

CURRICULUM VITAE

NAME: Sharif Arar, **PhD**

PRESENT POSITION

AND ADDRESS: **Professor (tenured)** in chemistry-Bioanalysis/Analytical Chemistry, Department of Chemistry
School of Science
The University of Jordan-Amman Branch
Queen Rania Street, Amman, 111942, Jordan
Phone: +962-796142835; E-mail: s.arar@ju.edu.jo
Website:
https://science.ju.edu.jo/departments/school_deptstaff.aspx?deptname+=chemistry

BIOGRAPHICAL: Home Address: Amman, Jordan

Cell Phone: +962-796142835

Home Phone: +962-796142835

Office Phone: +962-6-5355000 Ext-22150

EDUCATION:

2009- 2010 Post Doctoral Training: Glycoconjugate vaccines, University of Guelph, Guelph, ON, Canada. Mentor-Mario Monteiro

2004-2009: Ph.D in chemistry/ Complex carbohydrates: Structures and conjugate vaccine development, University of Guelph, Guelph, ON. Canada. Mentor-Prof. Mario Monteiro

1995-1998: M.Sc. Chemistry, The University of Jordan- Amman -Jordan. Mentor-Prof. Mohammed Khair Hourani

1991-1995: B.S. Chemistry, The University of Jordan- Amman -Jordan

PROFESSIONAL WORK HISTORY AND TEACHING EXPERIENCE:

2022-2023: Fulbright visiting scholar at University of Texas Medical Branch (UTMB)/ Amyloidosis and Tau Oligomeric Strains in Alzheimer's Disease (AD)

2020-Present: **Professor (tenured)**, Department of Chemistry, The University of Jordan

2016-2020: Associate Professor (tenured), Department of Chemistry, The University of Jordan

2014-2016: Assistant Professor (tenure track), Department of Chemistry, The University of Jordan

2010-2014: Lecturer/ Assistant professor, Department of Chemistry, The University of Jordan

2006-2008: R&D chemist (micronutrients technology), NutriAg, Toronto, ON, Canada

2004: Chemist, SGS, Lakefield, ON, Canada

1999-2004: Chemical researcher/Laboratory manager, Royal Scientific Society (RSS)- Environmental division, Amman-Jordan

1995-1998: Teaching assistant, Department of Chemistry, The University of Jordan

RESEARCH ACTIVITIES:

Area of Research

Bioanalysis, protein misfolding, aggregation and toxicity of proteinaceous deposits in protein misfolding diseases, mainly tauopathies and amyloidosis. carbohydrate research and related bacterial diseases employing analytical chemistry, biophysical, and biochemical methods. In addition to miscellaneous applications of analytical chemistry in different fields.

Grant Support

Current

2457/	(Arar)	10/21/2021 –10/21/2024	36 mths	\$6900
-------	--------	------------------------	---------	--------

Deanship of Scientific Research at the University of Jordan

Pollution levels of organochlorine pesticides residues in sediments and water of Kafrein and Shuieb dams

Completed- (Last 5 years)

(Arar)	2013 –2016	36 mths	\$14000
--------	------------	---------	---------

Deanship of Scientific Research at the University of Jordan

Mutagenic and carcinogenic Bisphenol A (BPA) concentration in canned food from discount supermarkets or outlet stores

(Hussein/Arar)	2017 –2019	24 mths	\$24000
----------------	------------	---------	---------

Particulate mass (PM) concentrations of fine and coarse aerosols in the Urban background atmosphere of Amman“ 2017-2019.

COMMITTEE RESPONSIBILITIES:

The University of Jordan/ Department of Chemistry

2022: Member: Proficiency Examination Committee for Ph.D students

2021: Member: Proficiency Examination Committee for Ph.D students

2019: Member: Proficiency Examination Committee for Ph.D students

2019: Chair: Committee supervising the transfer of the instrumental analysis laboratory to the new chemistry building

2019: Member: Quality and Development Committee in the Chemistry Department for ABET

2019: Member: Tender Committees

2019: Member: Postgraduate Studies Committees - Study research plans and proposals for postgraduate students

