جامعة الملك سعود (034)
هاتف +966 11 467 44 47
فاكس +966 11 467 42 53

المملكة العربية السعودية
ص.ب 2455 الرياض 11451
www.ksu.edu.sa

جامعة الملك سعود
King Saud University
كلية العلوم

Personal information

Name	**Dr. Naiyf Sultan Alharbi**
Nationality	Saudi
Gender	Male
Country of Birth	KSA
Institute / University (Work)	Professor at Department Botany & Microbiology/College of Science/ King Saud University
Mailing Address	Dep. of Botany & Microbiology, College of Science. King Saud University. P.O Box 2455 Riyadh 11451. KSA
Contact Numbers	nalharbi1@ksu.edu.sa
	naif0022@hotmail.com
	Phone: +966(11)4677257; Fax: +966(11)4675833
Degree	PhD of Cardiff University/ UK. March 2013
Academic Title	Professor
Major field / Specialization	Microbiology-Bacteriology / Medical Bacteria
Current Research Interests	Small Colony variants. (SCVs), Bacterial resistance to antibiotics, Bacteriophages and their application against antibiotics resistant bacteria.

Qualifications

Qualifications	Bachelor Degree	Masters Degree	PhD Degree
Name of College	King Saud University / College of Science	King Saud University / College of Science	Cardiff University / College of Biomedical & Life Sciences / Biosciences
Country/City	Kingdom of Saudi Arabia / Riyadh	Kingdom of Saudi Arabia / Riyadh	United Kingdom / Wales
The degree was awarded on:	1419/02/30 (1998/06/24)	1428/01/22 (2007/02/10)	1434/04/25 (2013/03/07)
Title of the thesis if there is one :	-	" Aflatoxigenic Mycoflora in Dust in Riyadh City Schools"	" SCVs: Formation and Charactersation in Staphylococcus SP"

Committees membership

Committee name	Participation type	From	To
Graduate Studies Committee	Member	2018/09/05	Until Now
Teaching Assistants, Lecturers& Distinguished Graduates	Member	2013/06/18	2014/08/09
Development & Quality Committee	Chairman	2014/08/09	2016/06/12
Central Microbiology Laboratory	General Supervisor	2014/09/04	2016/06/12
Steering Committee for Academic Accreditation	Chairman	2014/08/09	2016/06/12

Conferences / Symposiums

Name of Conference / Symposium	Inter./Local	Date	Place	Type of participation
FIS 2013 (Federation of Infection Societies) Action on Infection	International	1435/01/08	United Kingdom	Attendance
2014 - Exploiting bacteriophages for bioscience, biotechnology and medicine (the 5th in a biennial series)	International	1435/03/22	United Kingdom	Scientific paper
Journal of Arts & Sciences 2014 is organized annually (12)	International	1435/05/16	United States	Scientific paper
IJAS conference under the auspices of the University of San Diego	International	1435/08/18	Spain	Scientific paper
The International Conference TEAM 2014	International	1435/12/30	United States	Attendance
GLOBAL PUBLIC POLICY SYMPOSIUM 2014	International	1436/02/13	United States	Scientific paper
2015 Regional Island Sustainability Conference	International	1436/05/18	United States	Scientific paper
9th International Conference on Predictive Modelling in Food	International	1436/11/24	Brazil	Scientific paper
WHO Western Pacific Region - World Health Organization	International	1436/12/29	United States	Attendance
Gene expression techniques	International	1438/06/29	United Kingdom	Workshop
The 32nd annual meeting of the Saudi Biological Society	Local	1438/07/21	KSA/Makkah	Scientific paper

