# CURRICULUM VITAE \_2014

Seif Eldin Abdel RahmanMohammed [Ph.D. Apiculture; PostDoctorate Biochemistry]

DEPARTMENT:	Natural Resources Development
	Research
TITLE:	Assistant Professor
NATIONALITY:	Sudanese
DATE OF BIRTH:	January 01, 1973
PLACE OF BIRTH:	Ad doma, Gezira State
MARITAL STATUS:	Married and father of one son
INSTITUTIONAL ADDRESS:	National Center for research, Environment and
	Natural Resources Research Institute (ENRRI),
	Khartoum- Sudan
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HOME ADDRESS:	Khartoum, Gabra, Sq. 3, house No. 230, 2 <sup>nd</sup>
	floor
E- MAIL ADDRESS:	seifo169@yahoo.com, Seifo169@hotmail.com
EDUCATION BACKGROUND:	
2009-2010	Postdoctorate: Protein Structure, Function &
	Bioinformatics Laboratory. International Centre
	For Chemical & Biological Sciences, (H.E.J.
	Research Institute of Chemistry, Dr. Panjwani
	Centre for Molecular Medicine & Drug
	Research), University of Karachi, Karachi –
	75270, Pakistan.
	Research topic: Characterization of Proteins /
	Peptides from Natural Honey
2006-2008	Ph.D. Apiculture, Sudan Academy of Sciences
	Council of Biosciences, Advanced Technologies
	and Environment.

1995-1998	<ul><li><i>Thesis title</i>: Characterization of Honey Proteins</li><li>of Different Unifloral Origins.</li><li>M.Sc. Agriculture, Faculty of Agriculture,</li><li>University of Khartoum.</li></ul>
	Thesis title: Studies on the Purity and Quality of
	the Sudanese Honeys.
	B.Sc. Agriculture (honors) class two division one
	Faculty of Agriculture, University of Khartoum.
	Field of study: Crop protection.
ACADEMIC RANKS:	
1993-1997	Research Assistant
1998- 2007	Researcher
2008- to date	Assistant Professor
HONORS AND AWARDS:	
1995	NCR M.Sc. Research grant
2006	NCR PhD Research grant
May 2009- June 2010	TWAS-ICCBS Postdoctorate fellowship
July 2011	Ministry of the Cabinet, Republic of the Sudan
	Travel Award to 2 <sup>nd</sup> International workshop on
	Industrial Biotechnology
IN SERVICE TRAINIG COUR	SES:
May 7- June 18, 1994	Course on Biostatistics and SPSS/PC+ held at the
	Centre for Data Analysis and Statistics, Tropical
	Medicine Research Institute, NCR
February 2-April 26, 2003	Course on English for especial purposes (ESP)
	and capacity building held at the Sudan National
	Centre for languages (SUNACEL- SELTI)

September 2 - 9, 2006	Course on: Basic Molecular Biology held at the
	National Central Laboratory, Ministry of
	Science and Technology
June 18 - 26, 2007	Course on: Quality Management Systems ISO
	9001:2000 Essentials, Documentation and
	Internal Auditing held at the Sudanese German
	Centre for Qulity Assurance

August 6-16, 2012 workshop on: Bioinformatics, organized jointly by the Department of Biochemistry, Faculty of Medicine, U of K & the Department of Medical biotechnology, Commission for Biotechnology & Genetic Engineeering, NCR, in collaboration the Ttransfer of With Knowledge ThroughExpatriates Nationals (TOKTEN)-UNDP program. January 27<sup>th</sup> – March 2<sup>nd</sup> Group training course "on development of strategies

on climate chang" JICA training and dialougue programs, Tsukuba – Japan.

#### **ADMINSTRATIVE POSTS:**

2000-2005	Adminstrative supervisor of ENRRI library
October 28, 2007-August 3, 2008	Acting Head Department of Natural
	Resources Developmen Research
August 3, 2008- 2013	Head Department of Natural Resources
	Research & Developmental Studies

# MEMBERSHIP IN COMMITEES AND

## **PROFFESSIONAL SOCIETIES:**

Sudan Bee and Agriculture Pioneers in
Developement
Sudanese Beekeeping Society
Sudanese Eviromental Conservation Society
Environmentalists Society
The Arab Beekeepers Union
The technical Comittee of Honey Standards
Sudanese Standards and Meterology
Organization (SSMO)
The committee of Beekeeping Legislations and
Policies, Ministry of Livestock, Fisheries and
Rangelands
The technical committee of wild life [Bees],
Khartoum State Ministry of Agriculture- Animal
Resources and Irrigation

