



**[Dr. Samir Issa Mah'd Haj Bloukh]**

## Academic Rank

Associate Professor

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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=55947921800>

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### Affiliations:

Department of Clinical Sciences, College of Pharmacy and Health Science, Ajman University, PO Box 346 Ajman, UAE

Center of Medical and Bio-allied Health Sciences Research, Ajman University, PO Box 346, Ajman, UAE

## Qualifications

- Doctor of Philosophy in Virology and Serology (PhD), 1991, The Victoria University of Manchester, Manchester, **UK**.
- Post Graduate Diploma in Bacteriology (Dip Bact.), 1986, The Victoria University of Manchester, Manchester, **UK**.
- Doctor of Veterinary Medicine (DVM), 1977, University of Agriculture Faisalabad, **Pakistan**.

## ADDITIONAL IMPORTANT TRAINING COURSES

- Management for international public health course; Sep. 21- October 30 **1998 CDC**, Atlanta, Georgia **USA**
- Management course of 150 training hours in Institute for Public Administration, **Amman/Jordan** April 4- June 21 **1995**
- Group training course in Advanced Microbial Diseases Study at Research Institute for Microbial Diseases, **Osaka** University; September 7, 1992-July 29, **1993** (Many other training courses in London, Manchester, Iran and Yugoslavia).  
**Documents available if needed**

## Research field(s)

- Virology (HIV, Rubella, SARS Cov-2)
- Bacteriology (anti-microbials)

## Publications *(Last five years)*

**Published Papers 54 [Scopus: 42 documents, 408 Citations, h-index 13 (09.01.2023),**

**Google Scholar: 78 documents, 634 Citations, h-index 15, i10-index 22 (09.01.2023)]**

	Title	Status (Published, Accepted,...)	Month -Year	No of authors	Author	Scopus	Publisher		
1	<p><b>Khan S., Cho W.C., Jaragh-Alhadad L.A., Tarharoudi R., Bloukh S.H., Edis Z., Sari S., Falahati M., ten Hagen T.L.M., Khan R.H., Bai Q.</b> Nano-bio interaction: An overview on the biochemical binding of DNA to inorganic nanoparticles for the development of anticancer and antibacterial nano-platforms</p> <p>International Journal of Biological Macromolecules 2023, 225, pp. 544 – 556.</p> <p>DOI: 10.1016/j.ijbiomac.2022.11.110</p> <p><a href="https://doi.org/10.1016/j.ijbiomac.2022.11.110">https://doi.org/10.1016/j.ijbiomac.2022.11.110</a></p>	Published	11.1 1.20 22	11	Co-author	<b>Q1-A*-90%</b>	Elsevier		

	Review								
2	<p><b>Hasan, S.; Sulieman, H.; Babi, H.; Bloukh, S.</b> Development and Psychometric Evaluation of the Antibiotic Knowledge and Consumption Tool (AKCT). <i>Antibiotics</i> <b>2022</b>, <i>11</i>, 1744. <a href="https://doi.org/10.3390/antibiotics11121744">https://doi.org/10.3390/antibiotics11121744</a>.</p> <p><b>Research</b></p>	Published	29.1 1.20 22	4	Co-author	Q1-A-76%	MDPI		
3	<p><b>Edis, Z.; Bloukh, S.H.</b> Antimicrobial V-Shaped Copper(II) Pentaiodide: Insights to Bonding Pattern and Susceptibility. <i>Molecules</i> <b>2022</b>, <i>27</i>, 6437. <a href="https://doi.org/10.3390/molecules27196437">https://doi.org/10.3390/molecules27196437</a></p> <p><b>Research</b></p>	Published 1SR	29.9. 2022	2	Corresponding and main author	Q1-A-83%	MDPI		
4	<p><b>Suliman Khan, Majid Sharifi, Jason P. Gleghorn, Mohammad Mahdi Nejadi Babadaei, Samir Haj Bloukh, Zehra Edis, Mohammadreza Amin, Qian Bai, Timo L.M. ten Hagen, Mojtaba Falahati, William C. Cho</b></p> <p>Artificial engineering of the protein corona at bio-nano interfaces for improved cancer-targeted nanotherapy. <i>Journal of Controlled Release</i> <b>2022</b>, <i>348</i>, 127-147, <a href="https://doi.org/10.1016/j.jconrel.2022.05.055">https://doi.org/10.1016/j.jconrel.2022.05.055</a>.</p> <p>Review</p>	Published	29.5. 2022	10	Co-author	Q1-A*-97%	Elsevier		
5	<p><b>Zheng Nie, Yasaman Vahdani, William C. Cho, Samir Haj Bloukh, Zehra Edis, Setareh Haghighat, Mojtaba Falahati, Rasoul Kheradmandi, Laila Abdulmohsen Jaragh-Alhadad, Majid Sharifi</b></p> <p>5-Fluorouracil-containing inorganic iron oxide/platinum nanozymes with bimodal drug delivery and peroxidase-like activity for the treatment of breast cancer</p> <p><i>Arabian Journal of Chemistry</i> <b>2022</b>, <i>15</i>(8), 103966.</p>	Published	20.5. 2022	10	Co-author	Q1-A*-91%	Elsevier		

	<a href="https://doi.org/10.1016/j.arabjc.2022.103966">https://doi.org/10.1016/j.arabjc.2022.103966</a>								
	<b>Research</b>								
6	<p><b>Zhang, W.; Cho, W.C.; Bloukh, S.H.; Edis, Z.; Du, W.; He, Y.; Hu, H.Y.; ten Hagen, T.L.M.; Falahati, M.</b> An overview on the exploring the interaction of inorganic nanoparticles with microtubules for the advancement of cancer therapeutics</p> <p>International Journal of Biological Macromolecules 2022, 212, pp. 358 – 369..</p> <p>DOI: 10.1016/j.ijbiomac.2022.05.150</p> <p><a href="https://doi.org/10.1016/j.ijbiomac.2022.05.150">https://doi.org/10.1016/j.ijbiomac.2022.05.150</a></p> <p>Review</p>	Published	1.7.2022	9	Co-author	Q1-A*-90%	Elsevier		
7	<p><b>Sharifi, M.; Cho, W.C.; Ansariesfahani, A.; Tarharoudi, R.; Malekisarvar, H.; Sari, S.; Bloukh, S.H.; Edis, Z.; Amin, M.; Gleghorn, J.P.; et al.</b></p> <p>An Updated Review on EPR-Based Solid Tumor Targeting Nanocarriers for Cancer Treatment. <i>Cancers</i> 2022, 14, 2868.</p> <p><a href="https://doi.org/10.3390/cancers14122868">https://doi.org/10.3390/cancers14122868</a></p> <p>Review</p>	Published	10.6.2022	12	Co-author	Q2-B-65%	MDPI		
8	<p><b>Edis, Z.; Bloukh, S.H.; Sara, H.A.; Azelee, N.I.W.</b> Antimicrobial Biomaterial on Sutures, Bandages and Face Masks with Potential for Infection Control. <i>Polymers</i> 2022, 14, 1932.</p> <p><a href="https://doi.org/10.3390/polym14101932">https://doi.org/10.3390/polym14101932</a></p> <p><b>Research</b></p>	Published	10.5.2022	4	Co-author	Q1-A-76%	MDPI		
9	<p><b>Desai, A.S.; Singh, A.; Edis, Z.; Haj Bloukh, S.; Shah, P.; Pandey, B.; Agrawal, N.; Bhagat, N.</b></p> <p>An In Vitro and In Vivo Study of the Efficacy and Toxicity of Plant-Extract-Derived Silver Nanoparticles. <i>J. Funct. Biomater.</i> 2022, 13, 54.</p> <p><a href="https://doi.org/10.3390/jfb13020054">https://doi.org/10.3390/jfb13020054</a></p>	Published	10.5.2022	8	Co-author	Q1-A-81%	MDPI		