Community Services

Services
Member in lots of M.Sc. & Ph.D. theses examination committees, Department of Botany and Microbiology, College of Science, King Saud University
Main supervisor for several of M.Sc. & PhD students who carried out their research projects in the areas of bacteriology and antimicrobial.
Evaluated many research proposals for postgraduate students at the Department of Botany and Microbiology
Evaluated many research proposals for Master of Science in Biodiversity Program.
Evaluated many scientific articles in the field of bacteriology for different international scientific journals.
Participated in many local, national and international scientific and professional workshops. (e.g. Aljanadriah, Expo Scientific Phenomena, Molecular Biology, 3rd. Scientific Conference to college of science.... etc.
Organizer & Participation of a workshop entitled " Methods of prevention of Bio-toxic ingredients " held at KSU in the period 25-29 Jan. 2015 under direct supervision of the Training and Community Service Center for members of the military sectors.
Volunteer as a trainer for the National Olympiad for Scientific Creativity which was organized by MAWHIBA in the Department in the period 17-21 Nov. 2015. Who represented the Kingdom of the Science Olympics in South Korea during the period 2-11 Dec. 2015.
Organizer of a workshop entitled " Microbiological agents Risk Assessment, Methods of detections and Protections " held at KSU in the period 28th Aug. – 1st Sep. 2016 under direct supervision of the Training and Community Service Center for members of the military sectors.

Employee History

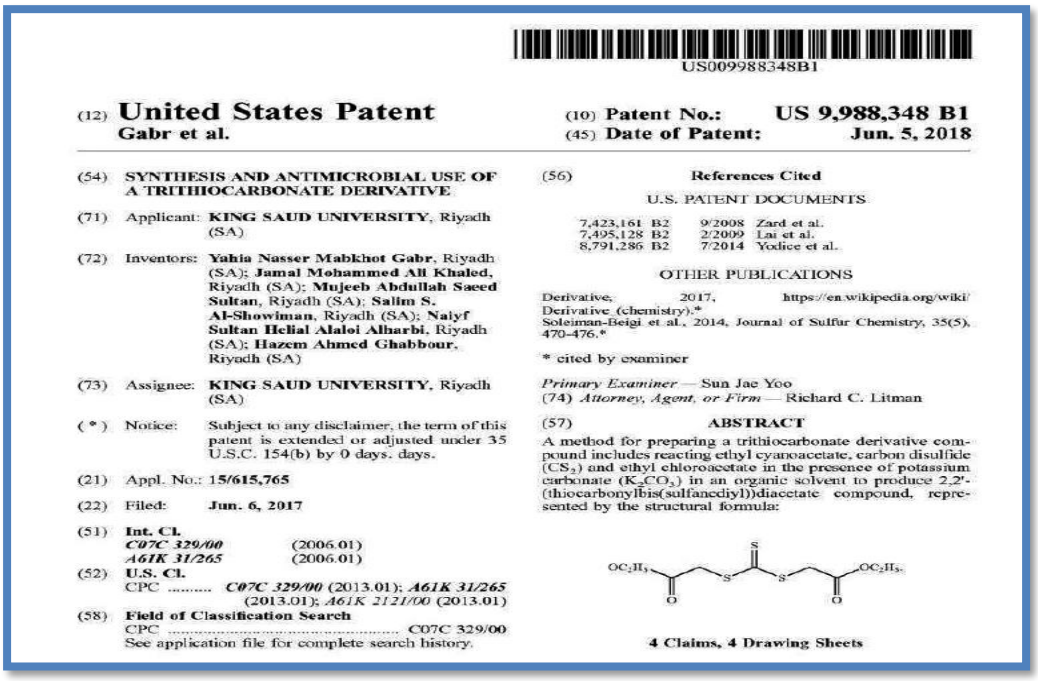
Employee History	From	To
Professor	11/10/1442	
Associate Professor	17/09/1438	10/10/1442
Assistant Professor	09/08/1434	17/09/1438
Lecturer	02/04/1429	09/08/1434
Teaching Assistant	27/12/1428	02/04/1429
Laboratory Technician	20/08/1420	27/12/1428
Administrative Position Head of department Botany & Microbiology	13/10/1435	13/10/1437

