1987-1994: UNEP.**

3- Cultivation of Medicinal Plants in Wadi Allaqi, **1994-2000: Ministry of International Co- operation, Egypt.**

4- Environmental Valuation and Management of Plants in Wadi Allaqi (Egypt), **1996-1998:IDRC**

5- Cultivation and use of *Balaniles aegyptiaca* in Wadi Allaqi (Lake Nasser Area, Eastern Nubia) for Agro-Forestry Industry, **1996-1999: Ministry of Agriculture.**

6- Sustainable natural resource management and development in arid environments: **1998-2001: Department for International Development (DFID) The British Council.**

7- Indigenous environmental knowledge's and sustainable development in semi-arid Africa, **2001-2002: Department for International Development (DFID), The British Council.**

#### **Projects coordinators:**

1- Chemical-biological study of medicinal plants growing in south-eastern desert of Egypt. Executive Programme of Scientific and Technological Cooperation between **Italy and Egypt** for the years **2008-2010.**

#### **Participation in supervising M.SC. and Ph.D. theses:-**

1- Usama Mahalel (**2003**). Effects of environmental stress on an indigenous medicinal plant (*Pergularia tomentosa L.*). (**Ph.D.**).

2- Fatma Hamada (**2004**). Studies on the Riverain Vegetation of Some Islands at Aswan Governorate, Egypt. (**M. Sc.**).

3- Walaa Saeed (**2009**). Phytochemical studies on *Leptadenia arborea*. (**M. Sc.**).

- 4- Fatma Hamada (20XX). Ecological and Biotechnological studies on *Solanum diphyllum* and *Senna sophera*. (Ph.D.).
- 5- Moataz El-Haty (20XX). Eeee. (M. Sc.).
- 6- Hytham (20XX). Rehabilitation and propagation of *Medemia argun* palm in small oases of the Western Desert, Egypt. (M. Sc.).
- 7- Usama Fargaly (20XX). Isolation, Identification and Phytochemical screening of some Saprophytic Fungi growing at Aswan Governorate, Egypt. (M. Sc.).

#### **Academic Qualifications:**

- 1- Bachelor degree in Botany, Faculty of Science, Assiut University, Assiut, **Egypt, June 1984** with the general grade: Excellent with degree of honor.
- 2- Master degree in Botany (Microbiology-Bacteria), Faculty of Science, Assiut University, Assiut, **Egypt (1989)**.
- 3- Ph. D., in Botany (Ecology and Phytochemistry of medicinal plants), South Valley University, through a Channel System between School of Pharmacy, Tokyo University of Pharmacy and Life Science, Tokyo, **Japan** and Faculty of Science South Valley University, **Egypt (1996)**.
- 4- Associate Professor of Botany (Phytochemistry of medicinal plants), Faculty of Science South Valley University, **Egypt (2001)**.
- 5- Professor of Phytochemistry, Faculty of Science South Valley University, **Egypt (2007)**.

#### **Working experience:-**

- 1985-1990: Demonstrator** at Department of Botany, Faculty of Science at Aswan, Assiut University, Egypt.
- 1990-1996: Assistance Lecturer** at Department of Botany, Faculty of Science at Aswan, Assiut University, Egypt.
- 1996-2001: Lecturer** at Department of Botany, Faculty of Science at Aswan, South Valley University, Egypt.
- 2001- to 2007: Associate Professor** at Department of Botany, Faculty of Science at Aswan, South Valley University, Egypt.
- **2007 to date: Professor of Phytochemistry** at Department of Botany, Faculty of Science at Aswan, South Valley University, Egypt.

#### **List of publications:-**

##### **A- International Journals:-**

- 1- Sonia Piacente, Milena Masullo, Nancy De Nève, Janique Dewelle, **Arafa Hamed**, Robert Kiss & Tatjana Mijatovic (2009). Cardenolides from *Pergularia tomentosa* Display Cytotoxic Activity Resulting from Their Potent Inhibition of Na<sup>+</sup>/K<sup>+</sup>-ATPase. *Journal of Natural Products*, **72** (6), 1087-1091.
- 2- Angela Perrone, Milena Masullo, Alberto Plaza, **Arafa Hamed** & Sonia Piacente (2009).