	<b>Research</b>								
10	<p><b>Khan, S.; Hussain, A.; Fahimi, H.; Aliakbari, F.; Haj Bloukh, S.; Edis, Z.; Babadaei, M.M.N.; Izadi, Z.; Varnamkhasti, B.S.; Jahanshahi, F.; Lin, Y.; Xiao, H.; Khan, R.H.; Rasti, B.; Vaghar-Lahijani, G.; Linlin, H.; Derakhshankhah, H.M.; Sharifi, M.; Falahati, M.</b> A review on the therapeutic applications of aptamers and aptamer-conjugated nanoparticles in cancer, inflammatory and viral diseases</p> <p><i>Arabian Journal of Chemistry</i> <b>2022</b>, <i>15</i>, 103626.</p> <p><a href="https://doi.org/10.1016/j.arabjc.2021.103626">https://doi.org/10.1016/j.arabjc.2021.103626</a></p> <p><b>Review</b></p>	Publis hed	10.1 2.20 21	19	Co- autho r	Q1- A*	Elsevi er		
11	<p><b>Khan, S.; Hussain, A.; Attar, F.; Haj Bloukh, S.; Edis, Z.; Sharifi, M.; Balali, E.; Nemati, F.; Derakhshkhah, H.; Zeinabad, H.A.; Nabi, F.; Khan, R.H.; Xiao, H.; Tueting, L.; Linlin, H.; ten Hagen, T.L.M.; Falahati, M.</b> A review of the berberine natural polysaccharide nanostructures as potential anticancer and antibacterial agents.</p> <p><i>Biomedicine &amp; Pharmacotherapy</i> <b>2022</b>, <i>146</i>, 112531.</p> <p><a href="https://doi.org/10.1016/j.biopha.2021.112531">https://doi.org/10.1016/j.biopha.2021.112531</a></p> <p><b>Review</b></p>	Publis hed	11.1 2.20 21	17	Co- autho r	Q1- A*	Elsevi er  Adde d to		
12	<p><b>Haj Bloukh, S.; Edis, Z.; Abu Sara, H.; Alhamaidah, M.A.</b> Antimicrobial Properties of <i>Lepidium sativum</i> L. Facilitated Silver Nanoparticles. <i>Pharmaceutics</i> <b>2021</b>, <i>13</i>, 1352.</p> <p><a href="https://doi.org/10.3390/pharmaceutics13091352">https://doi.org/10.3390/pharmaceutics13091352</a>.</p> <p><b>Research</b></p> <p><b>DGSR Grant No: IRG-2018-A-PH-09</b></p>	Publis hed	27.8. 2021	4	Corre spond ing autho r	Q2	Mdpi		
13	<p><b>Jadhav, M.; Sankhe, K.; Bhandare, R.R.; Edis, Z.; Bloukh, S.H.; Khan, T.A.</b> Synthetic Strategies of Pyrimidine-Based Scaffolds as Aurora Kinase and Polo-like</p>	Publis hed	26.8. 2021	6	Corre spond ing	Q2	Mdpi		

	Kinase Inhibitors. <i>Molecules</i> <b>2021</b> , <i>26</i> , 5170. <a href="https://doi.org/10.3390/molecules26175170">https://doi.org/10.3390/molecules26175170</a> . <b>Review</b>				author				
14	<b>Khan, S.; Hussain, A.; Vahdani, Y.; Kooshki, H.; Hussein, B.M.; Haghghat, S.; Rasul, M.F.; Hidayat, H.J.; Hasan, A.; Edis, Z.; Haj Bloukh, S.; Kasravi, S.; Babadaei, M.M.N.; Sharifi, M.; Bai, Q.; Liu, J.; Hu, B.; Akhtari, K.; Falahati, M.</b> Exploring the interaction of quercetin-3-Osophoroside with SARS-CoV-2 main proteins by theoretical studies: A probable prelude to control some variants of coronavirus including Delta. <i>Arabian Journal of Chemistry</i> <b>2021</b> , <i>14</i> , 103353. <a href="https://doi.org/10.1016/j.arabjc.2021.103353">https://doi.org/10.1016/j.arabjc.2021.103353</a> . <b>Research</b>	Published	28.7.2021	19	Co-author	Q1-A*	Elsevier		
15	<b>Khan, S.; Vahdani, Y.; Hussain, A.; Haghghat, S.; Heidari, F.; Nouri, M.; Bloukh, S.H.; Edis, Z.; Babadaei, M.M.N.; Ale-Ebrahim, M.; Hasan, A.; Sharifi, M.; Bai, Q.; Hassan, M.; Falahati, M.</b> Polymeric micelles functionalized with cell penetrating peptides as potential pH-sensitive platforms in drug delivery for cancer therapy: A review. <i>Arabian Journal of Chemistry</i> <b>2021</b> , <i>14</i> , 103264. <a href="https://doi.org/10.1016/j.arabjc.2021.103264">https://doi.org/10.1016/j.arabjc.2021.103264</a> . <b>Review</b>	Published	15.6.2021	15	Co-author	Q1-A*	Elsevier		
16	<b>Edis, Z.; Bloukh, S.H.</b> Facile Synthesis of Bio-Antimicrobials with “Smart” Triiodides. <i>Molecules</i> <b>2021</b> , <i>26</i> , 3553. <a href="https://doi.org/10.3390/molecules26123553">https://doi.org/10.3390/molecules26123553</a> . <b>Research</b>	Published	10.6.2021	2	Co-author	Q2	Mdpi		
17	<b>Edis, Z.*; Raheja, R.; Bloukh, S.H.; Bhandareh, R.R.; Sara, H.A.; Reiss, G.J.</b> Antimicrobial Hexaaquacopper(II) Complexes with Novel Polyiodide Chains. <i>Polymers</i> <b>2021</b> , <i>13</i> , 1005.	Published	4.2021	6	Co-author	Q1	Mdpi		

