

File

**Title** Dr.( Associate Prof.)

**Name:** INAS OSMAN KHOJALI

**Department:** Chemistry

**College:** Applied & Industrial Sciences.

**University:** Bahri

**Contacts:** Mob. : 0902971287 / 0919353808 e-mail address:  
nosakhojali01@yahoo.com

**Academic Qualifications:**

**1992-1996** B.Sc.(Honors) Chemistry -University of Khartoum-  
Faculty of Science.

**Dissertation title:**

**Extraction of naringin from Grap-fruit.**

M.Sc. Chemistry

**1997-1999**

University of Khartoum

**Thesis title:**

**Spectrophotometric speciation of Fe(II) and Fe(III) using hydrazone-micelle systems and flow injection.**

**2006- 2010**

Ph.D. Chemistry

University of *Juba* &University of Putra Malaysia

**Thesis title:**

**Phytochemical study of the constituents of *Garcinia mangostana*, *Mimosa pigra*, *Acacia nilotica* var *astringes* and *Cassia fistula*.**

**Professional Experience:**

| Period    | Name of University                                                              |
|-----------|---------------------------------------------------------------------------------|
| 1996-2000 | Teaching assistant( part time), Faculty of Science, University of Khartoum      |
| 1997-1999 | Teaching assistant (part time) , Faculty of Veterinary, University of Khartoum  |
| 1997-2000 | Teaching assistant (part time), Faculty of education , university of Al/ Azhary |

|                          |                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>1998-1999</b>         | <b>Teaching assistant (full time), College of Applied and industrial Science, University of Juba</b>                       |
| <b>1999-2010</b>         | <b>Lecturer (full time), College of Applied and Industrial Science, University of Juba</b>                                 |
| <b>2000-2001</b>         | <b>Lecturer (Part time), Faculty of engineering, university of Juba</b>                                                    |
| <b>1999-2001</b>         | <b>Head of Chemistry Department, College of Applied Science, University of Juba</b>                                        |
| <b>2001-2002</b>         | <b>Coordinator for lab technology diploma ,College of Applied Science, University of Juba</b>                              |
| <b>2016-2018</b>         | <b>Assistant/ Associate professor (Part time), faculty of Sciences, International University of Africa, master program</b> |
| <b>2611-2610</b>         | <b>Assistant professor (full time), College of Applied and Industrial Science, University of Bahri</b>                     |
| <b>2015-2018</b>         | <b>Head of Chemistry Department, College of Applied and Industrial Science, University of Bahri.</b>                       |
| <b>July 2016 To date</b> | <b>Associate Professor (full time), College of Applied and Industrial Science, University of Bahri</b>                     |

**Subjects Taught:**

(1) **First year- General**

- \* Chemistry I (Gases, Thermodynamics, Chemical structure and Bonding)
- \* Chemistry II (Chemical Equilibrium, Reaction rates and Introduction to organic chemistry)

(2) **Second Year-General**

\* Stereochemistry

\* Chemometrics

(3) **Third Year-Chemistry & Industrial Chemistry**

\* Organic Molecular Types

\* Organic Reaction Types

\* Spectroscopy

(4) **Fourth Year-Chemistry & Industrial Chemistry**

\* Heterocyclic chemistry

(5) **Fifth Year- Chemistry & Industrial Chemistry**

\* Natural products

- \* Pharmaceuticals and dyestuff
- \* Pericyclic reactions and photochemistry.
- \* Synthetic Strategy in Organic Chemistry
- \* Nuclear Magnetic Resonance Spectroscopy

**(6) First Year - Laboratory Technology Diploma**

- \* General Chemistry I
- \* General Chemistry II

**(7) Second Year - Laboratory Technology Diploma**

- \* Chemical Analysis I

**(8) Second Year - Laboratory Technology Diploma**

- \* Chemical Analysis II

**(9) Post Graduate Courses (M.Sc. International University of Africa)**

- \* Advance Organic Chemistry
- \* Natural Products
- \* Synthetic Strategies
- \* Pharmaceuticals.

### **Other Academic Activities**

- \* Taught different Practical courses.
- \* External Examiner for M.Sc. and Ph.D. Researchers at Alneelein University.
- \* Internal Examiner for M.Sc. and Ph.D. Researchers at University of Bahri
- \* Promotion assessor for a number of Associate Professors at several universities.
- \* Reviewer for some scientific journals.

