

**C.V.****Sameh AbouZid****PERSONAL DETAILS**

Surname	AbouZid				
Other names	Sameh Fekry Salama				
Title	Dr.				
Gender	Male				
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Date of birth	Day	Mo	Yr	Place of birth	Giza, Egypt
	1	10	1974		

**EDUCATION**

School/College/University/Other	Degree obtained	Date (from-to)
The University of Tokyo, Graduate School of Pharmaceutical Sciences	Ph.D. (Pharmaceutical Chemistry)	10/2000 – 9/2003
The University of Tokyo, Graduate School of Pharmaceutical Sciences	M.Sc. (Pharmaceutical Chemistry)	9/1998 – 9/2000
Cairo University, Faculty of Pharmacy	B.Sc. (Pharmaceutical Sciences)	9/1990 – 5/1996

**EMPLOYMENT HISTORY**

Employer	Position	Date (from-to)
Institute of Medicinal and Aromatic Plants, Beni-Suef University	Supervisor	6/2016 - to present time
Faculty of Pharmacy, Beni-Suef University	Head of Pharmacognosy and Medicinal Plants Department (Acting)	10/2015 - to present time
Faculty of Pharmacy, Beni-Suef University	Vice-Dean for Education and Students' Affairs (Acting)	10/2012 - 10/2014
Faculty of Pharmacy, Beni-Suef University	Vice-Dean for Postgraduate Studies and Research (Acting)	9/2011 - to 9/2012
Faculty of Pharmacy, Beni-Suef University	Assistant Professor	12/2010 – to present time
Faculty of Pharmacy, Nahda University in Beni-Suef	Lecturer	2/2009 – to present time
Faculty of Pharmacy, Beni-Suef University	Quality Assurance Unit - Executive manager	4/2008 - 9/2011
Faculty of Pharmacy,	Lecturer	02/2005 –

Beni-Suef University	12/2010
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### MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Professional body	Level of membership	Year of award
Pharmaceutical Society of Japan	Former member	2000
Japanese Society of Plant Cell and Molecular Biology	Former member	2003
Egyptian Botanical Society	Member	2004
Egyptian British Biological Society	Member	2004
The Egyptian Society of Environmental Toxicology	Member	2005
The Egyptian Pharmaceutical Society	Member	2005
Natural Product Research Network for Eastern and Central Africa (NAPRECA)	Member	2013
American Chemical Society (ACS)	Member	2014
Research Network Natural Products against Neglected Diseases	Member	2014
Society for Medicinal Plant and Natural Product Research	Member	2016

### TRAINING

Training attended / Technical skills acquired	Place	Date (from-to)
Ethical Conduct and Code of Ethics	Center of Human Resources Development, Beni-Suef University	24/4/2016-
University Management	Center of Human Resources Development, Beni-Suef University	5/4/2016-6/4/2016
University Legal and Financial Aspects	Center of Human Resources Development, Beni-Suef University	13/3/2016-14/3/2016
Research Ethics	Center of Human Resources Development, Beni-Suef University	17/4/2016-18/4/2016
Technology in Teaching	Center of Human Resources Development, Beni-Suef University	10/4/2016-11/4/2016
The Credit Hour System	Center of Human Resources Development, Beni-Suef University	26/3/2016-27/3/2016
Guidelines for Researchers	Bibliotheca Alexandrina, Alexandria, Egypt	27/9/2010 – 30/9/2010
TOT	Faculty and Leadership Development Project (FLDP), Beni-Sueif University	30/4/2007 – 3/5/2007

Introduction to SCORM	The American University in Cairo (AUC) – Engineering Services	2006 Summer School
How to Write a Successful Research Proposal, workshop	Bibliotheca Alexandrina, Alexandria, Egypt	8-10 December, 2005
Scientific Writing Skills course	Egyptian National Agricultural Library	13/3/2004 – 22/3/2004
E-learning Content Development	The American University in Cairo (AUC) – Engineering Services	November-December, 2005
Isolation and Identification of Plant Polyphenols	National Research Centre, Cairo, Egypt	15/5/2004 – 29/5/2004
Scientific Writing Skills course	Egyptian National Agricultural Library	13/3/2004 – 22/3/2004
Mushroom Production and Marketing training course	Food and Technology Research Institute, Agricultural Research Centre, Egypt	5/2004
University Teacher Preparatory course	Cairo University	14/2/2004 – 3/3/2004

