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to

## Professor Dr. Osama Bashir Abdel Halim

### PERSONAL INFORMATION

Date of birth	May10th., 1954
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Current address	Dept. Of Pharmacognosy and Pharm. Chemistry, College of Pharmacy, Taibah University, Almadinah Almonawwarah 30001,K.S.A.
Permenant adress	Dept. Of Pharmacognosy, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

### WORK HISTORY

Oct. 1977-Feb 1986	<i>Teaching assistantship:</i> Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
March 1986-Jun. 1992	<u>Assistant lecturer:</u> Faculty of Pharmacy, Mansoura University, Egypt.
Nov. 1989-April 1992	<u>Research fellowship:</u> in Faculty of Pharmaceutical sciences, Chiba University, Japan.
July 1992-March 1998	<u>Assistant Prof.:</u> Faculty of Pharmacy, Mansoura University, Egypt.
April 1998-May 2003	<u>Associate professor:</u> Faculty of Pharmacy, Mansoura University, Egypt.
Jun 2003-Sept. 2007	<u>Professor:</u> Faculty of Pharmacy, Mansoura University, Egypt.
July 2002-Jan 2005	<u>Postdoctor research fellow &amp; JSPS felloship:</u> in Kyoto

	<b>Pharmaceutical University, Kyoto, Japan.</b>
<b>Oct 2007-Now</b>	<b><u>Professor:</u> College of Pharmacy, Taibah University, Almadinah Almonawwarah, King Saudi Arabia.</b>

## EDUCATION

May, 1977	<b>B. Sc.</b> in Pharmaceutical Sciences: Excellent with grade of honor, Faculty of Pharmacy, Mansoura University, Egypt.
March, 1986	<b>M.S.</b> in Pharmaceutical Sciences (Pharmacognosy): (Pharmacognostical study of certain plants of Tecoma species) Faculty of Pharmacy, Mansoura University, Egypt.
July, 1992	<b>Ph. D.</b> in Pharmaceutical Sciences (Pharmacognosy): (Phytochemical study of certain plants belonging to Family Leguminosae) Cooperation with Faculty of Pharmaceutical Sciences, Chiba University, Chiba, Japan

## MEMBERSHIPS OF SCIENTIFIC COMMITTEES

Syndicate of Pharmacy- Egypt

The Pharmaceutical Society of Egypt.

The Japanese Society of Pharmaceutical Sciences.

Egyptian Association for Alternative and Herbal Medicine

Saudi Society of Biotechnology.

## CONFRENCES AND SCIENTIFIC MEETINGS

- 1- Annual meeting of Japanese Pharmaceutical Soc. Fukoka, Japan, 1992
- 2- 23<sup>rd</sup>. Conference of Pharmaceutical Sciences, Cairo, 1993
- 3- 24<sup>th</sup>. Conference of Pharmaceutical Sciences, Cairo, 1994
- 4- The 1st. Scientific Symposium of the faculties of Pharmacy Organization in the Arab world, Irbid, Jordan, 1997.
- 5- 26<sup>th</sup>. Conference of Pharmaceutical Sciences, Cairo, 1998.
- 6- The 3rd. Scientific Symposium of the faculties of Pharmacy Organization in the Arab world, Tanta, Egypt, 1999.
- 7- Assuit Univ. 2<sup>nd</sup>. Pharmaceutical Sciences Conference, Assuit,