### **Workshops, training courses and conferences attended:**

- 1- Natural products conference (International). UM. Kuala Lumpur Malaysia 2009
- 2- Publishing For Postgraduates workshop (28<sup>th</sup>-29<sup>th</sup> March 2009). UPM. Malaysia.
- 3- Cracking the Code. An Induction Workshop for Master/Ph.D Students. (7<sup>th</sup>-8<sup>th</sup> February 2009) at Conference Hall, External Educational, Universiti Putra Malaysia.
- 4- Training course on: The use of Modern Technologies in Academic Research and teaching (19<sup>th</sup>- 26<sup>th</sup> May 2013). University of Bahri.
- 5- Training course for Faculty Professional Development (26<sup>th</sup> March-4<sup>th</sup> April 2013). University of Bahri.
- 6- Training course in: University achievement test designing (3<sup>th</sup> -4<sup>th</sup> Feb.2016). University of Bahri.
- 7- Training workshop No.4 on: Strategic Planning using Balanced Scorecards (30<sup>th</sup> Jan.-2<sup>nd</sup> Feb.2016). University of Bahri.

- 8- Workshop on writing, designing and assessment of the review book.(13<sup>th</sup>- 16<sup>th</sup> August 2018) .University of Bahri.

**\*Membership** of Sudanese Chemical Society.

**\*Membership** of the Committee of Chemistry and Applications-Ministry of Higher Education and Scientific Research. Sifns@hotmail.com

**Postgraduate supervision:**

- **Supervised:**
- Msc. Phytochemical study of the constituents of *Acacia albida*. (Mashaeer Mahjob. University of Dongla) (Date of registration 2012).
- Msc. Chemical Study and Antioxidant activity of Siddir (*Ziziphus Spina*) Roots Extracts (Zeinab Abd-Elmoniem Abd-Rlrahman. International University of Africa) (Date of registration 2017)
- M.Sc. GC-MS analysis of compounds from *Mimosa pigra* Extracts (Asma Mahmoud. International University of Africa)( Date of registration 2017)
- M.Sc. Determination and comparison of Vitamin C contents and antioxidant activity of some natural and commercial fruit juices.(Rayan Alamin Mohammed Ahmed. University of Bahri) (April 2022).
- M.Sc. Chemical Constituents, Physicochemical and some Biological Characteristics of *Shea* butter by using different extraction methods.(Suliman....University of Bahri)(August 2022).
- Ph.D. Quantitative Structure-Activity Relationships Study of Cytotoxicity of 8Aminopyrimido[4,5-c] isoquinoline quinones (Mukhtaar Qaaed Saleh Sultan. University of Bahri)(Date of Registration 2018)
- Ph.D. Analysis of the Cytotoxicity of Some Phenanthridine-1, 7, 10(4H)-triones against SK-MES-1d Human lung cancer cell line.via Molecular Modeling

(Moeen Ahmed Al Mansori) (Date of registration 2019)

□ **Co-supervised:**

- Ph.D. Phytochemical study of some Sudanese plants (Nafysa Hassan. University of Sudan) (Date of registration 2011).
- M.Sc. pyrolysis products of *Acacia seyal* wood (University of Alahfad) (Date of registration 2012).

**PUBLICATIONS:**

1. Characterization and Antibacterial Activity of an Isoflavone from the Sudanese Material of *Moringa oleifera*. (Inas, O, K., Abdel Karim M., & Cheng Lian, G.E.). Journal of Forest Products & Industries, November, 2014, 3(6): 241-247, ISSN: 23254513(PRINT) ISSN: 2325-453X (ONLINE).
2. GC-MS Analysis of Fixed Oil from Sudanese *Maerua pseudopetalosa* (Glig and Ben.) De Wolf Roots. (Inas, O.<sup>1</sup>, Abdel Karim, M.<sup>2(\*)</sup>, Mohamed, A.F.<sup>3</sup>, and ELHafez, M.<sup>4</sup>) - International Journal of Advanced Research (2016), Volume 4, Issue 5, ISSN 2320-5407.
3. Isolation and Identification of Flavonoids from Heartwood of *Acacia nilotica* var *nilotica* and their Antibacterial Activity. (M. Karim<sup>1(\*)</sup>, A. M. Alraih<sup>2</sup>, Inas, O.K<sup>3</sup>, M.A Alansari<sup>4</sup>, and M. E. Moharan<sup>5</sup>) - International Journal of Advanced Research (2016), Volume 4, Issue 4, 728-736, ISSN 2320-5407.
4. GC-MS Analysis and Biological Activity of Fixed Oil from Sudanese *Cajanus cajan* (L.) (Leguminosae) seeds. (Abdel Karim. M.<sup>1\*</sup>, Zohor. M.<sup>1</sup>, Inas. O.<sup>2</sup> and EL-Hafez.