- 2018: Member: Proficiency Examination Committee for Ph.D students
- 2018: Member: Quality and Development Committee in the Chemistry Department for ABET
- 2018: Member: Committee for receiving and approving grades for the Chemistry Department
- 2018: Member: Postgraduate Studies Committees - Study research plans and proposals for
Member: postgraduate students
- 2018: Member: Seminars committee
- 2017: Member: Postgraduate Studies Committees - Study research plans and proposals for
postgraduate students
- 2017: Member: Study plan committee
- 2017: Member: Scientific Research Committee
- 2017: Member: Tender Committees
- 2016: Member: Quality and Development Committee in the Chemistry Department-ABET
- 2016: Member: Department of Chemistry instruments committee
- 2015: Member: Study plan committee
- 2014: Chair: technical committee for studying the received offers
- 2013: Member: technical committee for studying the received offers for GPC-HPLC system
- 2012: Chair: Technical committee for studying tender offers for installation and maintaining
of scientific instruments at School of Science
- 2012: Member: Postgraduate Studies Committees - Study research plans and proposals for
postgraduate students
- 2010 Public Safety Committee

Scientific Conferences

- 2017 4th European Chemistry congress-Abstract
- 2017 International Conference of chemistry and Biosciences ICCB 2017&
The 15th Jordanian Chemical Conference
- 2012 International Conference of Young Chemists 5ICYC. Amman – Jordan
- 2010 EuAsC2S Chemistry Care-11th Eurasia Conference on Chemical Sciences-The
Dead Sea – Jordan
- 2007 GLUPOR7/Portugal

TEACHING/MENTORING RESPONSIBILITIES

TEACHING/MENTORING RESPONSIBILITIES AT The University of Jordan:

Teaching:

School of Science/ Department of chemistry:

- 2010-Present: Teaching many courses on the undergraduate and graduate level including
General chemistry

Analytical chemistry
Electrochemistry
Electroanalytical chemistry
Special topics in analytical chemistry
Practical analytical chemistry
Chemistry Library Research - undergraduate students
Instrumental analysis laboratory
Mass spectrometry
Separation science (chromatography)
Nuclear magnetic resonance spectroscopy (NMR)
Instrumental analysis
Environmental analytical chemistry: analytical techniques, analytical toxicology.
Food analysis, and food toxicology
Spectroscopy of biomolecules- emphasis on sugars and proteins

Students/Mentees/Advisees/Trainees:

Ph.D students

2021-Present: Jafar Hashim Al-Zoubi- Chemistry Graduate program
Thesis title: Study of inositols content in some medicinal plants used for prevention and therapeutic purposes and levels of some persistent organic pollutants (POPs) for safety, efficacy and quality control purposes

M.SC students:

2021-present: Hamza Abu Sammour- Chemistry Graduate program
Thesis title: Study of Ssome Selected Endocrine Disrupting Xenobiotics in Some Commonly used Medicinal Plants and Fruits

Previous M.Sc. students

2021-2022 Supervisor: Ibrahim Jubrail AlThabteh-Chemistry Graduate Program
Thesis Title: Simultaneous gas-chromatography method development for three PDE5 inhibitors with amlodipine & atenolol in human plasma for postmortem forensic applications

2020-2022 Supervisor: Dua'a Hamza Alhiary-Science Graduate program
Thesis title: Pollution Levels of Polychlorinated Biphenyls(PCBs) residue in sediments and water of Kafrein and Shueib Damas

2017-2020 Supervisor: Reem Omair -Chemistry Graduate Program
Thesis Title: Investigation of residual levels of pesticides in different cuts and organs of beef cattle

2018-2020 Supervisor: Sawsan Said-Chemistry Graduate Program
Thesis Title: Investigation of the chemical stability of lornoxicam raw material and in pharmaceutical tablet formula.

2018-2019 Co-supervisor: Enas Hani Alqudah-Chemistry Graduate Program
Thesis Title Advance Approach for the Impurity Profiling of Vildagliptin Raw Material and Tablet

2017-2019 Supervisor: Soraya Ikbarieh-Chemistry Graduate Program
 Thesis Title: Monitoring of Some POPs (Poly-aromatic hydrocarbons and Dioxins/Furans) in the Smoke of a Charcoal Grilled Meat-Restaurant in Amman-Jordan.