	<a href="https://doi.org/10.3390/polym13071005">https://doi.org/10.3390/polym13071005</a> . <b>Research</b>								
18	<b>Talaei, A.J.; Zarei, N.; Hasan, A.; Haj Bloukh, S.; Edis, Z.; Gamasae, N.A.; Heidarzadeh, M.; Babadaei, M.M.N.; Shahpasand, K.; Sharifi, M.; Akhatri, K.; Khan, S.; Xue, M.; Falahati, M.</b> Fabrication of inorganic alumina particles at nanoscale by a pulsed laser ablation technique in liquid and exploring their protein binding, anticancer and antipathogenic activities. <i>Arabian Journal of Chemistry</i> <b>2021</b> , <i>14</i> , 102923. <a href="https://doi.org/10.1016/j.arabjc.2020.102923">https://doi.org/10.1016/j.arabjc.2020.102923</a> <b>Research</b>	Published	5.2021	8	Co-Author	Q1-A*	Elsevier		
19	<b>Yousefvand, P.; Mohammadi, E.; Zhuang, Y.; Haj Bloukh, S.; Edis, Z.; Gamasae, N.; Zanganeh, H.; Mansour, F.N.; Haidarzadeh, M.; Attar, F.; Babadaei, M.M.N.; Keshtali, A.B.; Shahpasand, K.; Sharifi, M.; Falahati, M.; Cai, Y.</b> Biothermodynamic, antiproliferative and antibacterial properties of synthesized copper oxide nanoparticles. <i>Journal of Molecular Liquids</i> <b>2021</b> . <b>Research</b>	Published	12-2020	14	Co-Author	Q1-A* A	Elsevier	5.065	8.1
20	<b>Khan, S.; Sharifi, M.; Haj Bloukh, S.; Edis, Z.; Rabeea, S.; Falahati, M.</b> In vivo guiding inorganic nanozymes for biosensing and therapeutic potential cancer, inflammation and microbial infection. <i>Talanta</i> <b>2020</b> . <b>Review</b>	Published	2020	6	Co-Author	Q1-A*	Elsevier	5.339	8.6

21	<b>Samir Issa Bloukh, Nageeb A. Hassan, Rand S. AlAni, Sabrina Ait Gacem.</b> Urinary Tract Infection and Antibiotic Resistance among Pregnant and Non-pregnant Females in UAE. <i>Research Journal of Pharmacy and Technology</i> <b>2021</b> , 14(1).  <b>Research</b>	Published	1-2021	4	Main author	Q2	RJPT	0.410	0.5
22	<b>Sharifi, M.; Hasan, A.; Taghizadeh, A.; Haghghat, S.; Attar, F.; Bloukh, S.H.; Edis, Z.; Xue, M.; Khan, S.; Falahati, M.</b> Rapid diagnostics of coronavirus disease 2019 in early stages using nanobiosensors: challenges and opportunities. <i>Talanta</i> <b>2020</b> .  <a href="https://doi.org/10.1016/j.talanta.2020.121704">https://doi.org/10.1016/j.talanta.2020.121704</a>  <b>Review</b>	Published	10-2020	10	Co-Author	Q1-A*	Elsevier	5.339	8.6
23	<b>Gite, A.B.; Palve, B.M.; Gaikwad, V.B.; Jain, G.H.; Pathan, H.M.; Haj Bloukh, S.; Edis, Z.*</b> A Facile Chemical Synthesis of PbTe Nanostructures at Room Temperature. <i>Nanomaterials</i> <b>2020</b> , 10, 1915.  <a href="https://www.mdpi.com/2079-4991/10/10/1915">https://www.mdpi.com/2079-4991/10/10/1915</a>  <b>Research</b>	Published	9-2020	7	Corresponding-Author	Q2	Mdpi	4.1	4.324
24	<b>Edis, Z.*; Haj Bloukh, S.</b> Facile synthesis of antimicrobial Aloe Vera-“smart” Triiodide-PVP biomaterials. <i>Biomimetics</i> <b>2020</b> , 5, 45.  <a href="https://www.mdpi.com/829482">https://www.mdpi.com/829482</a>  <a href="https://doi.org/10.3390/biomimetics5030045">https://doi.org/10.3390/biomimetics5030045</a>  <b>Research</b>	Published	9-2020	2	Main	Q3	Mdpi	2.0	3.130

25	Hussain, A.; Hasan, A.; Babadaei, M.M.N.; Haj Bloukh, S.; Edis, Z.; Rasti, B.; Sharifi, M.; Falahati, M. Application of gelatin nanoconjugates as potential internal stimuli-responsive platforms for cancer drug delivery. <i>Journal of Molecular Liquids</i> <b>2020</b> , 318, 114053. <a href="https://doi.org/10.1016/j.molliq.2020.114053">https://doi.org/10.1016/j.molliq.2020.114053</a> .  <b>Review</b>	Publi shed	8-2020	8	Co-Author	Q1-A*	Elsevier	5.065	8.1
26	Hussain, A., Hasan, A., Babadaei, M.M.N., Bloukh, S.H., Chowdhury, M.E., Sharifi, M., Haghghat, S. and Falahati, M. Targeting <b>SARS-CoV2 Spike Protein Receptor Binding Domain</b> by Therapeutic Antibodies. <i>Biomedicine &amp; Pharmacotherapy</i> <b>2020</b> , p.110559. <a href="https://doi.org/10.1016/j.biopha.2020.110559">https://doi.org/10.1016/j.biopha.2020.110559</a> <b>Review</b>	Publi shed	7-2020	8	Co-author	Q1-A	Elsevier	4.545	6.4
27	Morshed, M., Hasan, A., Sharifi, M., Babadaei, M.M.N., Bloukh, S.H., Islam, M.A., Chowdhury, E.H. and Falahati, M. Non-viral delivery systems of DNA into stem cells: promising and multifarious actions for regenerative medicine. <i>Journal of Drug Delivery Science and Technology</i> <b>2020</b> , p.101861.  <b>Review</b>	Publi shed	7-2020	8	Co-author	Q2	Elsevier	2.690	3.4
28	Haj Bloukh, S.; Edis, Z.*; Shaikh, A.A.; Pathan, H.M. A Look Behind the Scenes at COVID-19: National Strategies of Infection Control and Their Impact on Mortality. <i>Int. J. Environ. Res. Public Health</i> <b>2020</b> , 17, 5616. <a href="https://doi.org/10.3390/ijerph17155616">https://doi.org/10.3390/ijerph17155616</a>	Publi shed	6-2020	4	Corresponding-Author	Q2	Mdipi	2.849	3.0