- M.<sup>3</sup>.)- International Journal of Advanced Research (2016), Volume 4, Issue 4, 13731380, ISSN 2320-5407.
5. Isolation and Characterization of A Flavone from the Leaves of *TAMARIX NILOTICA*(TAMARICACEAE).( Abdel Karim,M.<sup>1\*</sup>, Amani, H.<sup>2</sup>, Inas,O.<sup>3</sup> and ElHafez,M.<sup>4</sup>.)- International Journal of Advanced Research (2016), Volume 4, Issue 4, 1366-1372, ISSN 2320-5407.
  6. Isolation, Characterization and some Biological Activities of a Xanthone from *Garcinia mangostana*. (Inas, O, K.,Abdel Karim M., &Cheng Lian, G.E.) – Journal of Forest Products & Industries, September, 2014, 3(5): 216-220, ISSN: 23254513(PRINT) ISSN: 2325-453X (ONLINE).
  7. A new Triterpene from the Stem Bark of *Cassia fistula*. (Inas, O, K.,Abdel Karim M., &Cheng Lian, G.E.) , Sudan Journal for Basic Sciences (SJBS). SJBS (C), (2013), 21: 45-50.
  8. Characterization and Some Biological Activities of a Flavonol Isolated from *Cassia occidentalis* Leaves. (Abdel Karim M, Adil, A.Mujwah. Abd Elrazig, E.H., Kamal, E., and Inas, O, K.). Journal of Applied and Industrial Sciences, December, 2014, 2 (6): 250-254, ISSN: 2328-4595 (PRINT), ISSN: 2328-4609 (ONLINE).
  9. Isolation of a Flavone from the Sudanese Material of *Cassia kordofania* (Leguminosae). (Abdel Karim M, Adil, A.Mujwah. Abd Elrazig, E.H., and Inas, O, K.). Journal of Applied and Industrial Sciences, 2013, 1 (3): 23-29, ISSN: 2328-4595 (PRINT), ISSN: 2328-4609 (ONLINE)
  10. First Isolation of a Dihydroflavonol from *Acacia nilotica* (L.) Willd.ex.Del subspecies astringens Stem Bark. (Inas, O, K.,Abdel Karim M., &Cheng Lian, G.E.). Sudan Journal for Basic Sciences (SJBS). SJBS (C), (2013), 21: 9-16.
  11. Synthesis and Biological Activity of Some Mannich Bases. (Abdel Karim.M. Dalia, O. & Inas,O.). Journal of Sciences. International University of Africa. Faculty of Pure and Applied Science. Volume.4,October,20,pp35-44

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*After Promotion*↓↓

12. Descriptors Combination to Follow up Response Variability of Some Known Anticancer Aminopyrimidoisoquinolinequinones; A QSAR Analysis. ( Mukhtaar Q. S. Sultan<sup>1\*</sup>, M. O. El-Fakii<sup>2</sup> and Inas O. K. Mohammed<sup>1</sup>). *World Journal of Pharmacy and Pharmaceutical Sciences*. October(2020), Volume 9, Issue 11, 14711480.
13. Antimicrobial and Antioxidant Activity of Different Fractions of *Acacia albida*. (Inas O.K.<sup>1</sup> and Masheer M.H<sup>2</sup>). *The Intrnational Journal of Science & Technoledge*. September( 2021), Volume 9, Issue 9, ISSN 2321 – 919X.
14. Constituents and Antimicrobial Activity of *Momordica charantia* Seed Oil. ( Inas, O.K.<sup>1</sup>, Abdalgader, M.<sup>2</sup>, Abdel Karim, M.<sup>2</sup>). *The Pharmaceutical and Chemical Journal*. (2021), Volume 8, issue 6, ISSN: 2349-7092.
15. GC-MS Analysis and Biological Activity of Sudanese *Citrullus Lanatus* L.(CUCURBITACEAE) Fixed Oil. ( Abdel Karim M.<sup>1\*</sup>, Balsam, O.<sup>2</sup> and Inas,O.<sup>3</sup>). *World Journal of Pharmaceutical and Life Sciences*. December (2016). Volume. 2, Issue 6, 503-512.
16. Follow up of the Cytotoxicity of Some Dihydrophenanthridine- 1,7,10(4H)- Triones Against SK-MES-1 Human Lung Cancer Cell Line Via QSAR. ( Maeen Ahmed M. A. AL-Mansori\*, Mohamed Osman M. A. El-Fakii<sup>2</sup> and Inas O. Khojali<sup>1</sup>). *World Journal of Pharmacy and Pharmaceutical Sciences*. November (2020), Volume 9, issue 12, 235-244.