2015-2016 Co-Supervisor: Hakem Alsoufi- Al-Balqa Applied University-Graduate Chemistry Program
 Thesis Title: Identification of some Synthetic Cannabinoids in Different Matrices by Chromatography-Mass Spectrometry

Trainees (The University of Jordan)-chem 391:

2022 Manar Nihad Mohamed Hammad- Research Student
 2022 Sawsan Khader Ibrahim Al-Sharif- Research Student
 2022 Marah Ayoub Saeed Al-Maayta- Research Student
 2022 Tasnim Salama Ahmed Al-Hamad- Research Student
 2022 Iman Khaldoun Suleiman Al-Arabiyyat- Research Student
 2021 Omar Abdel Qader Omar Ahmed- Research Student
 2021 Ranad Muhammad Shehdeh Al-Darwish- Research Student
 2021 Muhammad Ghalib Muhammad al-Jabour- Research Student
 2021 Ahmed Radwan Yacoub Nairoukh- Research Student
 2020 Aya Abdel Qader- Research Student

Chair/Member of Ph.D. dissertation defense Committee for:

2021 Member: Hiba Hamed AlAmyreh-Chemistry Graduate Program
 Thesis Title: The Recovery of Vanadium Pentoxide(V_2O_5) from Spent Catalyst and its Utilization in Vandium Flow Batteries

2019 Member: Rema Al-Omari-Chemistry Graduate Program
 Thesis Title: Electrochemical sensors based on aluminum silicate composite electrodes: synthesis, characterization and application

2017 Member: Mohanad Masad-Chemistry Graduate Program
 Thesis title: A comparative study of persistent organic pollutants (POPs)(chlorinitated pesticides, PCBs, and dioxins/furans) concentrations in cancer affected human organs with these of healthy organs

2017 Member: Samer Alawideh-Chemistry Graduate Program
 Thesis Title: Polychlorinated Biphenyls (PCBs) Concentration Levels in Human Gallbladder Stones and Gallbladder Tissues in Jordan

Chair/Member/External examiner of M.Sc. thesis defense Committee for:

- 2023 External examiner: Hanan Ahmad Al-Soud-Chemistry Graduate program- Tafila Technical University
Thesis Title: The Presence of Organochlorine Pesticides (OCPs) Residues in Natural Juices in the Jordanian Market
- 2019 Member: Raneem Ayman Suleiman-Chemistry Graduate Program
Thesis Title: Stability of Enalapril Maleate in Presence of Some Pharmaceuticals Excipients in Solid State
- 2019 Member: Youmn Ghalawinji- Chemistry Graduate Program
Thesis Title: Purification and biochemical characterization of polyhydroxyl alkonate (PHA) synthase enzyme from Halofrax Mediterranei: The key enzyme of biodegradable plastic synthesis
- 2019 External examiner: Dua'a Tahboub- Chemistry Graduate Program- Hashimemite University
Thesis Title: Effect of adding Schiff base on extraction of metal ions from water using magnetic adsorbents
- 2018 External examiner: Mohammad Metwally- Chemistry Graduate Program- Al-Balqa Applied University
Thesis Title: Simultaneous determination of Indapamide, Amlodipine, and Perindopril combined in Tablet dosage from using high performance liquid chromatography
- 2018 Member: Qusai Aqel- Chemistry Graduate Program
Thesis Title: Isolation, characterization, synthesis and proposing mechanisms of generating degradation products and related impurities in Lenalidomide raw material
- 2016 Member: Rasha Al-Rawajfeh-Chemistry Graduate Program
Thesis Title: Preparation of zeolite ZsM-5 and Zeolite Beta from Raw Jordanian Kaolinite by the study of their catalytic activity
- 2016 Member: Yasmin Al-yaseh-Chemistry Graduate Program
Thesis Title: Tantalum, copper, and nickel nanostructuring by application of square wave
- 2015 Member: Majd Yousef Al-Saad-Chemistry Graduate Program
Thesis Title: Evaluation of matrix effects on the analytical signal during the analysis of Atorvastatin in plasma using HPLC-MS/MS
- 2015 Member: Tamara Mahmoud Ghrear
Thesis Title: Synthesis and characterization of poly(Hexamethylene-2,6-pyridenedicarboxalate) and poly(1,4-cyclohyelen-2,6-pyridinedicarboxlate) and the study of their adsorption behavior towards Pb(II) and Cd(II) ions