	Research								
29	<p><b>Babadaei, M.M.N.; Hasan, A.; Haj Bloukh, S.; Edis, Z.; Sharifi, M.; Kachooei, E.; Falahati, M.</b> The expression level of angiotensin-converting enzyme 2 determine the severity of COVID-19: lung and heart tissue as targets. <i>J. Biomol. Struct. Dynam.</i> <b>2020</b>.  <a href="https://doi.org/10.1080/07391102.2020.1767211">https://doi.org/10.1080/07391102.2020.1767211</a></p> <p>Review</p>	Publi shed	6-2020	7	Co-Author	Q3	Taylor and Francis	3.220	4.5
30	<p><b>Babadaei, M.M.N.; Hasan, A.; Vahdani, Y.; Haj Bloukh, S.; Sharifi, M.; Kachooei, E.; Haghghat, S.; Falahati, M.</b> Development of remdesivir repositioning as a nucleotide analog against COVID-19 RNA dependent RNA polymerase. <i>J. Biomol. Struct. Dynam.</i> <b>2020</b>, 0, 1-9. doi: 10.1080/07391102.2020.1767210.  <a href="https://doi.org/10.1080/07391102.2020.1767210">https://doi.org/10.1080/07391102.2020.1767210</a></p> <p>Review</p>	Publi shed	5-2020	8	Co	Q3	Taylor & Francis	3.220	4.5
31	<p><b>Shaikh, V.S.; Nazeruddin, G.M.; Shaikh, Y.I.; Haj Bloukh, S.; Edis, Z.; Pathan, H.M.</b> A Recapitulation of Virology, Modes of Dissemination, Diagnosis, Treatment, and Preventive measures of COVID-19: A Review. <i>Engineered Science</i> <b>2020</b>, doi: 10.30919/es8d1009.</p> <p>Review</p>	Publi shed	5-2020	6	Co-Author	Not Scopus			
32	<p><b>Edis, Z.*; Haj Bloukh, S.; Ibrahim, M.R.; Abu Sara, H.</b> "Smart" antimicrobial nanocomplexes with potential to decrease surgical site infections (SSI). <i>Pharmaceutics</i> <b>2020</b>,</p>	Publi shed	4-2020	4	Main	Q2	Mdpi	4.421	2.9

	12(4), 361. <a href="https://doi.org/10.3390/pharmaceutics12040361">10.3390/pharmaceutics12040361</a> <a href="https://doi.org/10.3390/pharmaceutics12040361">https://doi.org/10.3390/pharmaceutics12040361</a> <b>Research</b>								
33	<b>Zehra Edis*, Samir Haj Bloukh, Waseemul Islam, Sabreena Ait Gacem.</b> Hsp90 as Drug Target Against Bacterial and Fungal Infections <i>Current Chemical Biology</i> <b>2020</b> , 14, 1-16. doi: <a href="https://doi.org/10.2174/2212796814666200309113100">10.2174/2212796814666200309113100</a> <a href="https://www.eurekaselect.com/180029/article">https://www.eurekaselect.com/180029/article</a> <b>Review</b>	Published	3-2020	4	Corresponding-Author	Q3	Bentham Science	0.940	1.2
34	<b>Haj Bloukh, S.; Edis, Z.*</b> Structure and Antimicrobial properties of bis(1,4,7,10-tetraoxacyclododecane-κ4O,O',O'',O''')cesium penta iodide, C <sub>16</sub> H <sub>32</sub> CsI <sub>5</sub> O <sub>8</sub> . <i>Zeitschrift für Kristallographie - New Crystal Structures</i> <b>2020</b> , 235(3), 759-761, doi:10.1515/ncrs-2020-0057. doi: <a href="https://doi.org/10.1515/ncrs-2020-0057">https://doi.org/10.1515/ncrs-2020-0057</a> . <b>Research</b>	Published	2-2020	2	Corresponding-Author	Q4	DeGruyter	0.299	0.5
35	<b>Haj Bloukh, S.; Edis, Z.*</b> Halogen bonding in Crystal structure of bis(1,4,7,10-tetraoxacyclododecane-κ4O,O',O'',O''')cesium triiodide, C <sub>16</sub> H <sub>32</sub> CsI <sub>3</sub> O <sub>8</sub> . <i>Zeitschrift für Kristallographie - New Crystal Structures</i> <b>2020</b> , 235(3), 717-719.	Published	2-2020	2	Corresponding-Author	Q4	DeGruyter	0.299	0.5

	doi: <a href="https://doi.org/10.1515/ncrs-2019-0915">https://doi.org/10.1515/ncrs-2019-0915</a> .  <b>Research</b>								
36	<b>Muaed Jamal Alomar, Samir Bloukh, Duaa Akram Eid,</b> Dietary Supplement Use, Adverse Events and Related Health Effects among Population of UAE: A Cross-Sectional Study. <i>Research J. Pharm. and Tech.</i> <b>2019</b> , 12(11): November.	Published	11-2019	3	Co-author	Q2	RJPT	0.410	0.5
37	<b>Edis, Z.*; Haj Bloukh, S.; Abu Sara, H.; Bhakhoa, H.; Rhyman, L.; Ramasami, P.</b> “Smart” triiodide compounds: Does halogen bonding influence antimicrobial activities? <i>Pathogens</i> <b>2019</b> , 8, 182–202, doi:10.3390/pathogens8040182.  <a href="https://doi.org/10.3390/pathogens8040182">10.3390/pathogens8040182</a> .  <a href="https://doi.org/10.3390/pathogens8040182">https://doi.org/10.3390/pathogens8040182</a>  <b>Research</b>	Published	2019	6	Main and corresponding author	Q2	Mdpi	3.018	3.1
38	<b>Reda, M.; Ashames, A.; Edis, Z.; Bloukh, S.; Bhandare, R.; Abu Sara, H.</b> Green Synthesis of Potent Antimicrobial Silver Nanoparticles Using Different Plant Extracts and Their Mixtures. <i>Processes</i> <b>2019</b> , 7, 510, doi:10.3390/pr7080510. doi:10.3390/pr7080510  <a href="https://doi.org/10.3390/pr7080510">10.3390/pr7080510</a>  <a href="https://doi.org/10.3390/pr7080510">https://doi.org/10.3390/pr7080510</a>  <b>Research</b>	Published	2019	6	Co-author	Q3	Mdpi	2.753	1.8
39	<b>Samir Issa Bloukh, Zehra Edis, Mohammad Waseemul Islam, Sabrina Ait Gacem*, Latifa Saeed, Amna Sultan,</b> ASSESSMENT OF DEPRESSION STATUS AMONG	Published	2019	6	Co-author				