Teaching Load

No.	Course Name	Course Code
1.	Microbiology / Undergraduate	140 MBI
2.	General Bacteriology / Undergraduate	260 MBI
3.	Biodegradation / Undergraduate	335MBI
4.	Antibiotics / Undergraduate	364 MBI
5.	Training in Mic. Health Lab / Undergraduate	493 MBI
6.	Research Project /Undergraduate	499 MBI
7.	Special Topics / Postgraduate	591 MBI
8.	Seminar / Postgraduate	592 MBI
9.	Thesis Proposal Preparation / Postgraduate	596 MBI
10.	Thesis / Postgraduate	600 MBI
11.	Thesis Proposal Preparation / Postgraduate	699 MBI
12.	Dissertation - Thesis / Postgraduate	700 MBI
13.	Microbial Biodiversity / Postgraduate	554 BID
14.	Biodiversity-Seminar / Postgraduate	578 BID
15.	Research/ Postgraduate	599 BID
16.	Thesis / Postgraduate	600 BID
17.	Environmental Biology /Postgraduate	511 ENVS
18.	Food Safety/ Postgraduate	553 ENVS
19.	Seminar / Postgraduate	591 ENVS

Patents

1. SYNTHESIS AND ANTIMICROBIAL USE OF A TRITHIOCARBONATE DERIVATIVE



US009988348B1

(12) **United States Patent**
Gabr et al.

(10) **Patent No.: US 9,988,348 B1**
(45) **Date of Patent: Jun. 5, 2018**

(54) **SYNTHESIS AND ANTIMICROBIAL USE OF A TRITHIOCARBONATE DERIVATIVE**

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

(72) Inventors: **Yahia Nasser Mabkhot Gabr**, Riyadh (SA); **Jamal Mohammed Ali Khaled**, Riyadh (SA); **Mujeeb Abdullah Saeed Sultan**, Riyadh (SA); **Salim S. Al-Showiman**, Riyadh (SA); **Naiyf Sultan Helial Alaloi Alharbi**, Riyadh (SA); **Hazem Ahmed Ghabbour**, Riyadh (SA)

(73) Assignee: **KING SAUD UNIVERSITY**, Riyadh (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. days.

(21) Appl. No.: **15/615,765**

(22) Filed: **Jun. 6, 2017**

(51) **Int. Cl.**
C07C 329/00 (2006.01)
A61K 31/265 (2006.01)

(52) **U.S. Cl.**
CPC ***C07C 329/00*** (2013.01); ***A61K 31/265*** (2013.01); *A61K 2121/00* (2013.01)

(58) **Field of Classification Search**
CPC C07C 329/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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7,495,128 B2 2/2009 Lai et al.
8,791,286 B2 7/2014 Yodice et al.

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Derivative, 2017, https://en.wikipedia.org/wiki/Derivative_(chemistry).*
Soleiman-Beigi et al., 2014, Journal of Sulfur Chemistry, 35(5), 470-476.*

* cited by examiner

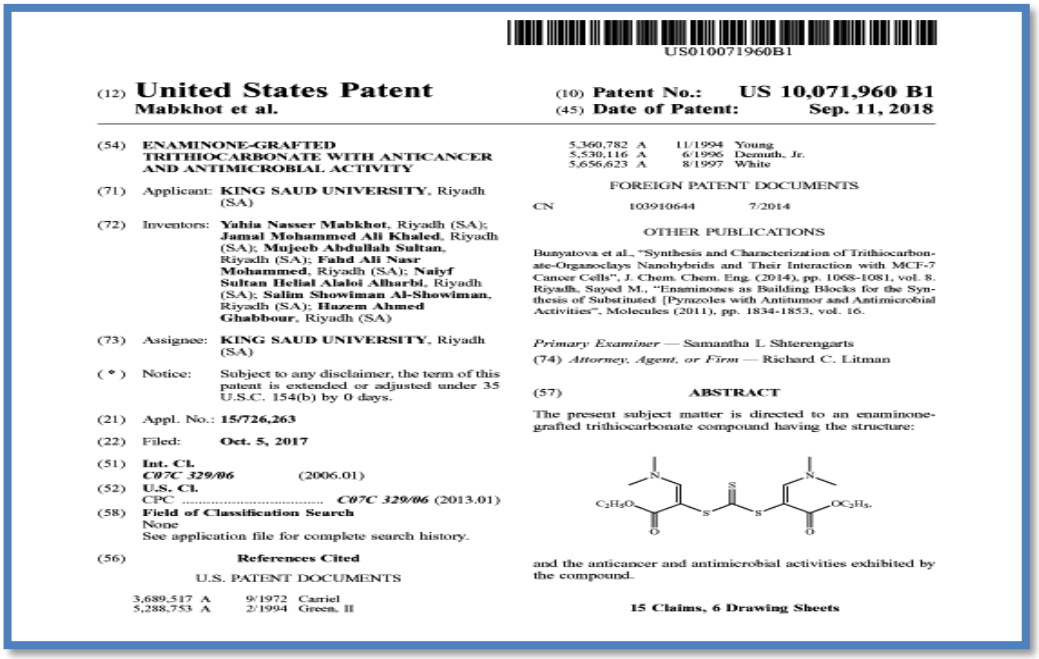
Primary Examiner — Sun Jae Yoo
(74) *Attorney, Agent, or Firm* — Richard C. Litman