17. Constituents and Antimicrobial Activity of *Phaseolus vulgaris* Grown in Sudan.  
(Abdel Karim M.<sup>1\*</sup>, Iman M. I.<sup>1</sup> and Inas O.<sup>2</sup>). *World Journal of Pharmaceutical and Life Sciences*. March (2021), Vol. 7, Issue 4, 179-182.
18. GC-MS Analysis and Antimicrobial Activity of Fixed Oil From Saudi *Lepidium Sativum* (CRUSIFEREAE ) Seeds. *International Journal of Advanced Research (IJAR)*.  
(Abdel Karim M.<sup>1</sup>, Sufian A.<sup>2</sup>, Kamal M.S.<sup>1</sup> and Inas O.<sup>3</sup>). March (2017). Volume 5, issue 3, 1662-1670.
19. Mechanistic Study of Anticancer Activity of Some Known Aminopyrimidoisoquinolinequinones via QSAR Classification Methodology. ( Mohamed Osman Elfaki<sup>1\*</sup>, Mukhtaar Qaaed S. Sultan<sup>2</sup>, Inas Osman Khojali Mohammed<sup>2</sup>). *Journal of Computational Chemistry*. November (2019). Volume 8, Issue 13, ISSN 2332-5984.
20. GC-MS Analysis and Antimicrobial Activity of Sudanese *Brassica nigra* L.  
(Brassicaceae) Fixed Oil. (Abdel Karim. M.<sup>1\*</sup>, Weam, A.<sup>2</sup>, Inas, O.<sup>3</sup>. *International Journal of Scientific Engineering and Applied Science (IJSEAS)*. January (2017). Volume 3, Issue 01, ISSN: 2395-3470.
21. Analysis of the Cytotoxicity of Some Dihydrophenanthridine- 1,7,10(4H)- Triones Against SK-MES-1 Human Lung Cancer Cell Line Via Molecular Modelling.( Mohamed Osman M. A. El-Fakii<sup>1\*</sup>, Maeen Ahmed M. A. AL-Mansori<sup>2</sup> and Enas Osman Khojali<sup>3</sup>). *World Journal of Pharmacy and Pharmaceutical Sciences*. September (2020). Volume 9, Issue 10, 2645-2656.
22. GC-MS Analysis and Antimicrobial Activity of Sudanese *Cucurbita Pepo* (CUCURBITACEAE) Fixed Oil. ( Abdel Karim M.<sup>1\*</sup>, Balsam, O.<sup>2</sup> and Inas,O.<sup>3</sup>). *World Journal of Pharmaceutical and Life Sciences*. December (2016). Volume. 2, Issue 6, 492502.



Student ID: 16/1-AIS-004

Certificate No. \_\_\_\_\_

جمهورية السودان  
REPUBLIC OF THE SUDAN

جامعة جوبا  
UNIVERSITY OF JUBA



## CERTIFICATE

This is to certify that

NAME INAS OSMAN KHOJALI MOHAMMED (Sudanese National)

HAS PASSED THE Final EXAMINATION

IN The College of Applied and Industrial Sciences

AND HAS BEEN AWARDED THE DEGREE OF Doctor of Philosophy

IN Chemistry

ON THE 4th March 2011

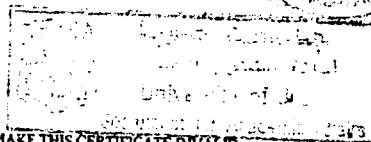
*A. T. T. H. E.*  
6/2/2011

BY THE SENATE OF THE UNIVERSITY OF JUBA

Dr. Tarig O. Khider  
DEAN OF THE COLLEGE

Dr. James Odra Galla  
SECRETARY FOR ACADEMIC AFFAIRS

Dr. Osman Roman J. Kiri  
SECRETARY FOR GRADUATE STUDIES



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ANY ALTERATION OR CHANGES MAKE THIS CERTIFICATE INVALID  
THE CERTIFICATE IS ORIGINAL WHEN SIGNED AND STAMPED

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Student ID: 1-AIS-004

Certificate No. \_\_\_\_\_

جمهورية السودان  
REPUBLIC OF THE SUDAN

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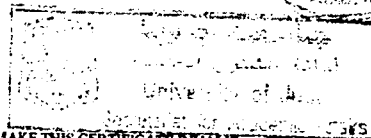
A. Tesani  
16/2/2011

BY THE SENATE OF THE UNIVERSITY OF JUBA

Dr. Tarig O. Khider  
DEAN OF THE COLLEGE

Dr. James Odra Galla  
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