	ADOLESCENTS AND ADULTS IN UAE, <i>Int. Res. J. Pharm.</i> <b>2019</b> , 10(5).  <b>Research</b>								
40	<b>M. W. Islam 1*, N. A, Hassan 2, S. H. Bloukh 1, M. Shahwan 2 and R. R. Bhandare,</b> EXPLORING THE LITERATURE ON <i>PROSOPIS CINERARIA</i> LINN. FOR ITS THERAPEUTIC POTENTIAL AND SAFETY: A REVIEW. <i>Int. Res. J. Pharm.</i> <b>2019</b> , 10 (7). DOI: <b>10.7897/2230-8407.1007208</b>	Published	2019	5	Co-author				
41	<b>Edis, Z.*; Haj Bloukh, S.; Ashames, A.; Ibrahim, M.</b> Copper-Based Nanoparticles, Their Chemistry and Antibacterial Properties: A Review. In <i>Chemistry for a Clean and Healthy Planet</i> ; Springer International: Berlin/Heidelberg, Germany, <b>2019</b> ; pp. 401–428.  <a href="https://doi.org/10.1007/978-3-030-20283-5_24">doi: 10.1007/978-3-030-20283-5_24</a> .  <b>Review</b>	Published	2019	4	Main and corresponding author		Springer Nature International	Conference Proceedings	
42	<b>Islam, M.W.; Bloukh, S.H.; Edis, Z.; Bhandare, R.R.</b> Emerging Phytochemicals and Bioactive Compounds from a Desert Plant <i>Prosopis cineraria</i> (L.) Druce and Future Prospects. In <i>Chemistry for a Clean and Healthy Planet</i> , 1st ed.; Ramasami, P., Gupta Bhowon, M., Jhaumeer Laulloo, S., Li Kam Wah, H., Eds.; Springer Nature AG: Cham, Switzerland, <b>2019</b> ; pp. 19-51, ISBN: 978-3-030-20282-8, doi:10.1007/978-3-030-20283-5_2.  <b>Review</b>	Published	2019	4	Co-author		Springer Nature International	Conference Proceedings	
43	<b>Edis, Z.*; Haj Bloukh, S.; Qassim, S.; Al-Hariri, Y.</b> Health status and	Published	2018	4	Main and				

	knowledge of vitamin D deficiency among female pharmacy and dentistry students in Ajman, UAE. <i>Int. Res. J. Pharm.</i> <b>2018</b> , 9(8), 36-41, <a href="http://dx.doi.org/10.7897/2230-8407.098161">http://dx.doi.org/10.7897/2230-8407.098161</a> .  <b>Research</b>				corresponding author				
44	<b>Haj Bloukh, S.*; Edis, Z.; Qassim, S.; Al-Hariri, Y.</b> Vitamin D deficiency practice among female medical students in Ajman, UAE. <i>Int. Res. J. Pharm.</i> <b>2018</b> , 9(7), 53-58 <a href="http://dx.doi.org/10.7897/2230-8407.097125">http://dx.doi.org/10.7897/2230-8407.097125</a> .  <b>Research</b>	Published	2018	4	Co-author				
45	<b>Al-Ani, M.A.; Hassan, N.; Edis, Z., Bloukh, S. H.; Shahwan, M.</b> Prevalence of Self-Medication among Medical and Non-Medical Students at Ajman University. <i>European Journal of Pharmaceutical and Medical Research</i> <b>2017</b> , 4(3), p. 141-144.  <b>Research</b>	Published	2017	5	Co-author				
46	<b>Al-Ani, M.A.; Hassan, N.; Edis, Z., Bloukh, S. H.; Shahwan, M.</b> Common Health Complaint Reported by Students according to Specialization and Gender Regarding Self-Medication at Ajman University <i>European Journal of Pharmaceutical and Medical Research</i> <b>2017</b> , 4(3), p. 137-140.  <b>Research</b>	Published	2017	5	Co-author				
47	<b>Al-Ani, M.A.; Hassan, N.; Edis, Z., Bloukh, S. H.; Shahwan, M.</b> <i>Common Adverse Effects Due to Self-Medication. International Journal of</i>	Published	2016	5	Co-author				

	<p><i>Research</i>, <b>2016</b> [S.I.], v. 3, n. 04, p. 380-385.</p> <p><b>Research</b></p>								
48	<p><b>Edis, Z.*; Bloukh, S. H.</b> <i>Vitamin D Deficiency- Main Factors Affecting The Serum 25-Hydroxyvitamin D ([25(Oh)D]) Status And Treatment Options. International Journal of Research</i>, <b>2016</b> [S.I.], v. 3, n. 01, p. 197-211, jan. 2016. ISSN 2348-6848. Available at: <a href="https://edupediapublications.org/journals/index.php/IJR/article/view/3692">https://edupediapublications.org/journals/index.php/IJR/article/view/3692</a>.</p> <p><b>Review</b></p>	Published	2016	2	Main author				
49	<p><b>M. Shamsain*, M. Shahwan, S. Haj Bloukh, A. A. Moneam, W. M. Nour Eddin, A. M Gh M Taqi, A. Rahman Lafta,</b></p> <p>THE PREVALENCE AND FACTOR AFFECTING ACNE VULGARIS AMONG UNIVERSITY STUDENTS, <i>European Journal of Pharmaceutical and Medical Research</i> <b>2016</b>, 3(6), 101-107.</p>	Published	2016	7	Co-author				
50	<p><b>Yasser El-Shabrawy, Alaa Alhaboby, Nageeb Hassan, Samir Bloukh and Moayad Shahwan.</b> The Effect of Metformin on Body Weight In Polycystic Ovary Syndrome Patients. (<b>December 2014</b>). <i>International Journal of Research-Granthaalayan</i>.</p>	Published	2014	5	Co-author				
51	<p><b>Edis, Z.*; Bloukh, S.,</b> <i>Preparation, Structural and Spectroscopic Characterization of Triiodides [M(12-Crown-4)<sub>2</sub>]<sub>3</sub> with M=Na and Rb; Z. Naturforsch.</i> <b>2014</b>, 69b, 995-1002.</p> <p><b>Research</b></p>	Published	2014	2	Main author		DeGruyter	0.961	0.91
52	<p><b>Edis, Z.*; Bloukh, S.,</b> <i>Preparation, Structural and Spectroscopical Characterization of a Pentaiodide</i></p>	Published	2013	2	Main author		DeGruyter	0.961	0.91