Flavone and Flavonol Glycosides from *Astragalus eremophilus* and *Astragalus vogelii*. *Natural Products Communications*, **4** (1), 77-82.

- 3- Angela Perrone, Alberto Plaza, **Arafa Hamed**, Cosimo Pizza & Sonia Piacente (2008). *Solenostemma argel*: A Rich Source of Very Unusual Pregnane and 14,15-Secopregnane Glycosides with Antiproliferative Activity, *Current Organic Chemistry*, **12** (18), 1648-1660.
- 4- Angela Perrone, Milena Masullo, Carla Bassarello, Elena Bloise, **Arafa Hamed**, Patrizia Nigro, Cosimo Pizza and Sonia Piacente (2008). Unusual cycloartane glycosides from *Astragalus eremophilus*. *Tetrahedron*, **64** (22), 5061-5071.
- 5- Alaa-Eldin Salah-Eldin, Usama A. Mahalel & **Arafa I. Hamed** (2007). Protective role of *Trigonella hamosa* saponins against diabetic perturbations and complications in rats. *Natural Products Communications*, **2** (8), 795-882.
- 6- Angela Perrone, Milena Masulla, Carla Bassarello, **Arafa I. Hamed**, Maria Antenietta Belisario, Cosimo Pizza & Sonia Piacente (2007). Sulfated triterpene derivatives from *Fagonia arabica*. *Journal of Natural Products*, **70** (4), 584-588.
- 7- **Arafa I. Hamed** (2007). Steroidal saponins from the seeds of *Trigonella hamosa* L. *Natural Products Communications*, **2** (2), 134-146.
- 8- **Arafa I. Hamed**, Alberto Plaza, Balestrieri M. L., Mahalel U. A., Springuel I. V., Oleszek W., Pizza C. & Piacente S. (2006). Cardenolide glycosides from *Pergularia tormentosa* and their proapoptotic activity in Kaposi's sarcoma cells. *Journal of Natural Products*, **69** (9), 1319 - 1322.
- 9- Angela Perrone, Alberto Plaza, Simona Francesca Ercolino, **Arafa I. Hamed**, Luca Parente, Cosimo Pizza & Sonia Piacente (2006). 14, 15-secopregnane derivatives from the leaves of *Solenostemma argel*. *Journal of Natural Products*, **69** (1), 50-54.
- 10- Mohamed G. Sheded; Ien D. Pulford & **Arafa I. Hamed** (2006). Presence of major and trace elements in seven medicinal plants growing in the South-Eastern Desert, Egypt. *Journal of Arid Environment*, **66**, 210-217.
- 11- Angela Perrone, Alberto Plaza, Elena Bloise, Patrizia Nigro, **Arafa I. Hamed**, Maria Luisa Balestrieri, Cosimo Pizza & Sonia Piacente (2005). Cytotoxic furostanol saponins and a megastigmane glucoside from *Tribulus parvispinus*. *Journal of Natural Products*, **68** 1549-1553.
- 12- **Arafa I. Hamed**, Soina Piacente, Giuseppina Autore, Stefania Marzocco, Cosimo Pizza & Wieslaw Oleszek (2005). Antiproliferative hopane and oleanane glycosides from roots of *Glinus lotoides* L., *Planta Medica*, **71** (6), 554-560.
- 13- Alberto Plaza, Angela Perrone, Ciro Balestrieri, Maria Luisa Balestrieri, Giuseppe Bifulco, Virginia Carbone, **Arafa I. Hamed**, Cosimo Pizza & Sonia Piacente (2005). New