- Egypt, 2000.
- 8- 41st. Annual meeting of American Society of Pharmacognosy, Seattle, USA, 2000.
  - 9- Assuit Univ. 3<sup>rd</sup>. Pharmaceutical Sciences Conference, Assuit, Egypt, 2002.
  - 10- 7th. International Conference on Chemistry and its role in Development, Mansoura, Sharm Elsheik, 2003.
  - 11- Assuit Univ. 4<sup>th</sup>. Pharmaceutical Sciences Conference, Assuit, Egypt, 2004.
  - 12- The 51st. Annual Meeting of the Japanese Society of Pharmacognosy in Kobe, 2004
  - 13- Assuit Univ. 5<sup>th</sup>. Pharmaceutical sciences Conference, Assuit, Egypt, 2006.
  - 14- 11<sup>th</sup>. Scientific Symposium of the faculties of Pharmacy Organization in the Arab world, Tripoli, Libya, 2007
  - 15- Contribution of Science Faculties in the Development process of KSA, . Fourth Saudi Science Conference, 2010
  - 16- Symposium on Developing Performance of Health Practitioner: Mini Symposium in Therapy Updates, General Directorate of Health Affairs in Health Affairs in Madinah region, 2010.
  - 17- Smposium on Developing Performance of Health Practitioner: Mini Symposium in Current Issues in Therapeutics, General Directorate of Health Affairs in Health Affairs in Madinah region, 2010.
  - 18- Medical Malpractice Conference, Medical & Legislative Perspectives, Taibah Univ., Jan, 2011
  - 19- New concept in Rehabilitation for disabled, Almadinah Almonawwarah, KSA, 29-30-5/2011
  - 20- 3<sup>rd</sup>. Symposium updates in medical rehabilitation, field Almadinah Almonawwarah, KSA, 31/5-1/6/2011
  - 21- Drugs and Cardiology, College of Pharmacy, Taibah University, Almadinah Almonawwarah, KSA, 5-06-2013.
  - 22- The first international Symposium on “Updates on Genetics & Inherited diseases” Almadinah Almonawwarah, KSA, 10-11/4/2012.
  - 23- Scientific meeting in world Diabetis day 2012 campaign, Almadinah Almonawwarah, KSA, 14-11-2012, 24-12-1433.
  - 24- Scientific meeting in world TB day 2012 campaign, Almadinah Almonawwarah, KSA, 24/3/2013.
  - 25- Drugs and Kidneys Coolege of Pharmacy, Taibah University, Almadinah Almonawwarah, KSA, 5-02-2013.
  - 26- Recent trends in Pharmaceutical Sciences, Taibah University, Almadinah

Almonawwarah, KSA, 13&14-04-2013.

27- Complementary, alternative and integrative medicine, Arab Health, 26-29-01-2014, Dubai.

### ***Participation in workshops***

- 1- HPLC, Pharmax Consulting Group, Cairo, 1997.
- 2- Principles of Genetic Engineering, Alexandria, 1996.
- 3- Law competencies in the University, 2005
- 4- Teaching evaluation, Electronic education, People management, Mansoura University, 2005.
- 5- Awareness day workshop on applied blended learning for academic staff, Taibah Univ. Almadinah Almonawwarah, Saudi Arabia, 14-1-1429.
- 6- Biotechnology, Strategic Vision, Saudi society biotechnology, Almadinah Almonawwarah, Saudi Arabia, 9-5-1429.
- 7- An Update of Swine Influenza (HINI) Workshop, College of Medicine, Taibah University, 2009
- 8- Cardiopulmonary Resuscitation, Saudi heart Association, 2009
- 9- Workshop for Assistant Pharmacists Training course, King Fahd hospital, 2010.
- 10- Gusor system for electronic distance learning, Taibah University, 2010
- 11- Training workshop for controlling Tuberculosis, Ministry of health, 2010.
- 12- 1<sup>st</sup>. Taibah University Clinical Toxicology Workshop, 2010.
- 13- "Role of Poison control center in improving healthcare performance", Almadinah Almonawwarah, KSA, 2/2011
- 14- The skills of search and retrieval of research databases Taibah University, 23-2-2014
- 15- SSPS Taibah University, 19-2-2014

## **PUBLICATIONS**

- 1- **Osama Bashir Abdel-Halim** "Yemensinine, a novel cytotoxic alkaloid from *Crinum yemense*" Submitted to *Phytochemistry*, 2015.
- 2- **Amal A. Galalaa, Amal Sallama, Osama B. Abdel-Halim and Sahar R. Gedaraa** "New *ent*-Kaurane Dimer from *Pulicaria inuloides*" Submitted to *Natural Product Research*, 2015
- 3- **Amani M. Marzouk and Osama B. Abdel-Halim**, "A new lanostane-type triterpene and sesquiterpene lactones from *Vernonia leopoldii* and their in vitro cytotoxicity", *Natural Product Research*, 2015 To link to this article: <http://dx.doi.org/10.1080/14786419.2015.1062004>