	<i>[Rb(12-Crown-4)<sub>2</sub>]<sup>15</sup></i> ; Z. <i>Naturforsch.</i> <b>2013</b> , 68b,1340-1346.  <b>Research</b>								
<b>53</b>	<b>Samir Bloukh.</b> Clostridium Difficile Infection: An overview of the Disease and its Pathogenesis, Diagnosis, Treatment and Management. <i>Research Journal of Pharmaceutical, Biological and Chemical Sciences</i> <b>2013</b> , 4(4), 1219-1232.	Published	2013	1	Main author				
<b>54</b>	<b>MR Reichler, S Kharabsheh, P Rhodes, H Otoum, S Bloukh, MA Majid et al.</b>  <u>Increased immunogenicity of oral poliovirus vaccine administered in mass vaccination campaigns compared with the routine vaccination program in Jordan.</u> <i>The Journal of infectious diseases</i> <b>1997</b> , 175 (Supplement_1), 198-204.  (Related to Poliovirus outbreak in Jordan).	Published	1997	7	Co-author				
<b>55</b>	<b>MR Reichler, A Abbas, S Kharabsheh, A Mahafzah, JP Alexander Jr, S Bloukh et al.</b>  <u>Outbreak of paralytic poliomyelitis in a highly immunized population in Jordan.</u> <i>The Journal of infectious diseases</i> <b>1997</b> , 175 (Supplement_1), 62-70.  (Related to Poliovirus outbreak in Jordan also).	Published	1997	7	Co-author				
<b>56</b>	<b>S Kageyama, T Katsumoto, K Taniguchi, SI Ismail, T Shimmen, F Sasao et al.</b> <u>Neutralization of human immunodeficiency virus type 1 (HIV-1) with antibody from carriers' plasma against HIV-1 protein p17.</u>  <i>Acta virologica</i> <b>1994</b> , 40 (4), 195-200.  Second author of a paper presented at the 10 <sup>th</sup> International Conference of AIDS in Yokohama-Japan 1994 titled;	Published	1994	7	Co-author				

HUMAN Antibody to Matrix Protein (P17) Neutralizes HIV in Vitro								
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## Books

	Title	ISBN	Publisher
1.	<p><b>Edis, Z.*; Haj Bloukh, S.; Ashames, A.; Ibrahim, M.</b> Copper-Based Nanoparticles, Their Chemistry and Antibacterial Properties: A Review. In Chemistry for a Clean and Healthy Planet; Springer International: Berlin/Heidelberg, Germany, 2019; pp. 401–428.</p> <p><a href="https://doi.org/10.1007/978-3-030-20283-5_24">doi: 10.1007/978-3-030-20283-5_24</a>.</p> <p><b>DGSR Grant No: IRG-2018-A-PH-02</b></p>	<p>e-book ISBN: 978-3-030-20283-5</p> <p>Hardcover</p>	<p>Springer International Publishing</p> <p>Proceedings</p>
2.	<p><b>Islam, M.W.; Bloukh, S.H.; Edis, Z.; Bhandare, R.R.</b> Emerging Phytochemicals and Bioactive Compounds from a Desert Plant Prosopis cineraria (L.) Druce and Future Prospects. In Chemistry for a Clean and Healthy Planet, 1st ed.; Ramasami, P., Gupta Bhowon, M., Jhaumeer Laulloo, S., Li Kam Wah, H., Eds.; Springer Nature AG: Cham, Switzerland, 2019; pp. 19-51.</p> <p>ISBN: 978-3-030-20282-8,</p> <p>doi:10.1007/978-3-030-20283-5_2.</p>	<p>ISBN : 978-3-030-20282-8</p>	<p>Springer International Publishing</p> <p>Proceedings</p>

## Courses Taught (Last five years)

- Microbiology and Immunology (for Dentistry students) DDS 203
- Pharmaceutical Microbiology and Immunology (for Pharmacy students) Parts I and II PHA260, PHA261
- Biology (for requirements) Bio111

## Professional Experience

- 2009-2023 faculty member in the college of pharmacy and health sciences, Ajman University.
- 2000-2009, Dean, College of Pharmacy, Ajman university, UAE
- 1992-1999, Head, Diagnostic Virology and Serology Laboratory, Ministry of Health-Jordan.
- 1985-1991, studying Post graduate studies in Manchester University
- 1979-1984, Head of Diphtheria Vaccine production and Control. Jordan Vaccine Institute, Amman, Jordan.

## Committees Work

- AU International Academic Affairs Coordinators Committee, Member for the last many years
- College council member for the last many years
- College Curriculum Committee for the last many years
- College QS ranking Support Representative
- Topic Associate Editor for Frontiers in Pharmacology of Infectious Diseases “Advances in synthesis, function, and antimicrobial therapeutic applications of metal-organic frameworks”, 2022-23
- Member of Editorial Board of Journal of Toxicology, 2017-2020
- Editorial Member in American Journal of Applied Chemistry, 2017-2020
- Member of the association of the colleges of pharmacy in the Arab World, From 2001-2007
- Member of the Pharmacist association of Egypt, since 2005
- Member of National Committee for Standardization of different levels of Laboratory Services, Ministry of Health, Jordan, 1997-1999.
- Member of the National Committee of AIDS Control from 1994-1999, Ministry of Health, Jordan.
- Member of the central Committee of Virology Tenders from 1991-1999, Ministry of Health, Jordan.
- Member of the Jordan Vet. Association, Since 1978