2015 Member: Abbas Lateef Azeez-Chemistry Graduate Program
Thesis Title: Study of the Persistent Organic Pollutants (POPs); Polychlorinated Hydrocarbons (PAHs) and Polychlorinated Biphenyls(PCBs) in Soil Samples From Al-Ahdab Oil Field in Wasetregion, Iraq

External Review of M.Sc. thesis pre-defense completion for:

2018 Faculty of graduate studies – Al- .Balqa Applied University
2018 Faculty of graduate studies – Al- .Balqa Applied University

Promotion Review committees at the University of Jordan

2023 Member: Promotion for Professor in Analytical chemistry
2020 Member: Promotion for Associate Professor in Analytical chemistry
2019 Member: Promotion for Associate Professor in Analytical chemistry
2019 Member: Promotion for Associate Professor in Analytical chemistry

Scholarly Research Evaluator for Academic promotions (Assoc. Prof) for

2023 Qassim University -KSA
specialty of
the applicant: Analytical Chemistry
2018 Jerah University-Jordan
specialty of
the applicant: Analytical Chemistry

MEMBERSHIP IN SCIENTIFIC SOCIETIES/PROFESSIONAL ORGANIZATIONS:

2019-Present: Jordanian chemical Society

Grant Reviewer- -for:

2017: Abdul Hameed Shoman Foundation Research Support Fund

Peer-reviewed Journals Reviewer:

1. Science of the Total Environment
2. Environment International
3. Environmental Earth Sciences
4. Jordan Journal of Chemistry

PUBLISHED:

A. ARTICLES IN JOURNALS:

More than 40 peer-reviewed articles

https://scholar.google.com/citations?hl=en&user=R_GcNB4AAAAJ&view_op=list_works&sortby=pubdate

1. **Sharif Arar**, Md Anzarul Haque, Rakez Kayed. Protein aggregation and neurodegenerative disease: Structural outlook for the novel therapeutics. Proteins: Structure, Function, and Bioinformatics. Published online 08-02-2023
2. **Sharif H Arar**, Sarya G Ikbarieh, Mahmoud A Alawi. Monitoring of Polychlorinated Dibenzo-p-Dioxins/Furans (PCDDs/Fs) in smoke released from chimneys of charcoal grilled meat-restaurants in Amman-Jordan. International Journal of Environmental Analytical Chemistry. Online 2022
3. Tareq Hussein, Xinyang Li, Zaid Bakri, Andres Alastuey, **Sharif Arar**, Afnan Al-Hunaiti, Mar Viana, Tuukka Petäjä. Organic and Elemental Carbon in the Urban Background in an Eastern Mediterranean City. Atmosphere. 2022, 13(2), 197
4. **Sharif H Arar**, Sarya G Ikbarieh, Mohammed H Kailani, Mahmoud A Alawi. Monitoring of polycyclic aromatic hydrocarbons (PAHs) in smoke of charcoal grilled meat-restaurants in Amman, Jordan. Toxin Reviews. 2022, VOL. 41, NO. 1, 290–297
5. **Sharif Arar**, Mahmoud A Alawi, Nisreen E Al-Mikhi. Levels of PCDDs/PCDFs in waste incineration ash of some Jordanian hospitals using GC/MS. Toxin Reviews. 2021,40(4), 1308-1317
6. Ali Alnawaiseh, **Sharif Arar**, Mahmoud A Alawi. Health risk assessment of residual traces of organochlorine pesticides (Ocps) in infusions from different tea bags brands in Jordanian market: GC/ECD with GC-EI/MS confirmation. Fresenius Environ Bull. 2021,30(3), 2989-2997.
7. Ali Alnawaiseh, **Sharif Arar**, Mohammed Kailani, Mahmoud Alawi. MONITORING OF HEAVY METAL POLLUTION IN SEDIMENT SAMPLES FROM SELECTED JORDANIAN DAMS. Fresenius Environmental Bulletin. 2020, 29(12A), 11753-11760
8. Tareq Hussein, Xinyang Li, Qusay Al-Dulaimi, Shatha Daour, Nahid Atashi, Mar Viana, Andres Alastuey, Larisa Sogacheva, **Sharif Arar**, Afnan Al-Hunaiti, Tuukka Petäjä. Particulate matter concentrations in a middle eastern city—an insight to sand and dust storm episodes. Aerosol and Air Quality Research. 2020,20, 2780–2792
9. Enas Al-Qudah, **Sharif Arar**, Kamal Sweidan. Forced degradation studies of vildagliptin raw material alone and in the presence of excipients using HPLC-UV analysis. Journal of Excipients & Food Chemicals. 2020, 11(2),p29-41
10. Mohammed H Kailani, **Sharif Arar**, Samer Alawideh, Mahmoud Alawi. ORGANOCHLORINE PESTICIDES (OCPs) CONTENT IN HUMAN GALLBLADDER STONES AND GALLBLADDER TISSUES AS AN INDICATOR FOR POLLUTION. Fresenius Environmental Bulletin. 2020, 29(8), 7041-7064
11. **Sharif Arar**, Enas Al-Qudah, Muhammad Alzweiri, Kamal Sweidan. New forced degradation products of vildagliptin: Identification and structural elucidation using LC-MS, with proposed formation mechanisms. Journal of Liquid Chromatography & Related Technologies. 2020,43(15-16), 633-644