- antiproliferative 14,15-secopregnane glycosides from *Solenostemma argel*, *Tetrahedron*, **61**, 7470-7480.
- 14-** Alberto Plaza, Angela Perrone, Maria Luisa Balestrieri, Francesca Felice, Ciro Balestrieri, **Arafa I. Hamed**, Cosimo Pizza, Sonia Piacente (2005). New unusual pregnane glycosides with antiproliferative activity from *Solenostemma argel*. *Steroids*, **70**, 594 - 603.
- 15-** **Arafa I. Hamed**; Wieslaw Oleszek; Anna Stochmal; Cosimo Pizza & Sonia Piacente (2004). Steroidal saponins from the aerial parts of *Tribulus pentandrus* Forssk., *Phytochemistry*, **65**, 2935-2945.
- 16-** Alberto Plaza; Sonia Piacente; Angela Perrone; **Arafa Hamed**; Cosimo Pizza & Giuseppe Bifulco (2004). Stemmosides C and D, two novel unusual pregnane glycosides from *Solenostemma argel*: - Structural elucidation and configurational study by a combined NMR-Quantum Mechanical strategy, *Tetrahedron*, **60**, 12201-12209.
- 17-** **Arafa I. Hamed**; Mohamed G. Sheded; Abd El-Samei M. Shaheen; Fatma A. Hamada; Cosimo Pizza & Sonia Piacente (2004). Polyhydroxypregnane glycosides from *Oxystelma esculentum* var. *alpine*, *Phytochemistry*, **65**, 975-980.
- 18-** Alberto Plaza; Giuseppe Bifulco; **Arafa I. Hamed**; Cosimo Pizza & Sonia Piacente (2003). Argeloside A and B, two novel 14,15-secopregnane glycosides from *Solenostemma argel*, *Tetrahedron Letters*, **44**, 8553-8558.
- 19-** Springuel I.; Hussein A. H.; El-Ashri M.; Badri M. & **Hamed A. I.** (2003). Palatability of desert fodder plants, *Arid Ecosystems*, **9** (18), 30-39.
- 20-** Abou El-Hassan; M. El-Sayed; **Arafa I. Hamed**; I. K. Rhee; Ahmed A. Ahmed; Klaus-Peter Zeller & Rob Verpoorte (2003). Bioactive constituents of *Leptadenia arborea*, *Fitoterapia*, **74**, 184-187.
- 21-** **Arafa I. Hamed** (2001). New steroids from *Solenostemma argel* leaves. *Fitoterapia*, **72**, 747-755.
- 22-** Hassan H. A.; **Arafa I. Hamed**; El-Emary N. A.; Mitome H. & Miyaoka H. (2001). Pregnane derivatives from *Solenostemma argel*, *Phytochemistry*, **57**, 507-511.
- 23-** Qin G. W.; **Arafa I. Hamed**; El-Emary N. A.; Chen Y. G.; Wang L. Q.; Cheung K. K. & Cheng K. F. (2000). A new trinortriterpenoid from *Cleome chrysantha*, *Planta Medica*, **66**, 191-193.
- 24-** Badri M. & **Arafa I. Hamed** (2000). Nutrient value of some plants in an extremely arid environment (Wadi Allaqi Biosphere Reserve, Egypt). *Journal of Arid Environment*, **44**, 347-356.
- 25-** **Arafa I. Hamed** & El-Emary N. A. (1999). Triterpene saponins from *Glinus lotoides* var. *dictamnoides*, *Phytochemistry*, **50**, 477-480.
- 26-** **Arafa I. Hamed**; Springuel I. & El-Emary N. A. (1998). Benzofuran glycosides from

*Psoralea plicata*, *Phytochemistry*, **50**, 887-890.

**27- Arafa I. Hamed**; El-Emary N. A.; Springuel I.; Mitome H.; Miyaoka H. & Yamada Y (1997). Triterpenoid saponins glycosides from *Glinus lotoides* var. *dictamnoides*, *Phytochemistry*, **43** (1), 183-188.

**28- Arafa I. Hamed**; El-Emary N. A.; Springuel I.; Mitome H.; Miyaoka H. & Yamada Y (1997). Phenolic cinnamate dimer from *Psoralea plicata*, *Phytochemistry*, **45**, 1257-1261.

#### **B- National Journals:-**

**1- Arafa I. Hamed (2006)**. A new cyclobutan ring system and other constituents from the seeds of *Psoralea plicata*. *Journal of Union Arab*. **17** (B), 30-35.

**2- Mohamed G. Sheded; Arafa I. Hamed; Abd El-Samei M. Shaheen & Fatma A. Hamada (2004)**. Riverian vegetation of some islands at Aswan. *Proceeding of 3<sup>rd</sup> International Conference of Biological Science (ICBC), Faculty of Science*, Tanta University, 28-29 April, **3**, 41-62.