#### **JOURNAL PUBLICATIONS** (*Indexed Journals*)

1. Polyacetylenes accumulation in *Ambrosia maritima* hairy root and cell cultures after elicitation with methyl jasmonate. Sameh AbouZid and Yutaka Orihara. *Plant Cell, Tissue and Organ Culture* **2005**, 81: 65-75.
2. Molluscicidal Activity of Polyacetylenes from *Ambrosia maritima* hairy roots. Sameh AbouZid, Yutaka Orihara and Masanori Kawanaka. *Natural Product Communications* **2007**, 2 (2): 177-180.
3. Biosynthesis of polyacetylenes in *Ambrosia maritima* hairy root culture. Sameh AbouZid and Yutaka Orihara. *Planta medica* **2007**, 12 (73): 1327-1329.
4. Steroidal Glycoalkaloids from Berries of *Solanum distichum*. Sameh AbouZid, Nermeen Fawzy, Nebal Darwish and Yutaka Orihara. *Natural Product Research* **2008**, 22 (2): 147-153.
5. Antioxidant Activity of Wild Plants Collected in Beni-Sueif Governorate, Upper Egypt. Sameh AbouZid, Abdelaaty Elshahaat, Sajjad Ali, Mohamed I. Choudhary. *Drug Discoveries & Therapeutics*, **2008**, 2(5): 286-288.
6. A New Ferulic Acid Ester and Other Constituents from *Tamarix nilotica* Leaves. Sameh AbouZid, Sajjad Ali, Mohamed Iqbal Choudhary. *Chemical & Pharmaceutical Bulletin*, **2009**, 57(7): 740-742.
7. Withaferin A Production by Root Cultures of *Withania coagulans*. Sameh AbouZid, Asma Nasib, Seif Khan, Javed Qureshi, Mohamed Iqbal Choudhary. *International Journal of Applied Research in Natural Products*, **2010**, 2(5): 23-27.
8. A New Prenylated Flavanoid with Antibacterial Activity from Propolis Collected in Egypt. Ashraf El-Bassuony, Sameh AbouZid. *Natural Product Communications*, **2010**, 5(1): 43-45.

9. RP-HPLC method for determination of withanolides in flowers, leaves and roots of *Withania somnifera*. N. W. Ali, S. AbouZid, A. Nasib, S. Khan, J. Qureshi, M. I. Choudhary. *Acta Chromatographica*, **2010**, 22(3): 473-480.
10. Evaluation of usefulness of wild plants growing in Beni-Sueif region, Upper Egypt. Sameh AbouZid. *Functional Plant Science and Biotechnology*, **2010**, 5(S11): 91-93.
11. Chemical and biological investigation of some *Clerodendrum* species cultivated in Egypt. Haytham M. Wahba, Sameh F. AbouZid, Amany A. Sleem, Sandra Apers, Luc Pieters, Abdelaaty A. Shahat. *Pharmaceutical Biology*, **2011**, 49(01): 66-72.
12. Hepatoprotective and Antioxidant Activities of *Tamarix nilotica* Flowers. Sameh F. AbouZid, Amany A. Sleem. *Pharmaceutical Biology*, **2011**, 49(04): 392-395.
13. Survey on medicinal plants and spices used in Beni-Sueif, Upper Egypt. Sameh F. AbouZid and Abdhalim Mohammed. *Journal of Ethnobiology and Ethnomedicine*, **2011**, 7: 18-23.
14. Studies on flavanolignans from cultured cells of *Silybum marianum*. Ahlam Elwekeel, Sameh AbouZid, Nadia Sokkar, and Ahlam Elfishway. *Acta Physiologiae Plantarum*, **2012**, 34: 1445-1449.
15. Enhanced accumulation of flavonolignans in *Silybum marianum* cultured roots by methyl jasmonate. Ahlam Elwekeel, Ahlam Elfishway, and Sameh AbouZid. *Phytochemistry Letters* **2012**, 5: 393-396.
16. Antimicrobial activity of some *Clerodendrum* species from Egypt. Sameh F. AbouZid, Haytham M. Wahba, Ali Elshamy, Paul Cos, Louis Maes, Sandra Apers, Luc Pieters and Abdelaaty A. Shahat. *Natural Product Research* **2012**, 27(11): 1032-1036.
17. Increase in Lipoxygenase Activity in Hairy Roots of *Ambrosia maritima* after Elicitation with Methyl Jasmonate. Sameh AbouZid, Yutaka Orihara. *Plant Tissue Culture & Biotechnology Journal* **2013**, 23(1): 31-38.
18. Antihyperglycemic Effect of Crude Extracts of Some Egyptian Plants and Algae. Sameh Fekry AbouZid, Osama Mohamed Ahmed, Rasha Rashad Ahmed, Ayman Mahmoud, Ehab Abdella, Mohamed Badr Ashour. *Journal of Medicinal Food* **2014**, March, 17(3): 400-406. doi:10.1089/jmf.2013.0068.
19. Authentication of *Silybum marianum* Varieties Using RAPD Analysis. Sameh AbouZid. *Plant Tissue Culture & Biotechnology* **2014**, June, 24(1): 57-63.
20. Yield improvement strategies for production of secondary metabolite in plant tissue culture. Sameh AbouZid. *Natural Product Research* **2014**, 28(23), 2102-2110. DOI: 10.1080/14786419.2014.927465.
21. Phytochemical screening and evaluation of biological activity of *Calligonum polygonoides* L. subsp. *comosum*. Ahmed HS, Moawad AS, Owis AI, AbouZid SF, Abdel-Rahman RF. *Journal of Applied Pharmaceutical Science* **2015**, 5(3), 22-26.