(57) **ABSTRACT**

A method for preparing a trithiocarbonate derivative compound includes reacting ethyl cyanoacetate, carbon disulfide (CS_2) and ethyl chloroacetate in the presence of potassium carbonate (K_2CO_3) in an organic solvent to produce 2,2'-(thiocarbonylbis(sulfanediyl))diacetate compound, represented by the structural formula:

4 Claims, 4 Drawing Sheets

2. ENAMINONE-GRAFTED RITHIOCARBONATE WITH ANTICANCER AND ANTIMICROBIAL ACTIVITY



US010071960B1

(12) **United States Patent**
Mabkhot et al.

(10) **Patent No.: US 10,071,960 B1**
(45) **Date of Patent: Sep. 11, 2018**

(54) **ENAMINONE-GRAFTED TRITHIOCARBONATE WITH ANTICANCER AND ANTIMICROBIAL ACTIVITY**

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

(72) Inventors: **Yahia Nasser Mabkhot**, Riyadh (SA); **Jamal Mohammed Ali Khaled**, Riyadh (SA); **Mujeeb Abdullah Sultan**, Riyadh (SA); **Fahd Ali Nasr Mohammed**, Riyadh (SA); **Naiyf Sultan Helial Alaloi Alharbi**, Riyadh (SA); **Salim Showiman Al-Showiman**, Riyadh (SA); **Hazem Ahmed Ghabbour**, Riyadh (SA)

(73) Assignee: **KING SAUD UNIVERSITY**, Riyadh (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/726,263**

(22) Filed: **Oct. 5, 2017**

(51) **Int. Cl.**
C07C 329/06 (2006.01)

(52) **U.S. Cl.**
CPC ***C07C 329/06*** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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Bunyatova et al., "Synthesis and Characterization of Trithiocarbonate-Organoclays Nanohybrids and Their Interaction with MCF-7 Cancer Cells", J. Chem. Chem. Eng. (2014), pp. 1068-1081, vol. 8.
Riyadh, Sayed M., "Enaminones as Building Blocks for the Synthesis of Substituted [Pyrazoles with Antitumor and Antimicrobial Activities", Molecules (2011), pp. 1834-1853, vol. 16.

Primary Examiner — Samantha L Shterengarts
(74) *Attorney, Agent, or Firm* — Richard C. Litman

(57) **ABSTRACT**

The present subject matter is directed to an enaminone-grafted trithiocarbonate compound having the structure:

and the anticancer and antimicrobial activities exhibited by the compound.

15 Claims, 6 Drawing Sheets

3. SYNTHESIS OF THIAZOLE DERIVATIVE AS ANTICANCER AND ANTIANTIBIOTICS

US010501426B1

(12) **United States Patent**
Mabkhot et al.

(10) **Patent No.: US 10,501,426 B1**
(45) **Date of Patent: Dec. 10, 2019**

(54) **SYNTHESIS OF THIAZOLE DERIVATIVE AS ANTICANCER AND ANTI-ANTIBIOTICS RESISTANT BACTERIA AGENT**

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

(72) Inventors: **Yahia Nasser Mabkhot**, Abha (SA); **Jamal Mohammed Ali Khaled**, Riyadh (SA); **Naiyf Sultan Helial Alaloi Alharbi**, Riyadh (SA); **Fahd Ali Nasr Mohammed**, Riyadh (SA); **Fahd Abdo Almekhlafi**, Riyadh (SA); **Nael Mahmmoud Abutaha**, Riyadh (SA); **Salim S. Al-Showiman**, Riyadh (SA)