**3- Abd El-Samei M. Shaheen; Mohamed G. Sheded; Arafa I. Hamed & Fatma A. Hamada (2004)**. Botanical diversity in the flora of some Islands in the Egyptian Nubia, *Proceeding of First International Conference on Strategy of Egyptian Herbaria*, 161-182, March 9-11, Agriculture Museum, Dokki, Giza, Egypt.

**4- Abd El-Samei M. Shaheen & Arafa I. Hamed (2003)**. Comparative studies and nutritional values of some weedy species collected from newly reclaimed areas (Western shore of Lake Nasser, Aswan, Egypt), *Egyptian Journal of Biotechnology*, **13**, 176-186.

**5- Arafa I. Hamed (2000)**. Assessment of protein-quality of plants in an extremely arid environment, using amino acid analysis (Wadi Allaqi Biosphere Reserve, Egypt). *Proceeding of 1<sup>st</sup> International Conference of Biological Science (ICBC), Faculty of Science*, Tanta University, 7-8 May, **1** (part 2), 861-871.

**6- Shaheen A. M. & Arafa I. Hamed (2000)**. Implications of total protein content and amino acid composition on the relationships of some genera in Leguminosae and Solanaceae. *Proceeding of 1<sup>st</sup> International Conference of Biological Science (ICBC), Faculty of Science*, Tanta University, 7-8 May, **1** (part 1), 256-265.

**7- Abd El-Wahab H. M., Arafa I. Hamed & El-Emary N. A. (1998)**. Antitermite principles isolated from wild herb, *Psoralea plicata* Del., *Assiut University Bulletin for Environmental Researches*, Assiut, Egypt, **1** (2), 17-25.

**8- Arafa I. Hamed, Abd El-Wahab H. M., El-Emary N. A. & El-Eraqy S. (1998)**. The survey of III: - Order Isoptera on Aswan Botanical Island and control of *Amitermis desertorum* by crude extract and some pure compounds isolated from *Artemisia argentea* LHER, *Journal of Union of Arab Biologists*, Cairo, **10**, (A), Zoology, 333-347.

**9- Arafa I. Hamed**; El-Emary N. A.; Springuel I.; Mitome H.; Miyaoka H. & Yamada Y

(1997). New phenylpropanoid glycosides from *Glinus lotoides* var. *dictamnoides*, *Bulletin of Pharmaceutical Science*, Assiut University **20** (1), 23-26.

**10- Arafa I. Hamed;** Springuel I. & El-Emary N. A. (1992). Toxic plants of Allaqi area: 1- *Heliotropium supinum* L. *Proceeding of the first International Symposium on herbal medicine*, December 7-9, Assiut Faculty of Pharmacy, Assiut University, Egypt.

#### **C- Submitted articles:**

**1- Hamed A. I.,** Mahalel U. A., Springuel I. V., El-Sayed M. & Oleszek W. (20xx). Adaptation of *Pergularia tomentosa* to low water potentials by morphologically changes and cardiac glycosides accumulation. **Submitted.**

**2- Mahalel U. A., Hamed A. I.,** Pizza C. & Piacente S. (20xx). Nodifloriosides A-H, phenylethanoid glycosides from the creeping stems and the fruits of *Lippia nodiflora.*, **Submitted.**

#### **Books:**

**1- Wieslaw Oleszek & Arafa Hamed (2010).** *Saponin-Based Surfactants, Chapter 12 (cited in Surfactants from Renewable Resources)*. Edited by Mikael Kjellin & Ingegård Johansson, Printed by JOHN WILEY & SONS LTd Publication, Printed and bound in Great Britain by Antony Rowe Ltd., Chippenham, Wiltshire.

**2- Arafa Hamed (2005).** *Solenostemma arghel (cited in Encyclopaedia of Wild Medicinal Plants in Egypt (1), 59-81*. Edited by Batanouny K. H., Printed by The PALM Press, Cairo, Egypt.

#### **Journals reviewer**

1- *Journal of Phytochemistry Reviews*.

#### **References:-**

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Universita degli Studi di Salerno,

Salerno, Italy

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