- 4- Hisashi Matsuda, Souichi Nakashima, Osama Bashir Abdel-Halim, Toshio Morikawa, and Masayuki Yoshikawa\* "Cucurbitane-type Triterpenes with Anti-proliferative Effects on U937 cells from an Egyptian Natural Medicine, *Bryonia cretica*: Structures of New Triterpene Glycosides, Bryoniosides A and B" *Chem. Pharm. Bull.*, 58(5),747-751, 2010
- 5- Sahar R. Gedara, Osama B. Abdel Halim, and Atallah F. Ahmed "Dunensin, A new 8-Prenylflavonoid from *Tephrosia purpurea subsp. dunensis*" *Mans., J. Pharn. Sci.* 25(1), 94-102, 2009.
- 6- Osama B. Abdel Halim, Amany Marzouq, R. Mothana and N. Awadh "A new tyrosinase inhibitor from *Crinum yemense* as potential treatment for hyperpigmentation" *Pharmazie*, 63(5), 405-408, 2008.
- 7- Osama B. Abdel Halim, Sayed M. Marwan, Ali, A. El Gamal and Mona zaghoul "Socotroside a new pentacyclic cucurbitane glycoside from *Dendrosicyos socotrana*", *Z. Naturforsch*, 63b, 1415-1420, 2008.
- 8- Osama B. Abdel Halim; Galal, T. Matuuq and Amany Marzouq "Mtabolism of Parthenin by *Beouvaria Bassiana ATCC 7159*" *Pharmazie*, 62, 226-230, 2007.
- 9- Toshio Morikawa, Osama B. Abdel Halim, Hisashi Matsuda, Shin Ando, Osamu Muraoka and Masayuki Yoshikawa "New sesquiterpene lactones with inhibitory effect on inducible nitric oxide synthase from *Dichrocephala integrifolia*" *Tetrahedron* 62 6435-6442, 2006
- 10- Osama B. Abdel Halim Toshio Morikawa, Shin Ando, Hisashi Matsuda and Masayuki Yoshikawa "New crinine-type alkaloids with inhibitory effect on inducible nitric oxide synthase from *Crinum yemense*" *J. of Nat. prod.*, 67, (7), 1119-1124, 2004.
- 11- Hosny Abdel Fattah, Osama B. Abdel Halim Sayed M. Marwan, Ali, A. El Gamal, and Ramzi Elmothana "Dendrocin, A new cucurbitacin with cyclized side chain from *Dendrosicyos socotrana*" *Phytochemistry*, 65, 2551-2556, 2004
- 12- Seif-Eldin N. Ayyad, Osama B. Abdel Halim Thomas W. Shier and Thomas R. Hoyal Ahmed F. Halim "Cytotoxic Hydroazulenoid diterpenes from the brown alga *Cystosira myrica*" *Z. Naturforsch* 58C, 33-38, 2003.
- 13- Sahar R. Gedara, Osama B. Abdel Halim, Saleh H, Al Sharkawy, Osama M. Salama, Thomas W. Shier and Ahmed F. Halim "Cytotoxic Hydroazulenoid diterpenes from the brown alga *Dictyota dichotoma*" *Z. Naturforsch* 58C, 17-22, 2003.
- 14- Sahar R. Gedara, Osama B. Abdel Halim, Saleh H, Al Sharkawy, Osama M. Salama, Thomas W. Shier and Ahmed F. Halim "New erythropane type diterpenoids from *Fagonia boveana* (Hadidi) Hadidi & Garf" *Z. Naturforsch* 58C, 23-32, 2003.
- 15- Osama B. Abdel Halim, Zidan Z. Ibrahim and Kenji Shiojima "Oleane triterpenes from *Adiantum capillus-veneris* growing in Egypt" *Alex. J. of Pharm. Sci.*, 16, 87-92, 2002.