# **TECHNICAL EXPERIENCE:**

Chromatography: GPC, IEXC, RP-HPLC Electrophoresis: 1DE Chemilumminescence Spectroscopy [UV/Mass] Sample extraction and manipulation techniques: Lypholization, speed vaccum concentaration, etc. Project Cycle Management Statistics

## **RESEARCH POJECTS HANDLED:**

- 1. Physical, Chemical and Biological Characterization of honey
- 2. Structural and Functional Characterization of honey proteins

# **ONGOING PROJECT:**

 Proteins and Peptides Purification, Structural Characterization, and Biological Activity Evaluation of Bee Hive (Honey, Royal Jelly, Bee Venom, Propolis) Products

# **FEILDS OF INTERESTS:**

- 1. Proteins/glycopeptides as immunodulators and bioactive componets
- 2. Structural/functional relationships of proteins/peptides isolated from functional foods
- 3. Isolation and identification of pesticides/drugs residues from honeybee products
- 4. Aggressiveness phermones of African bees
- 5. Nutritional requirement of honeybee colony
- 6. Beekeeping as community driven income-generation activity
- 7. Statistical applications in data collection, monitoring, and analysis
- 8. Database manipulation, management, and information systems
- 9. Planing, evaluation, and follow up of research projects

## **ACADEMIC SUPERVISION:**

	Currently	graduated
A. undergraduate students	_	10
B. Postgraduate students	5	3

## **Teaching activities:**

Course	Degree	Faculty/College
Practical Apiculture	Diploma	Merrawi Technical
		College
• Api504	M.Sc./D	Sudan Academy of
Sciences		
• Api505	M.Sc./D	Sudan Academy of
Sciences		
• Api5081	M.Sc./D	Sudan Academy of
Sciences		

# **Teaching related activities**

- 1. Preparation of the Course Structure and Syllabus for M.Sc./D [Sudan Academy of Sciences]
- 2. Establishment of honey quality control lab. For SSMO.

# **PUBLICATION LIST:**

- A. Peer reviewed
- Mohammed, S. A. & Azim, M. K. (2012). Characterization of natural honey proteins: implications for the floral and geographical origin of honey International Journal of Food Science and Technology, vol. (47) 2, 362-368.
- Mohammed, S. A. & Babiker, E. E. (2010). Identification of the floral origin of honey by amino acid composition. Australian Journal of Basic and Applied Science, 4(4): 552-556.
- Mohammed, S. A. & Babiker, E. E. (2009). Protein structure, Physicochemical Properties, and Mineral Composition of Apis mllifera Honey Samples of different Floral origins. Australian Journal of Basic and Applied Science, 3(3): 2477-2483.
- Mohammed, S. A. & Ali, E. E. (2008). Preliminary Test for the Occurence of Adulterants in Commercial Sudanese Honeys. Sudan Journal of Agricultural Research Vol. x pp. Xx.
- Mohammed, S. A. & Ali, E. E. (2005). Study on the quality characteristics of some Sudanese honeys. Sudan Journal of Agricultural Research Vol. 5 pp. 83-88.

- Mohammed, S. A., Sajjad, A., & Azim, M. K. (2014). Isolation of 62 kDa protein with antioxident properties from natural honey. Journal of the Chemical Society of Pakistan, 36(4).
- Musa, M. Y.; Elfaki, A. E.; & Mohammed, S. A. (2014). Microbiological characterization and physicochemical micobiology research journal, 4(6): 715-722.properties of Sudanese honeys. British
- Mohammed, S. A. (2014). Comparison of the chemical composition and heating regimes on stored Apis mellifera and Apis florea honeys. British journal of applied science and technology (in press).
- B. Submitted articles
- Mohamed, Mohammed, S. A., Kabashi, A. S., Koko, W. S., & Azim, M. K. (2014). Purification of Proteins with *In Vitro* Antigiardial Activities from *Ziziphus* Honey. *Parasitology Research*.
- 10. El-Niber, M. A., EL-Niweiri, M., and **Mohammed, S. A.** (2014). Palynology of honey from Sudan: implication for the honey identity and misdesignation. *Palynology*.
- 11. Elzaki, E. E. A. and Mohammed, S. A. (2014). Description of the general marketing situation of the honeybee products in Khartoum state of Sudan. University of Khartoum Journal of Agricutural Sciences.
- C. Conference/Workshop
- Mohammed, S. A. & Azim, M. K. (2011). Protein profiles of natural honey from North Africa & South Asia. The 2<sup>nd</sup> International Conference on Industrial Biotechnology.Cairo- Eagypt. July 20-21, 2011. http://www.arabbiotech.net/
- Mohammed, S. A. & Babiker, E. E. (2009). Protein patterns & some physicochemical characeristics of unifloral honeys. The 6 th Arab International Apicultural Conference. Abha- Saudia Arbia. March 17-19, 2009. www.saudibi.com/files/image/pdf/conT6/45.doc
- 14. Mohammed, S. A. & Babiker, E. E. (2009). Mineral constituents and toxic metals of unifloral honeys. The 6<sup>th</sup> Arab International Apicultural Conference