## Honors and Awards

- Shortlisted Contributing Competitors- The Third Forum for Women in Research: QUWA: Empowering Women in Research & Innovation, Sharjah University, UAE
- Best Teacher Award 2018, college of pharmacy, Ajman University.
- 3<sup>rd</sup> International Conference on academic and industrial innovation (Innopharm2018), 22-23 October 2018, Goa, India, 2<sup>nd</sup> best oral presentation.
- ICPAC-2018 Conference, Mauritius, June 2018, won the best Poster Presentation Award
- **Research AWARDS:**
  1. **Principal-Investigator 2022-23:** Deanship of Graduate Studies and Research has approved AU Funded Research Grant AY 2022-23 (IRG) for research proposal: “Bioactivity guided fractionation and mechanistic studies on phytoconstituents from a plant of family costaceae against colorectal adenocarcinomas and their possible antimicrobial properties.” (Ref. No. 2022-IRG-PH-2). The approved budget for this research project is **AED 20,000**.
  2. **Co-Investigator 2021-22:** Deanship of Graduate Studies and Research has approved AU Funded Research Grant AY 2022-23 (IRG) for research proposal: “Secondary metabolites (SM) and metallic nanoparticles (MNP) mediated antimicrobial biomaterials with potential for infection control: AV-SM-PVP-I2 and SM-MNP” (Ref. No. 2022-IRG-PH-3). The approved budget for this research project is **AED 48,850**.
  3. **Co-Investigator 2021-22:** Deanship of Graduate Studies and Research has approved AU Funded Research Grant AY 2021-22 (IRG) for research proposal: “Antimicrobial properties of novel biopolymers [AV(PVP)<sub>n</sub>-PP]<sub>3</sub> (M=Na, AV=Aloe Vera, PVP, PP = Polyphenol) with

potential uses against Surgical Site Infections (SSI), SARS-CoV-2 and further pandemics” (Ref. No. 2021-IRG-PH-2). Approved budget for this research project is **AED 47,500**.

4. **Co-Investigator 2020-21:** College Research Committee (CRC) and College Dean, the Deanship of Graduate Studies and Research have approved an Internal Research Grant (IRG) 2019-20 for research proposal “Synthesis of novel polymeric bio synthesized nanocomposites M [AV(P)n]I3 (M=Na, AV=Aloe Vera, P = PVP) with, their antimicrobial activities on 10 pathogens, their impact on SARS-CoV-2 and further pandemics” (Ref. No. 2020-IRG-PH-10). The approved budget for this research project is **AED 44,500**.
5. **Co- Investigator 2019-20:** College Research Committee (CRC) and College Dean, the Deanship of Graduate Studies and Research have approved an Internal Research Grant (IRG) 2019-20 research “Antimicrobial activity of polyiodide complexes of sandwiched Group I crown ethers-Optimization on 12-crown-4 and Computational analysis” (Ref. No. 2019-IRG-PH-5)”. **This grant is in cooperation with the Dept. of Computational Chemistry at Mauritius University.** The approved budget for this research project is **AED 34,700**.
6. **Principal Investigator 2018-19:** Deanship of Graduate Studies and Research has approved an Internal Research Grant (IRG) 2018-19 for research proposal “Synthesis and antimicrobial activity of copper iodide Nanoparticles (NPs) within polymer matrices on *Escherichia coli*, *Streptococcus pyogenes*, *Streptococcus faecalis*, *Bacillus subtilis*, *Proteus mirabilis*, *Pseudomonas aeruginosa* and *Candida albicans*. (Ref. No. IRG-2018-A-PH-02)” The approved budget for this research project is **AED 46,988**.
7. **Principal /Co-Investigator 2018-19:** College Research Committee (CRC) and your College Dean, the Deanship of Graduate Studies and Research has approved an Internal Research Grant (IRG) 2018-19 research proposal “Antibacterial and antifungal properties of Polyiodides [M(crown ether)<sub>2</sub>]In (n=3, 5, 7) with Metaliodides MI (M= Rb, Cs and Cu) on *Escherichia coli*, *Streptococcus pyogenes*, *Streptococcus faecalis*, *Bacillus subtilis*, *Proteus mirabilis*, *Pseudomonas aeruginosa* and *Candida albicans* [Ref: IRG-2018-A-PH-01. The approved budget for this research project is **AED 45,904**.
8. **Co-Investigator 2018-19:** College Research Committee (CRC) and your College Dean, the Deanship of Graduate Studies and Research has approved an Internal Research Grant (IRG) 2018-19 for your research proposal “Comparative study of antimicrobial activity of various silver nanoparticles synthesized by different green methods [Ref: IRG-2018-A-PH-09]”. The approved budget for this research project is **AED 35,000**
9. **Co-Investigator 2017-18:** Internal Research Grant of Ajman University with the Number 2017-A-PH-04

**Research Title :** Antibacterial, antifungal activity of Polyiodides of Cupric iodide and Alkalimetaliodides MI (M=Li, Na, K) with crown ethers on *Escherichia coli*, *Streptococcus pyogenes*, *Enterococcus faecalis*, *Bacillus subtilis*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae* and *Candida albicans* mediated by DNA and membrane damage.

## Other Contributions and Achievements

### Presentations in Conferences

Year	Title	Event /location

2022	<p><b>Oral Presentation 18.10.2022</b></p> <p>“Cu(II)-pentaiodides complexed in 12-crown-4: Structure and antimicrobial properties”</p>	<p><b>AMSCA 2022</b> (Advanced Materials Synthesis, Characterization and Applications 2022), Pune-India, 18.-19.10.2022</p>
2022	<p><b>Poster Presentation-Oral 24.8.2022</b> Antimicrobial Aloe-Vera-Trans-cinnamic acid-Iodine complex for infection control on surfaces</p> <p><a href="https://doi.org/10.1021/scimeetings.2c00529">https://doi.org/10.1021/scimeetings.2c00529</a></p>	<p><b>American Chemical Society - ACS Fall 2022</b>-Sustainability in a Changing World, 21.-25.8.2022</p>
2022	<p><b>Oral Presentation 22.8.2022</b></p> <p>“Antimicrobial copper complexes with polymeric pentaiodide chains”</p> <p><a href="https://doi.org/10.1021/scimeetings.2c00528">https://doi.org/10.1021/scimeetings.2c00528</a></p>	<p><b>American Chemical Society - ACS Fall 2022</b>-Sustainability in a Changing World, 21.-25.8.2022</p>
2022	<p><b>Oral Presentation</b></p> <p>“Aloe-Vera-Sage-iodine bioformulations with antimicrobial properties: Sustainable solutions for the basic public health care”</p>	<p>“1st International Conference on Challenges in Sustainable Utilization and Management of Bioresources, IBA-SUMBio22”</p> <p>On 8-10 August 2022, held concurrently in Johor Bahru, Malaysia and Saltillo, Mexico</p>
2022	<p><b>Presentation VCCA 2022</b></p> <p>“Infection control through biomaterials on sutures, bandages and face masks”</p>	<p>Virtual Conference on Chemistry and its Applications (VCCA-2022)</p> <p>8.-12th August 2022, Mauritius.</p>
2022	<p><b>Presentation</b></p> <p>“PVP encapsulated antimicrobial plant polyphenol-AgNP-iodine biocomposites”</p> <p><a href="https://doi.org/10.1021/scimeetings.2c00058">https://doi.org/10.1021/scimeetings.2c00058</a></p>	<p><b>ACS Spring 2022, March 20-24, 2022</b></p> <p>March 22, 2022, 7:00 PM - 9:00 PM</p>