- 16- **Osama B. Abdel Halim** "Certain non-alkaloidal constituents from *Lygos raetam* var. *bovei*." *Mans., J. Pharn. Sci.* 18, 15-20, 2002.
- 17- **Osama B. Abdel Halim** "Further contribution to the chemistry of *Lupinus varius*." *Mans., J. Pharn. Sci.* 18, 21-27, 2002.
- 18- **Osama B. Abdel Halim**, Hosny, A. Abdel Fattah, Fathi T. Halaweish and Ahmed F. Halim "Isoflavones and alkaloids from *Spartidium sahara*" *Nat. Prod. Sciences*, 6, 189-192, 2001.
- 19- Khalid A. Elsayed , Samir A. Ross, Mahmoud A. El-Sohly, Magdy M. Khalafalla, **Osama B. Abdel Halim** and Fumio Ikegami "Effects of different fertilizers on the amino acid, fatty acid and essential oil composition of *Nigella sativa* seeds" *Saudi Pharmaceutical J.*, 8, 175-182, 2000.
- 20- Ali, A. El Gamal, **Osama B. Abdel Halim** and Koichi Takeya "Chemical constituents of *Meriophyllum spicatum*" 41st. Annual meeting of American Society of Pharmacognosy, Seattle, USA, 2000.
- 21- **Osama B. Abdel Halim** Ali, A. El Gamal, Hosny Abdel Fattah and Koichi Takeya "Glycosidic alkaloids from *Lupinus varius*" *Phytochemistry*, 51, 5-9, 1999.
- 22- Yoko Arai, Tomomi Nakagawa, Mari Hitosugi, Hiroyuki Ageta and **Osama B. Abdel Halim** "Chemical constituents of aquatic fern *Azolla nilotica*" " *Phytochemistry*, 48, 471, 1998.
- 23- Hosny Abdel Fattah and **Osama B. Abdel Halim** "Cytotoxic Anthraquinones from *Asphodelus Aestivus* tubers Part II" - 26<sup>th</sup>. Conference of Pharmaceutical Sciences, Cairo, 1998
- 24- **Osama B. Abdel Halim**, Ahmed F. Halim, Hosny, A. Abdel Fattah and Isamu Murakoshi "(+)-Sparteine N-Oxide, A lupin alkaloid from *Lygos raetam* var *sarcocarpa*" *Acta Pharmaceutica Hungarica*, 67, 9, 1997.
- 25- **Osama B. Abdel Halim**, Ahmed F. Halim, Hosny, A. Abdel Fattah and Isamu Murakoshi "Comparative chemical and biological studies of the alkaloid content of *Lygos* species qand varieties growing in Egypt" *Acta Pharmaceutica Hungarica*, 67, 241-247, 1997.
- 26- Samir A. Ross, Khalid A. Elsayed, Mark T. Haman, **Osama B. Abdel Halim**, Atallah F. Ahmed, Mamdouh M. Ahmed "Phytochemical analysis of *Geigeria alata* and *Francoeuria crispa* essential oil" *Planta Med.*, 63, 479, 1997.
- 27- Hidekazu Nagaya, Yoneko Tabite, Toshiki Nagae, Hideji Itokawa, Koichi Takeya, Ahmed F. Halim and **Osama B. Abdel Halim**, "Cytotoxic triterpenes from *Cleome africana*" *Phytochemistry*, 44, 479, 1997.
- 28- Hosny Abdel Fattah, **Osama B. Abdel Halim** Hidekazu Nagaya, Koichi Takeya and Hideji Itokawa "Cytotoxic bianthrone C-Glycosides from *Asphodelus Aestivus* tubers" *Alex. J. of Pharm. Sci.*, 11, 77, 1997.