22. An Active Learning Assignment to Improve Pharmacy Student's Knowledge of Herbal Medicine. Sameh AbouZid, Journal of Applied Pharmaceutical Sciences **2015**, 5(3), 106-108.
23. Use of Nuclear Magnetic Resonance Spectroscopy in Analysis of Fennel Essential Oil. Sameh AbouZid. Natural Product Sciences **2016**, 22(1), 30-34.
24. Solamargine production by a fungal endophyte of *Solanum nigrum*. El Hawary, Seham; Mohamed, Rabab; AbouZid, Sameh; Bakeer, Walid; Ebel, Rainer; Sayed, Ahmed; Rateb, Mostafa. Journal of Applied Microbiology **2016**, 120, 900-911.
25. Silymarin content in *Silybum marianum* populations growing in Egypt. Sameh F. AbouZid, Shao-Nong Chen, Guido F. Pauli. Industrial Crops and Products **2016**, 83, 729-737.
26. Flavonoids of *Calligonum polygonoides* and their cytotoxicity. Hayam S. Ahmed, Abeer S. Moawad, Asmaa I. Owis, Sameh F. AbouZid, Osama M. Ahmed. **2016**, Pharmaceutical Biology, in press.
27. *Silybum marianum* pericarp yields enhanced silymarin product. Sameh F. AbouZid, Shao-Nong Chen, James McAlpine, Brent Friesen, Guido F. Pauli. **2016**, Fitoterapia, 112, 136-143.
28. Silymarin and hydroethanolic extracts of *Silybum marianum* leaves and fruits potentially counteract diethylnitrosamine/phenobarbital-induced hepatocarcinogenesis. Osama M. Ahmed, Ayman M. Mahmoud, Sameh F. AbouZid, Nour Y. Saber. **2016**, under review.
29. Anti-arthritic activity of 11-O-(4'-O-methyl galloyl)-bergenin and *Crassula capitella* extract against rheumatoid arthritis in rats. Seham S. El-Hawary, Rabab Mohammed, Sameh Abou zid, Zeinab Y. Ali and Ahlam Elwekeel. Journal of Pharmacy and Pharmacology, **2016**, 68, 834-844.
30. . In-vitro Cyclooxygenase Inhibitory, Antioxidant and Antimicrobial Activities of Phytochemicals Isolated from *Crassula arborescens* (Mill.)Willd. Seham S. El-Hawary, Rabab Mohammed, Sameh AbouZid, Zeinab Y. Ali, Ahmed O. El-Gendy, Ahlam Elwekeel International Journal of Applied Research in Natural Products, **2016**, 9 (4), 8-14.
31. Secondary metabolites from fungal endophytes of *Solanum nigrum*. Mohamed, Rabab; El Hawary, Seham; Bakeer, Walid; Rateb, Mostafa; AbouZid, Sameh; Sayed, Ahmed. Submitted.
32. Biosynthesis of flavonolignans produced by *Silybum marianum*. Sameh F. AbouZid, Shao-Nong Chen, James McAlpine, Brent Friesen, Guido F. Pauli. In preparation.