12. **Sharif Arar**, Samer Awaideh, Mohammed H Kailani, Mahmoud Alawi. ETERMINATION OF IOXINS/FURANS IN HUMAN GALLBLADDER STONES AND GALLBLADDER TISSUES AS INDICATOR FOR ENVIRONMENTAL CONTAMINATIONS. FRESENIUS ENVIRONMENTAL BULLETIN. 2020, 29(04A), 3056-3071
13. **Sharif Arar**, Mohammad Kailani, Mahmoud Alawi, Ali Alnawaiseh. A snapshot of Polychlorinated Biphenyls (PCBs) Poluution in Sediement Samples From Selected Jordanian Dams. Fresenius Environmental Bulletin. 2020, 29(1), 463-472
14. **Sharif Husni Arar**, Hakem ALSoufi, Eyad Abu-Nameh, Ahmad Deeb, Ayman Habahbeh. Screening of (Aminoalkylindols) Cannabinoids in smoking products by GC-EI/MS in Jordan: Liquid-liquid extraction optimization. Egyptian Journal of Chemistry. 2019, 63 (2), 373-383
15. **Sharif Arar**, Mahmoud Alawi, Mohammed Kailani, Samer Alawideh. Polychlorinated Biphenyls (PCBs) Concentration Levels in Human Gallbladder Stones and Gallbladder Tissues in Jordan. International Journal of Environmental Research. 2019, 13, 961-976
16. **Sharif Arar**, Afnan Al-Hunaiti, Mohanad H Masad, Androniki Maragkidou, Darren Wraith, Tareq Hussein. Elemental contamination in indoor floor dust and its correlation with PAHs, fungi, and gram+/- bacteria. International Journal of Environmental Research and Public Health. 2019, 16(19), 3552
17. **Sharif Arar**, Mahmoud Alawi, Ali Alnawaiseh, Mohanad Masad. Levels of polyaromatic hydrocarbons (PAHs) in sediment samples from selected Jordanian dams. Toxin reviews. Published online: 23 May 2019. 2021, 40(21), 325-333
18. Dhananjay Dey, Moumita Patra, Afnan Al-Hunaiti, Hare Ram Yadav, Afrah Al-mherat, **Sharif Arar**, Milan Maji, Angshuman Roy Choudhury, Bhaskar Biswas. Synthesis, structural characterization and CH activation property of a tetra-iron (III) cluster. Journal of Molecular Structure. 2019,1180, 220-226
19. **S Arar**, M Alawi. A new solvent extraction method with gas chromatography–Mass spectrometry for Bisphenol A determination in canned foods. Acta Chromatographica. 2019, 31(1), 71-78
20. Mansour A Alghamdi, Afnan Al-Hunaiti, **Sharif Arar**, Mamdouh Khoder, Ahmad S Abdelmaksoud, Hisham Al-Jeelani, Heikki Lihavainen, Antti Hyvärinen, Ibrahim I Shabbaj, Fahd M Almeahadi, Martha A Zaidan, Tareq Hussein, Lubna Dada. A predictive model for steady state ozone concentration at an urban-coastal site. International journal of environmental research and public health. 2019, 16(2), 258
21. Nader Al Bujuq, **Sharif Arar**, Raida Khalil. Synthesis and cytotoxic activity of 4-O-β-D-galactopyranosyl derivatives of phenolic acids esters. Natural product research. 2018, 32(22), 2663-2669
22. **Sharif Arar**, Kamal Sweidan, Sami Qasem. Identification and characterization of the degradation products of prasugrel hydrochloride tablets using LC-MS technique. Journal of Liquid Chromatography & Related Technologies. 2018, 41(1), 14-2023
23. Abeer A Malhis, **Sharif H Arar**, Manar K Fayyad, Hamdallah A Hodali. Amino-and thiol-modified microporous silicalite-1 and mesoporous MCM-48 materials as potential effective adsorbents for Pb (II) in polluted aquatic systems. Adsorption Science & Technology. 2018, 36(1-2), 270-286
24. Afnan Al-Hunaiti, **Sharif Arar**, Martin Täubel, Darren Wraith, Androniki Maragkidou, Anne Hyvärinen, Tareq Hussein. Floor dust bacteria and fungi and their coexistence with PAHs in Jordanian indoor environments. Science of the total environment. 2017, 601, 940-945