(73) Assignee: **King Saud University**, Riyadh (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/246,047**

(22) Filed: **Jan. 11, 2019**

(51) **Int. Cl.**

C07D 277/16	(2006.01)
A01N 25/08	(2006.01)
A01N 43/78	(2006.01)
A61P 35/00	(2006.01)
A61P 31/04	(2006.01)

(52) **U.S. Cl.**
CPC ***C07D 277/16*** (2013.01); ***A61P 31/04*** (2018.01); ***A61P 35/00*** (2018.01); *A01N 25/08* (2013.01); *A01N 43/78* (2013.01)

(58) **Field of Classification Search**
CPC C07D 277/16; A61P 31/04; A61P 35/00; A01N 25/08; A01N 43/78
See application file for complete search history.

(56) **References Cited**

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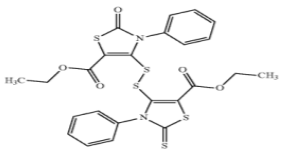
Golub et al. Science (1999), vol. 286, 531-537.*
El-Desoky et al., "Synthesis of some new thiazole derivatives of pharmaceutical interest," Sulfur Letters, vol. 26, 2003-Issue, pp. 127-135.

* cited by examiner

Primary Examiner — Rebecca L Anderson
(74) *Attorney, Agent, or Firm* — Richard C. Litman; Nath, Goldberg & Meyer

(57) **ABSTRACT**

A thiazole derivative compound includes a compound having the following structural formula:



or a pharmaceutically acceptable salt thereof.

11 Claims, 5 Drawing Sheets

4. BIOSYNTHESIS OF METAL NANOPARTICLES

US010590438B1

(12) **United States Patent**
Alharbi et al.

(10) **Patent No.: US 10,590,438 B1**
(45) **Date of Patent: Mar. 17, 2020**

(54) **BIOSYNTHESIS OF METAL NANOPARTICLES**

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

(72) Inventors: **Naiyf Sultan Helial Alaloi Alharbi**, Riyadh (SA); **Jamal Mohammed Ali Khaled**, Riyadh (SA); **Mohamed Salah El-Din Hodhod**, Riyadh (SA); **Shine Moosa Kadaikunnan**, Riyadh (SA); **Ahmed Saad Alobaidi**, Riyadh (SA)

(73) Assignee: **King Saud University**, Riyadh (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/423,532**

(22) Filed: **May 28, 2019**

(51) **Int. Cl.**

C12P 3/00	(2006.01)
A01N 59/20	(2006.01)
A01N 25/12	(2006.01)
C01G 3/10	(2006.01)
B82Y 40/00	(2011.01)

(52) **U.S. Cl.**
CPC ***C12P 3/00*** (2013.01); ***A01N 25/12*** (2013.01); ***A01N 59/20*** (2013.01); ***C01G 3/10*** (2013.01); *B82Y 40/00* (2013.01); *C01P 2002/01* (2013.01); *C01P 2002/72* (2013.01); *C01P 2002/82* (2013.01); *C01P 2002/84* (2013.01); *C01P 2004/64* (2013.01)

(58) **Field of Classification Search**
CPC A01N 59/20; A01N 25/12; C12P 3/00
See application file for complete search history.

(56) **References Cited**

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Siddiqi et al., Nanoscale Research Letters, 2016, 11:98, p. 1-15 "Fabrication of Metal Nanoparticles from Fungi and Metal Salts: Scope and Application" (Year: 2016).*
Manceau et al., "Formation of metallic copper nanoparticles at the soil-root interface," Environmental science & technology 42.5 (2008): 1766-1772.
Varshney et al., "A Review: Biological Synthesis of Silver and Copper Nanoparticles," Nano Biomedicine & Engineering, 2012, 4.2, 99-106.
Cuevas el al., "Extracellular Biosynthesis of Copper and Copper Oxide Nanoparticles by Stereum hirsuturn, a Native White-Rot Fungus from Chilean Forests," Journal of Nanomaterials, 2015, 16.1, 57.