#### **JOURNAL PUBLICATIONS (Others)**

33. Increase in flavonoid content in red onion peel by mechanical shredding. Sameh AbouZid and Gamal Elsherbeiny. *Journal of Medicinal Plants Research*, **2008**, 2(9): 258-260.
34. Pharmacognostical study on *Erythrina crista-galli* grown in Egypt. Mohamd AbouElfetouh, Rabie Elsofany, Sameh AbouZid, Marwa Hassan. *Bulletin of Faculty of Pharmacy, Cairo University*, **2008**, 46 (3): 127-138.
35. Study of Flavonoid content of *Cicer arietinum* L. O. A. Rashwan, M. Magd, S. AbouZid\* and M. A. Zaki. *Bull. Fac. Pharm. Cairo Univ.*, **2009**, 47(3): 121-127.
36. Phytochemical and biological studies on isoflavonoids from *Dalbergia paniculata* cultivated in Egypt. Enas Amin, Sameh AbouZid, Ahmed Seida. *Pharmacologia*, **2012**, 3: 84-90.
37. Lipid content and antimicrobial activity of some Egyptian Fabaceae (Leguminosae) plants. Usama W. Hawas, Sayed A. Eltomy, Sameh F. Abozaed, Ghanem A. El-Hossary and Rafik M. Nassif. *Journal of Medicinal Plant Research* **2012**, 6(44): 5604-5608.
38. Antibacterial Effects of Isoflavones Isolated from *Cicer arietinum*. Mohamed Zaki , Ali Zaid , Mostafa Magd and Sameh AbouZid. *International Journal of Natural Products Research* **2013**, 2(1): 1-5.
39. Bioinformatics Assessment of Functional Genes/Proteins Involved in Obesity-Induced Type 2 Diabetes. Ehab M Abdella, Rasha R Ahmed, Mohamed B Ashour, Osama M Ahmed, Sameh F AbouZid and Aymen M Mahmoud. *International Journal of Fundamental & Applied Sciences* **2013**, 2(1): 23-28.
40. Silymarin content in *Silybum marianum* fruits at different maturity stages. Ahlam Elwekeel, Ahlam Elfishawy and Sameh AbouZid. *Journal of Medicinal Plants Research* **2013**, 7(23): 1665-1669.
41. Studies on garlic production in Egypt using conventional and organic agricultural conditions. Mai Raslan, Sameh AbouZid, Mamdouh Abdallah, Mohamed Hifnawy. *African Journal of Agricultural Research* **2015**, 10(13), 1631-1635.
42. Composition of the Essential Oil of the Fruits of *Phyllanthus emblica* Cultivated in Egypt. Dalia El Amir, Sameh F. AbouZid, Mona H. Hetta, Abdelaaty A. Shahat, Mohamed A. El-Shanawany. *Journal of Pharmaceutical, Chemical and Biological Sciences* **2015**, 2(3): 202-207.
43. Cytotoxicity of *Solanum nigrum* L green fruits on breast (MCF-7) and liver (HepG-2) cancer cell lines. Seham S. El-Hawary, Rabab Mohammed, Sameh F. AbouZid, Mostafa E. Rateb and Ahmed M. Sayed. *The Pharma Innovation Journal* **2015**, 3(11), 87-89.
44. Phenolic contents and in vitro free radical scavenging activity of alcoholic extract of the fruits of *Tribulus terrestris* L. M. Hifnawy, S. AbouZid, Z. Ali, M. Fouda. *The Pharma Innovation Journal* **2015**, 4(6), 92-100.
45. Silymarin and hydroethanolic extracts of *Silybum marianum* leaves and fruits attenuate diehtylnitrosamine/phenobarbital-induced nephrotoxicity via their

antioxidant and anti-inflammatory action. Osama Ahmed, Ayman Mahmoud, Sameh AbouZid, Nour Saber. American Journal of Biochemistry **2016**, 6(2), 21-29.

**46.** Chemical composition and antimicrobial activity of the lipid extract from the *Fraxinus ornus* (L.) seeds, family oleaceae. Seham S. Elhawary, Rabab Mohammed, Sameh Fekry AbouZid, Hossam M. Hassan and Marwa A. Taher. World journal of pharmacy and pharmaceutical sciences **2016**, 5(5), 155-162.