Abha-SaudiaArbia.March17-19,2009.www.saudibi.com/files/image/pdf/conT6/45.doc

- 15. Mohammed, S. A. & Babiker, E. E. (2009). Comparison of amino acid composition between honeys of different floral origins. The 6<sup>th</sup> Arab International Apicultural Conference. Abha- Saudia Arbia. March 17-19, 2009. www.saudibi.com/files/image/pdf/conT6/45.doc
- 16. Satti, A. A and Mohammed, S. A. (2009). Effect of forage plant source and apiary care on performance of Carnio-Egyptian honey in Sudan: a case study on effect of Neem tree & Sunflower. The 6 th Arab International Apicultural Conference. Abha - Saudia Arbia. March 17-19, 2009. www.saudibi.com/files/image/pdf/conT6/45.doc
- 17. Mohammed, S. A. (2005). Effect of the processing heat on the formation hydroxy methyl furfural in stored Apis mellifera & Apis florae honeys. The 2<sup>nd</sup> National conference of integrated pest management in the Sudan (NCIPM) Gezira university, Wad Medani, 6-8 November 2005.
- Mohammed, S. A. & Ali, E. E. (2005). Preliminary Test for the Occurence of Adulterants in Commercial Sudanese Honeys. The 4<sup>th</sup> Arab International Apicultural Conference. Damuscus- Syria, March 24-27, 2005.
- Mohammed, S. A. et al. (1997). Beekeeping in Sudan present status & future prospects. Ministry of Agriculture & Forestry Sudan & the International Centre for Insect Physiology & Ecology (ICIPE) Nairobi joint workshop on scientific collaboration. Khartoum, December 6-7, 1977.
- 20. The 5<sup>th</sup> Arab International Apicultural Conference (Tripoli- Libya) 25-28 November 2007.
- 21. Mohammed, S. A. (2012). Beekeeping A promising Poverty Alleviation Activity: the Case of Blue Nile State Return and Reintegration Assistance For Sudanese Refugees. APIEXPO AFRICA -Addis Ababa-Ethiopia. September 26<sup>th</sup> – 30<sup>th</sup> ,2012. <u>http://www.apitradeafrica.org/apiexpo-africa-2012.html</u>
- 22. Mohammed, S. A. (2012). Changes in the chemical Nature of Apis mellifera & Apis florea honeys due to heating & storage periods. APIEXPO AFRICA Addis Ababa-Ethiopia. September 26<sup>th</sup> 30<sup>th</sup> ,2012. <a href="http://www.apitradeafrica.org/apiexpo-africa-2012.html">http://www.apitradeafrica.org/apiexpo-africa-2012.html</a>
- 23. Elzaki, E. E. A. and Mohammed, S. A. (2012). Household's Honey Consumption and Preference due to Honey's Criterions in Khartoum State of

Sudan. APIEXPO AFRICA 2012-Addis Ababa-Ethiopia. September 26<sup>th</sup> – 30<sup>th</sup> ,2012. <u>http://www.apitradeafrica.org/apiexpo-africa-2012.html</u>