* cited by examiner

Primary Examiner — Ruth A Davis
(74) *Attorney, Agent, or Firm* — Richard C. Litman; Nath, Goldberg & Meyer

(57) **ABSTRACT**

A method of preparing metal nanoparticles using a fungal extract includes providing an aqueous solution including a metal salt; and combining the fungal extract with the aqueous metal salt solution to produce the metal nanoparticles. The fungal extract can be an aqueous extract of the manglicolous fungi The metal salt can be copper sulfate ($CuSO_4$) and the metal nanoparticles can be copper nanoparticles. The metal nanoparticles can have a mean diameter in the range of from about 5 nm to about 100 nm. The copper nanoparticles can be used as an antimicrobial agent.

2 Claims, 5 Drawing Sheets

List of publication

- Govindan Rajivgandhi, Vimala RTV, Raju Nandhakumar, Sevanan Murugan, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Khalid F. Alanzi and Wen-Jun Li. **(2021)** Adsorption of nickel ions from electroplating effluent by graphene oxide and reduced graphene oxide. *Environmental Research*. 199:111322 **(IF: 5.715, Q_1)**

- Govindan Nadar Rajivgandhi, Chelliah Chenthis Kanisha, Sekar Vijayakumar, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Khalid F. Alanzi and Wen-Jun Li. **(2021)** Enhanced anti-biofilm activity of facile synthesized silver oxide nanoparticles against *K. pneumoniae*. *Journal of inorganic and organometallic polymers and materials*. DOI: 10.1007/s10904-021-02013-1**(IF: 1.941, Q_2)**

- Govindan Nadar Rajivgandhi, Govindan Ramachandran, Chelliah ChenthisKanisha, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Khalid F.Alanzi and Wen-Jun Li. **(2021)** Effect of Ti and Cu doping on the structural, optical, morphological and anti-bacterial properties of nickel ferrite nanoparticles. *Results in Physics*. 23:104065 **(IF: 4.019, Q_2)**

- Govindan Nadar Rajivgandhi, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Chelliah Chenthis Kanisha, Govindan Ramachandran, Natesan Manoharan and Khalid F. Alanzi. **(2021)** Identification of carbapenems resistant genes on biofilm forming *K. pneumoniae* from urinary tract infection. *Saudi Journal of Biological Sciences*.28:1750-1756. **(IF: 2.802, Q_2)**

- Felix Lewis Oscar, Chari Nithya, Sasikumar Vismaya, Manivel Arunkumar, Arivalagan Pugazhendhi, Phuong Nguyen-Tri, Sulaiman Ali Alharbi, **Naiyf S. Alharbi** and Nooruddin Thajuddin. **(2021)** *In vitro* analysis of green fabricated silver nanoparticles (AgNPs) against *Pseudomonas aeruginosa* PA14 biofilm formation, their application on urinary catheter. *Progress in Organic Coatings*. 151: 106058. **(IF: 4.469, Q_1)**

- Dongyang Ma, Chenthis Kanisha Chelliah, **Naiyf S. Alharbi**, Shine Kadaikunna, Jamal M. Khaled, Khalid F. Alanzi, Natesan Manoharan and Govindan Rajivgandhi **(2020)** *Chrysanthemum morifolium* extract mediated Ag NPs improved the cytotoxicity effect in A549 lung cancer cells. *Journal of King Saud University – Science*. 33:101269 **(IF: 2.802, Q_2)**

- Jamal M. Khaled, Sami A. Alyahya, C. Chenthis Kanisha, **Naiyf S. Alharbi**, Shine Kadaikunnan, G. Ramachandran, Khalid F. Alanzi, G. Rajivgandhi, RTV Vimala, N. Manoharan. **(2021)** Anti-biofilm activity of LC-MS based

Solanum nigrum essential oils against multi drug resistant biofilm forming *P. mirabilis*. *Saudi Journal of Biological Sciences.* 28:302-309 **(IF: 2.802, Q_2)**