**47.** Ameliorative effects of *Punica granatum* juice and fruit extracts against 7,12-dimethylbenz[ $\alpha$ ]anthracene and CCl<sub>4</sub>-induced cardiorenal toxicity in Albino rats. Mohamed B. Ashour, Hanaa I Fahim, Sameh F. AbouZid, Ahmed R. Gaber, Hamed A. AbdelGaid, Osama M. Ahmed. SM Journal of Biology **2016**, 2(1), in press.

**48.** *Punica granatum* mitigates 7,12-dimethylbenz[ $\alpha$ ]anthracene and CCl<sub>4</sub>-induced oxidative stress and hepatic precancerous lesions in wistar rats. Ahmed, O.M., Ashour, M.B., Fahim, H.I., AbouZid, S.F., Gaber, A.R. and Gaid, M.A.A. Indo American Journal of Pharmaceutical Research **2016**, 6(9), 6493-6510.

#### **BOOK CHAPTERS**

➤ Silymarin, Natural Flavonolignans from Milk Thistle. Sameh AbouZid. In "Phytochemicals – A Global Perspective of Their Role in Nutrition and Health", ISBN 978-953-51-0296-0, edited by Venketeshwer Rao, InTech - open science | open minds, Email: info@intechopen.com, Website: <http://www.intechopen.com/> Phone: +385 51 686 165, Fax: +385 51 686 166, Janeza Trdine 9, 51000 Rijeka, Croatia, **2012**, pp. 255-272.

➤ Silymarin Flavonolignans: Structure-Activity Relationship and Biosynthesis. Sameh AbouZid, Osama M. Ahmed. In "Studies in Natural Products Chemistry", vol. 40, edited by Atta-ur-Rahman, **2013**, volume 40, pp. 469-484.

#### **BOOKLET**

➤ "Beni-Suef Wild Plants of Medicinal Importance". Edited by: Sameh AbouZid. Distributed by: The Anglo-Egyptian Bookshop, Deposit number 21278, I.S.B.N. 978-977-05-2864-8, **2014**.

#### **SCIENTIFIC MEETINGS, Conferences & Workshops**

**1.** Phytochemical Studies on *Ambrosia maritima* Hairy Root Culture. Sameh AbouZid and Yutaka Orihara. Annual meeting of the Pharmaceutical Society of Japan. Nippon Yakugakkai Nenkai Koen Yoshishu **2002**, 122:151 (poster).

**2.** Biosynthetic Studies on *Ambrosia maritima* Hairy Root Culture. Sameh AbouZid and Yutaka Orihara. Annual meeting of the Pharmaceutical Society of Japan. Nippon Yakugakkai Nenkai Koen Yoshishu **2003**, 123:148 (poster).

**3.** Biosynthesis of Polyacetylenes in hairy roots of *Ambrosia maritima*. Sameh AbouZid and Yutaka Orihara. Annual meeting of the Japanese Society of Plant Cell and Molecular Biology. **2003** (oral).