25. Issam Odeh, **Sharif Arar**, Afnan Al-Hunaiti, Hiyam Saaydeh, Ghada Hammad, Jonathan Duplissy, Henri Vuollekoski, Antti Korpela, Tuukka Petäjä, Markku Kulmala, Tareq Hussein. Chemical investigation and quality of urban dew collections with dust precipitates. Environmental Science and Pollution Research. 2017, 24, 12312-12318
26. Ahmad Elian, **Sharif Arar**, Manar Fayyad, Ahmad Zalloum. POTENT HORMONES IN THE AIR OF WORKPLACE IN THE PHARMA INDUSTRY: HPLC METHOD DEVELOPMENT FOR SIMULTANEOUS TRACE DETERMINATION OF CONTRACEPTIVES: ETHINYL ESTRADIOL, DROSPIRENONE, CYPROTERONE ACETATE, AND DESOGESTREL. Fresenius Environmental Bulletin. 2107, 26(3), 2283-2290
27. Androniki Maragkidou, **Sharif Arar**, Afnan Al-Hunaiti, Yuning Ma, Stuart Harrad, Omar Jaghbeir, Dina Faouri, Kaarle Hämeri, Tareq Hussein. Occupational health risk assessment and exposure to floor dust PAHs inside an educational building. Science of the total environment. 2017, 579, 1050-1056
28. Androniki Maragkidou, Yuning Ma, Omar Jaghbei, Dina Alfaouri, Stuart Harrad, Afnan Al-Hunaiti, **Sharif Arar**, Kaarle Hämeri, Tareq Hussein. PAHs in household floor dust collected in Amman, Jordan. Journal of chemical engineering & process technology. 2016, Volume 7, Issue 2, 2-6
29. Kaarle Hameri and Tareq Hussein Androniki Maragkidou, Yuning Ma, Omar Jaghbeir, Dina Faouri, Stuart Harrad, Afnan Al-Hunaiti, **Sharif Arar**. PAHs in Household Floor Dust Collected in Amman, Jordan. 4th Workplace and Indoor Aerosols Conference. 2016
30. A Maragkidou, Y Ma, O Jaghbeir, D Faouri, S Harrad, A Al-Hunaiti, **S Arar**, K Hämeri, T Hussein. Floor Dust PAHs inside University Lecture Rooms, Offices and Workshop. Environment. 2016, 340, 71-80
31. Ram ZAIBakain, Yahya Al-Degs, Amjad El-Sheikh, **Sharif Arar**. Spectrophotometric Determination of Melamine in Liquid Milk by Multivariate Second Order Calibration. Current Analytical Chemistry. 2016, 12(1), 74-84
32. **SHARIF ARAR**, RASHA ABU EID, MANAR FAYYAD. Anaerobic Cr (VI) Bioaccumulation: Application to Industrial Wastewater and Soil Matrices in Jordan. Asian Journal of Chemistry. 2015, 27(3), 1143-1146
33. **A Sharif**, A.E Rasha. Titanium dioxide content in foodstuffs from the Jordanian market: Spectrophotometric evaluation of TiO₂ nanoparticles. International Food Research Journal. 2015, 22(3), 1024-1029
34. Ehab Alshamaileh, Mohammad H Kailani, **Sharif Arar**, Aiman E Al-Rawajfeh. Corrosion inhibition of aluminium by cyclohexylamine dithiocarbamate in acidic solution. Stud. Univ. Babeş-Bolyai. Chem. 2014.59(3), 61
35. Sarah E Allison, Michael A D'Elia, **Sharif Arar**, Mario A Monteiro, Eric D Brown. Studies of the genetics, function, and kinetic mechanism of TagE, the wall teichoic acid glycosyltransferase in Bacillus subtilis 168. Journal of Biological Chemistry. 2011, 286(27), 23708-23716
36. Zuchao Ma, Lisa Bertolo, **Sharif Arar**, Mario A Monteiro. TEMPO-mediated glycoconjugation: a scheme for the controlled synthesis of polysaccharide conjugates. Carbohydrate Research. 2011, 346(2), 343-347
37. **Sharif Arar**. Complex carbohydrates: Structures and conjugate vaccine development. University of Guelph. 2009