- Govindan Rajivgandhi, Antony Stalin, Chelliah Chenthis Kanisha, Govindan Ramachandran, Natesan Manoharan, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Khalid F. Alanzi and Wen Jun-Li **(2021)** Physiochemical characterization and anti-carbapenemase activity of chitosan nanoparticles loaded *Aegle marmelos* essential oil against *K. pneumoniae* through DNA fragmentation assay. *Surfaces and Interfaces*. 23: 100932. **(IF: 3.724, Q_1)**
- Rajamanickam Mohanraj, Balasubramanian Mythili Gnanamangai, Govindan Nadar Rajivgandhi, Wen-Jun Li, Giri Rajan Vijayalakshmi, Ponnusamy Ponmurugan, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Khalid F. Alanzi **(2021)** Monitoring the decolourisation efficacy of advanced membrane fabricated phytosilica nanoparticles in textile effluent water treatment. *Chemosphere*. 273:129681**(IF: 5.778, Q_1)**

- Taghreed N. Almanaa, **Naiyf S. Alharbi**, Govindan Ramachandran, Chenthis Kanisha Chelliah, Govindan Rajivgandhi, Natesan Manoharan, Shine Kadaikunnan, Jamal M. Khaled and Khalid F. Alanzi. **(2021)** Anti-biofilm effect of Nerium oleander essential oils against biofilm forming *P. aeruginosa* on urinary tract infections. *Journal of King Saud University – Science*, 2020. 33: 101340 **(IF:2.835, Q_2)**

- Chinnasamy Balalakshmi, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Khalid F. Alanzi, Kasi Gopinath, Ayyakannu Arumugam, and Marimuthu Govindarajan. **(2020)** Development of chitosan/agar-silver nanoparticles-coated paper for antibacterial application**.** *Green Processing and Synthesis*. 9: 751–759 **(IF:1.672, Q_3)**

- Govindan Nadar Rajivgandhi, Govindan Ramachandran, C. Chenthis Kanisha, Jia-Ling Li, Lingzi Yin, Natesan Manoharan, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled and Wen-Jun Li. **(2020)** Anti-biofilm compound of 1, 4-diaza-2, 5-dioxo-3-isobutyl bicyclo[4.3.0]nonane from marine *Nocardiopsis* sp. DMS 2 (MH900226) against biofilm forming *K. pneumoniae*. *Journal of King Saud University – Science*. 32: 3495-3502 **(IF:2.835, Q_2)**

- Govindan Nadar Rajivgandhi, Govindan Ramachandran, Jia-Ling Li, Lingzi Yin, Natesan Manoharan, Moorthy Rajesh Kannan, Arockiam Antony Joseph Velanganni, **Naiyf S. Alharbi**, Shine Kadaikunnan, Jamal M. Khaled and Wen Jun Li. **(2020)** Molecular identification and structural detection of anti-cancer compound from marine *Streptomyces akiyoshiensis* GRG 6 (KY457710) against MCF-7 breast cancer cells. *Journal of King Saud University – Science*. 32:3463-3469 **(IF:2.835, Q_2)**

- **Naiyf S. Alharbi**, Sami A. Alyahya, Govindan Ramachandran, Chenthis Kanisha Chelliah, Shine Kadaikunnan, Jamal M. Khaled, Khaled F Alanzi, Govindan Rajivgandhi and Natesan Manoharan. **(2020)** Screening of anti-oxidant and anti-bacterial metabolites from brown algae *Turbinaria ornata* for inhibits the multi-drug resistant *P. aeruginosa*. *Journal of King Saud University – Science*. 32: 3447-3453 **(IF:2.835, Q_2)**

- Govindan Nadar Rajivgandhi, GovindanRamachandran, **Naiyf S Alharbi**, Shine Kadaikunnan, Jamal M. Khaled, Natesan Manokaran and Wen-Jun Li. **(2021)** Substantial effect of Cr doping on the antimicrobial activity of ZnO nanoparticles prepared by ultrasonication process. *Materials Science and Engineering B.* 263-114817 **(IF: 4.706, Q_1)**

- **Naiyf S. Alharbi**. **(2020)** *Escherichia coli* in Saudi Arabia: An Overview of Antibiotic-Resistant Strains. *Biosciences Biotechnology Research Asia.*17(3):443-457

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