4. Studies on polyacetylenes biosynthesis in *Ambrosia maritima* hairy roots. The 2<sup>nd</sup> international conference of the Pharmaceutical and Drug Industries Division. National Research Centre, Egypt **2005** (oral).
5. Phytochemical Studies on Plants Growing in Beni-Sueif Governorate, Egypt. Sumer Ezeldin, Inas Ibrahim, Haytham Wahba, Marwa Hassan, Mohammed Zaki and Sameh AbouZid. The 30<sup>th</sup> International Conference of Pharmaceutical Science. The Egyptian Pharmaceutical Society, p. 43 – Egypt **2006** (poster).
6. Molluscicidal activity of polyacetylenes isolated from transformed roots of *Ambrosia maritima*. The 2<sup>nd</sup> Annual Scientific Conference of the Egyptian Society of Environmental Toxicology, Egypt **2006** (oral).
7. Elicitation of flavonoids in red onion (*Allium cepa*) by mechanical stress. Sameh AbouZid and Ahmed Atiah. The 3<sup>rd</sup> International Conference of Pharmaceutical and Drug Industries Division, National Research Centre, Egypt **2007** (oral).
8. Steroidal glycoalkaloids from the berries of *Solanum distichum*. Sameh AbouZid, Nermeen Fawzy, Nebal Darwish, Yutaka Orihara. The 3<sup>rd</sup> Annual Scientific Conference of the Egyptian Society of Environmental Toxicology, Egypt **2007** (oral).
9. Withaferin A Production by Root Cultures of *Withania coagulans*. Sameh AbouZid, Asma Nasib, Seif Khan, Javed Qureshi, Mohamed Iqbal Choudhary. Abstract Book of The Fourth International Conference of Pharmaceutical and Drug Industries Division, National Research Centre, Egypt **2009** (poster).
10. Antioxidant and antiviral activities of plants growing in Beni-Sueif governorate, Egypt. Sameh AbouZid and Yutaka Orihara. Abstract Book of The First EuroMed Symposium “Plant Natural Products from Biodiversity to Bioindustry” , National Research Centre, Egypt **2009** (poster).
11. The 238<sup>th</sup> American Chemical Society (ACS) National Meeting and Exposition, Agricultural and Food Chemistry Division Symposium entitled: “Bioactives: New Production Technologies” August 16-20, **2009**; Washington, DC, US (Oral).
12. *In Vitro* Production of Flavolignans from *Silybum marianum*. El-fishway AM, Sokkar N, AbouZid S, El-wekeel AH. Assiut University Seventh International Pharmaceutical Science Conference, Assiut, Egypt; March 17 & 18, **2010** (poster).
13. Phytochemical studies on isoflavonoids isolated from the bark and leaves of *Dalbergia paniculata*. Ahmed Attia Seida, Sameh AbouZid and Enas Ebrahim. Assiut University Seventh International Pharmaceutical Science Conference, Assiut, Egypt; March 17 & 18, **2010** (poster).
14. Medicinal Plants and Their Therapeutic Effects. Symposium, Faculty of Pharmacy – Beni-Suef University 7-8<sup>th</sup> April **2010** (Organizer).
15. Recent Advances in Pharmaceutical Research. Symposium, Faculty of Pharmacy - Beni-Suef University 12<sup>th</sup> January **2011** (Listener).
16. Research-Industry Day, from Lab to Reality. Bibliotheca Alexandrina, Alexandria, Egypt; July 28 **2011** (Listener).
17. International Symposium on Natural Product Chemistry, September 22-35, **2012**; Karachi, Pakistan (Oral).



18. Plant Biotechnology Classical & New trends Symposium, 5 December **2013**, National Research Centre, Cairo, Egypt (Listener).
19. The 15th symposium of the Natural Products Chemistry Research Network for Eastern and Central Africa (NAPRECA), Khartoum - Sudan, 7-10 December **2013** (Poster).
20. International symposium on "Recent advances in Chemistry and Biology of Natural Product", Beni-Suef, Egypt, 3-4 August **2014** (Event Coordinator).
21. Symposium titled "Biotechnology for the Emerging Economies:", Beni-Suef, Egypt, 7 April **2015** (Speaker).
22. Workshop titled "Modern Approach in Publishing Ethics", March 29, **2016**, Academy of Scientific Research and Technology, Egypt.
23. Workshop titled "Improving Journal Peer Review", May 9, **2016**, Academy of Scientific Research and Technology, Egypt.
24. Workshop titled "Criteria of Selection of Journals for Web of Science Indexing:", October 13, **2016**, Academy of Scientific Research and Technology, Egypt.

#### **INVITED LECTURES**

- Hairy roots technique and secondary metabolites. Training course on secondary pharmaceutical metabolites, Agricultural Research Centre, Egypt, July 2009.
- American Chemical Society (ACS) Agricultural and Food Chemistry Division, symposium entitled: "Bioactives: New Production Technologies" The 238<sup>th</sup> ACS National Meeting and Exposition, August 16-20, 2009; Washington, DC, US.
- In vitro production of flavonolignans from *Silybum marianum*. 13<sup>th</sup> International Symposium on Natural Product Chemistry, September 22-35, 2012; Karachi, Pakistan.
- American Chemical Society (ACS) Agricultural and Food Chemistry Division, Use of Nuclear Magnetic Resonance Spectroscopy in Quality Control of Fennel Essential Oil. ACS AGFD - ACS ICST Symposium, March 4-5, 2014, Thailand.
- Yield Improvement Strategies for Production of Secondary Metabolites in Plant Tissue Culture. Second International Course for Plant Tissue Culture Applications, May 18-22, 2014, Agriculture Research Center, Egypt.