38. **Sharif Arar**, Evgenii Vinogradov, P Lynn Shewmaker, Mario A Monteiro. A polysaccharide of *Alloiooccus otitidis*, a new pathogen of otitis media: chemical structure and synthesis of a neoglycoconjugate thereof. Carbohydrate research. 2008,343(6), 1079-1090
39. **Sharif Arar**, Kenneth H Chan, Bette A Quinn, Rudolf O Waelchli, M Anthony Hayes, Keith J Betteridge, Mario A Monteiro. Desialylation of core type 1 O-glycan in the equine embryonic capsule coincides with the immobilization of the conceptus in the uterus. Carbohydrate Research. 2007, 342(8), 1110-1115
40. M. Hourani, **S.Arar**, Atmospheric SO₂ determination by voltammetric analysis at Iodine- Coated Platinum Electrode. Electroanalysis. 1999, 11(9),637

PUBLICATIONS–SUBMITTED:

1. **Sharif Arar**, Md Anzarul Haque, Nemil Bhatt, Yingxin Zhao, and Rakez Kayed. Effect of Natural Osmolytes on Recombinant Tau Monomer: Propensity of Oligomerization and Aggregation. ACS Chemical Neuroscience. Submitted Sept, 2023

B. Abstracts:

1. Enas Alqudah, Malak Abbadi, Sawsan Alqadoomi, Ibtihal Abo Hamed, **Sharif Arar**, Kamal Sweidan. Identification and Separation of the Degradation Products of Vildagliptin Tablets and Raw Material using LC-MS and NMR, and then Exploration of the Corresponding Degradation Pathways Jordan Journal of Pharmaceutical Sciences, Volume 16, No. 2, Supplement 1, 2023

D Patents:

- 1-Novel Polysaccharide Immunogens from *Alloiooccus Otitidis* and Synthesis of a Glycoconjugate Vaccine Therof

Application Number: PCT/CA2008/001594

Patent Number: 2009033269 A1

Abstract: The application relates to *Alloiooccus otitidis* cell surface polysaccharides, compositions comprising *Alloiooccus otitidis* cell surface polysaccharides, synthesis of a glycoconjugate vaccine and includes kits, methods and uses thereof

Type: Application

Filed: September 11, 2008

Publication date: March 19, 2009

Applicant: The Regents of University of Guelph

Inventors: Mario Artur Monteiro, **Sharif Arar**, Atsushi Harimaya

I have read and take responsibility for the information in this document



 Signature

 Date

_____09-23-2023_____