- 24. Mohammed, S. A., Sajjad, A., & Azim, M. K. (2011). Isolation of 62 kDa protein with antioxident properties from natural honey. Conference Peoceedings of International Conference on Natural products. (ICNP 2013), 4-6 March 2013, Shah Alam Convention Centre, Shah Alam, Selangor, Malaysia. <u>http://www.benthamscience.com/open/toprocj/openaccess2.htm</u>. [DOI: 10.2174/2210289201304010295].
- 25. Algizouli, A.; Mohammed, S. A.; Eltahir, I.; and Elkhidir, I. M. (2013). Antimicrobial activity of propolis. Conference Peoceedings of International Conference on Natural products. (ICNP 2013), 4-6 March 2013, Shah Alam Convention Centre, Shah Alam, Selangor, Malaysia.. <u>http://www.benthamscience.com/open/toprocj/openaccess2.htm</u>. [DOI: 10.2174/2210289201304010296].
- 26. Musa, M. Y.; Elfaki, A. E.; and Mohammed, S. A. (2013). Microbiological characterization and physicochemical properties of Sudanese honeys. Conference Peoceedings of International Conference on Natural products. (ICNP 2013), 4-6 March 2013, Shah Alam Convention Centre, Shah Alam, Selangor, Malaysia. <a href="http://www.benthamscience.com/open/toprocj/openaccess2">http://www.benthamscience.com/open/toprocj/openaccess2</a> <a href="http://www.benthamscience.com/open/toprocj/openaccess2">http://www.benthamscience.com/open/toprocj/openaccess2</a> <a href="http://www.benthamscience.com/open/toprocj/openaccess2">http://www.benthamscience.com/open/toprocj/openaccess2</a>
- D. Technical reports
- 27. Mohammed, S. A. et al. (1994). The effect of Neem seed kernel & leaves extracts on the development , feeding and mortality of the Khapra beetle (Trogoderma granarium) larvae. The annual scientific report (ENRRI 94).
- 28. Mohammed, S. A. (1999). Comparative study between the honey produced by the honeybees Apis mellifera & Apis florae . The annual scientific report (ENRRI 1999).
- 29. Mohammed, S. A. (2003). Effect of the storage on honey glucose, fructose, sucrose, total acidity & pH . The annual scientific report (ENRRI 2003).
- 30. Mohammed, S. A. (2012). Alteration in the chemical composition of Apis mellifera & Apis florae honeys due to heating & storage periods The annual scientific report (ENRRI 2009-2010).

- 31. Elzaki, E. E. A. and Mohammed, S. A. (2012). Household's Honey Consumption and Preference due to Honey's Criterions in Khartoum State of Sudan. The annual scientific report (ENRRI 2013).
- 32. Beekeeping baseline assessment report (June, 2011-FAO).
- 33. Baseline survey on apicultural and aquacultural activities in Dinder biosphere reserve (June, 2012-MOIWR).

# PARTICIPATION IN COMUNITY DEVELOPEMENT Based NGOS PROJECTS:

May 1- June 3, 2008	Project: Return and reintegration assistance
	For Sudaneses refugees
	Location: Blue Nile
	Implimenting agency: International Rescue
	Committee
	Donor: PRM
	Position held: Beekeeping course facilitator &
	Instructor
	Participants: 87 refugees
January 1- 15, 2009	Project: Kurmuk & Geissan Recovery and
	Rehhabilitation (RRP01)
	Location: Blue Nile (Consortium programme)
	Implimenting agency: Islamic Relief
	Donor: UNDP
	Position held: Beekeeping course facilitator &
	Instructor
	Participants: 60 refugees
January 16- 31, 2009	Project: Kurmuk & Geissan Recovery and
	Rehhabilitation
	Implimenting agency: Save the Children-
	Sween & Child RightsInstitute
	Donor: UNDP
	Position held: Beekeeping course facilitator &
	Instructor
	Participants: 40 refugees

Jan. 23- Feb. 3, 2011	Project: Training workshop on Beekeeping &
	Honey extraction
	Location: Kurmuk & Geissan
	Implimenting agency: Islamic Relief
	Donor: FAO
	Position held: Beekeeping course facilitator &
	Instructor
	Participants: 50 refugees
March 3- 5, 2011	Food security and livelihood sector coordination meeting (FAO meeting hall)
March 14- 18, 2011	Baseline Beekeeping Assessment in Blue Nile State
	Project: setting of beekeeping strategies in the
	Blue Nile State
	Position held: Consultant & Team leader
March 18- 31, 2012	Baseline survey on Apicultural and Aqua-
	culcural Activities in Dinder Bioshere Reserve
	Position held: Consultant & Team leader
February 15- 24, 2014	Pro-Poor Value Chain Integration for Peace and
	Early Recovery in Darfur
	Location: Bindizi- Central Darfur State
	Implimenting agency: TGH
	Donor: UNDP
	Position held: Consultant and Course Instructor
	Participants 60 rfugees