- 29- Osama B. Abdel Halim and Hosny Abdel Fattah “Macro and micromorphology of *Colchicum ritchii* R. BR.” *Mans., J. Pharn. Sci.* 13, 89, 1997.
- 30- Osama B. Abdel Halim, Toshikazu Sekine, Kazuo Saito, Ahmed F. Halim, Hosny, A. Abdel Fattah and Isamu Murakoshi “Reconfirmation of the structure of (+)-Retamine from the aerial parts of *Lygos raetam* by X-ray analysis” *Phytochemical Analysis*, 6, 302, 1995.
- 31- Hosny Abdel Fattah, Samih El-Dohmy, Mahmoud Abdel-Aal, Ahmed F. Halim and Osama B. Abdel Halim “Phenolic compounds from *Rumex bucephalophorus*” *Scientica Pharm.*, 63, 57, 1995.
- 32- Zidan Z. Ibrahim, Faten M. Darwish, Osama B. Abdel Halim and Ahmed F. Halim “Carotane sesquiterpenes from *Ferula Senica* Boiss” *Alex. J. of Pharm. Sci.*, 9, 115, 1995.
- 33- Osama B. Abdel Halim, “(-)-6- $\alpha$ -Hydroxylupanine, A lupin alkaloid from *Lygos raetam*” *Phytochemistry*, 40, 1323, 1995.
- 34- Osama B. Abdel Halim, Ahmed F. Halim and Fomio Ikegami “Amino acid composition and contents of the seed of *Lygos raetam*, *Lygos raetam* var *sarcocarpa* and *Tephrosia apollinea*” *Zagazig J. of Pharm. Sci.*, 4, 126, 1995.
- 35- Ahmed F. Halim, Mohammed M. Amer, Mohammed M. Mashaly, Osama B. Abdel Haim and H. L. D. Pooter “Chemical composition of the flower head essential oil of *Otahtus maritima*” *Zagazig J. of Pharm. Sci.*, 2, 178, 1993..
- 36- Ahmed F. Halim, Mohammed M. Amer, Mohammed F. Lahloub and Osama B. Abdel Haim “3-Hydroxy Kojic acid from *T. stans*” Annual 23<sup>rd</sup>. congress on medicinal research, Antwep, Beljium, 1992.
- 37- Osama B. Abdel Halim, Toshikazu Sekine, Kazuo Saito, Ahmed F. Halim, Hosny, A. Abdel Fattah and Isamu Murakoshi “(+)-12- $\alpha$ -Hydroxylupanine, A lupin alkaloid from *Lygos raetam*” *Phytochemistry*, 31, 3251, 1992.
- 38- Osama B. Abdel Halim, Fomio Ikegami, Ahmed F. Halim, Hosny, A. Abdel Fattah, Arai, J., Fujii, Y., Toshikazu Sekine, and Isamu Murakoshi “Inhipitory effects of some 8-prenylflavones isolated from *Tephrosia apollinea* on platlet aggregation” *Thia J. Pharm Sci.*, 16, 3, 1992
- 39- Ahmed F. Halim, Mohammed M. Amer and Osama B. Abdel Haim “Comparative macro and micromorphology of *Tecoma grandiflora*, *T. capensis* and *T. stans*” Part 1 the stem and the leaf. 18<sup>th</sup>., Conference of Pharmaceuital Sciences, Cairo, 1989.
- 40- Ibid, Part II, The flower.

## CURRENT ACADEMIC ACTIVITY

1. Operation of many laboratory instruments including HPLC, 270 & 500MHz NMR, [α]<sub>D</sub>, CD, IR and UV.
2. Isolation and identification of the bioactive contents of some medicinal plants and marine algae as alkaloids, anthraquinones, flavonoids, mono-, di-, tri- and sesquiterpenes and phenolic compounds.
3. Biotechnology of natural products for production of bioactive pharmaceutical compounds by biotransformation.
4. Operating some biological experiments as Tyrosinase inhibitory activity, Antioxidant activity and Gastro protective activity.
5. Pharmacognostical study of medicinal plants.
6. Natural product Chemistry.
7. Microbial transformation of natural products & Tissue culture.
8. Spectroscopy & Narcotics
9. Applied Pharmacognosy
10. Herbal medicine, Herbal formulations & Profit medicine.
11. Drug-Herb-Nutrient interactions, Facts you need to know and How to avoid them.
12. Selected as a reviewer in the Journal of Saudi chemical society and other international journals in the field of chemistry and biology of natural products since 2011.

## RESEARCH INTEREST

- 1- Chemical and biological study of some folk herbal medicine,
- 2- Bioconversion of natural products for production of bioactive pharmaceutical compounds.

## CURRENT RESEARCH ACTIVITY

- 1- Chemical and biological study of some Egyptian folk herbal medicine, as *Origanum majuranum*
- 2- Chemical and biological study of *Crinum yemenese*
- 3- **Grant of 2000000 SAR from Strategic research KAST of "Space Time Atomic force Microscopy investigations of the effect of *Nagila Sativa* on the morphological and nano-mechanical properties of individual Alzheimer cells in simulated physiological environments"**
- 4- **Proposal title for scientific chair in Tibah University : scientific chair in research and studies on Tobacco and Narcotics.**