2022	<p><b>Presentation</b></p> <p>“Antimicrobial lepidium sativum-silver nanoparticle biohybrids”</p> <p><a href="https://doi.org/10.1021/scimeetings.2c00040">https://doi.org/10.1021/scimeetings.2c00040</a></p>	<p><b>ACS Spring 2022, March 20-24, 2022</b></p> <p>March 24, 2022, 12:00 PM - 2:00 PM</p>
2021 Nov	<p><b>Presentation</b></p> <p>Microbicidal plant-AgNP biocompounds with “smart” triiodides</p> <p><a href="https://sciforum.net/paper/view/11604">https://sciforum.net/paper/view/11604</a></p> <p><a href="https://doi.org/10.3390/ECMC2021-11604">https://doi.org/10.3390/ECMC2021-11604</a></p> <p>Cite as: Edis, Z.; Haj Bloukh, S.; Abu Sara, H. Microbicidal plant-AgNP biocompounds with “smart” triiodides, in Proceedings of the 7th International Electronic Conference on Medicinal Chemistry, 1–30 November 2021, MDPI: Basel, Switzerland, doi:10.3390/ECMC2021-11604</p>	<p><b>Published: 07 November 2021 by MDPI in <a href="#">7th International Electronic Conference on Medicinal Chemistry</a> session <a href="#">Round table on natural products</a></b></p>
2021 Nov	<p><b>Presentation</b></p> <p><b>Antimicrobial copper complexes with polymeric pentaiodide chains</b></p> <p><a href="https://sciforum.net/paper/view/11602">https://sciforum.net/paper/view/11602</a></p> <p><a href="https://doi.org/10.3390/ECMC2021-11602">https://doi.org/10.3390/ECMC2021-11602</a></p> <p>Cite as: Edis, Z.; Haj Bloukh, S.; Abu Sara, H.; Raheja, R.; Bandareh, R.R.; Reiss, G.J. Antimicrobial copper complexes with polymeric pentaiodide chains, in Proceedings of the 7th International Electronic Conference on Medicinal Chemistry, 1–30 November 2021, MDPI: Basel, Switzerland, doi:10.3390/ECMC2021-11602</p>	<p><b>Published: 07 November 2021 by MDPI in <a href="#">7th International Electronic Conference on Medicinal Chemistry</a> session <a href="#">Round table on natural products</a></b></p>
2021 Nov	<p><b>Presentation</b></p>	<p><b>Published: 07 November 2021 by MDPI in <a href="#">7th International Electronic Conference on Medicinal</a></b></p>

	<p><b>Bioformulations of Sage-Aloe Vera-PVP and “smart” triiodides with antimicrobial properties</b></p> <p><a href="https://sciforum.net/paper/view/11603">https://sciforum.net/paper/view/11603</a></p> <p><a href="https://doi.org/10.3390/ECMC2021-11603">https://doi.org/10.3390/ECMC2021-11603</a></p> <p>Cite as : Edis, Z.; Haj Bloukh, S.; Abu Sara, H. Bioformulations of Sage-Aloe Vera-PVP and “smart” triiodides with antimicrobial properties, in Proceedings of the 7th International Electronic Conference on Medicinal Chemistry, 1–30 November 2021, MDPI: Basel, Switzerland, doi:10.3390/ECMC2021-11603</p>	<p><u>Chemistry</u> session <u>Round table on natural products</u></p>
2021 Aug	<p>Online Presentation</p> <p>Plant polyphenols-Aloe Vera Barbadensis Miller – iodine hybrids and their antimicrobial properties with the potential to prevent surgical site infections</p> <p><a href="https://acs.digitellinc.com/acs/live/21/page/411/1?eventSearchInput=Zehra+Edis#">https://acs.digitellinc.com/acs/live/21/page/411/1?eventSearchInput=Zehra+Edis#</a></p> <p>and</p> <p><a href="https://www.morressier.com/article/iplant-polyphenols-aloe-verai-ibarbadensis-miller-iiodine-hybrids-antimicrobial-properties-potential-prevent-surgical-site-infections/612e2cebcb003360fe3a9d65">https://www.morressier.com/article/iplant-polyphenols-aloe-verai-ibarbadensis-miller-iiodine-hybrids-antimicrobial-properties-potential-prevent-surgical-site-infections/612e2cebcb003360fe3a9d65</a></p> <p><b>DGSR Grant No: 2020-IRG-PH-10</b></p>	<p>American Chemical Society - ACS Fall 2021-Resilience of Chemistry, 22.-26.8.2021</p>
2021 Aug	<p>Online Presentation</p> <p>Synthesis of polymeric biohybrids of Aloe Vera (AV)-PVP and smart Triiodides</p> <p><a href="https://web.uom.ac.mu/sites/vcca2021/loginp.asp">https://web.uom.ac.mu/sites/vcca2021/loginp.asp</a></p> <p><a href="http://sites.uom.ac.mu/vcca2021/">http://sites.uom.ac.mu/vcca2021/</a></p>	<p>Virtual Conference on Chemistry and its Applications VCCA 2021 Research and Innovations in Chemical Sciences, 9.-13.8.2021</p>

	<b>DGSR Grant No: 2020-IRG-PH-10</b>	
2021 July	Online Presentation Aloe Vera Biocomposites with smart Triiodides  <b>DGSR Grant No: 2020-IRG-PH-10</b>	International Faculty Development program  Chandigarh University, India, 5-10.7.2021
2020 Nov	Online Presentation Antimicrobial properties of <i>Lepidium satvium L.</i> based green synthesis of Silver Nanoparticles  <a href="https://sciforum.net/paper/view/conference/7263">https://sciforum.net/paper/view/conference/7263</a>  <b>DGSR Grant No: 2018-A-PH-09</b>	6th International Electronic Conference on Medicinal Chemistry, 1-30 November 2020
2020 Nov	Online Presentation Understanding Knowledge and Behaviors Related to COVID-19 Epidemic in United Arab Emirates Undergraduate Pharmacy Students: A Cross-Sectional Study  <a href="https://sciforum.net/paper/view/conference/7307">https://sciforum.net/paper/view/conference/7307</a>	6th International Electronic Conference on Medicinal Chemistry, 1-30 November 2020
2020 Nov	Online Presentation Antimicrobial properties of PVP-encapsulated <i>Aloe Vera</i> -iodine hybrids  <a href="https://sciforum.net/paper/view/conference/7275">https://sciforum.net/paper/view/conference/7275</a>  <b>DGSR Grant No: 2020-IRG-PH-10</b>	6th International Electronic Conference on Medicinal Chemistry, 1-30 November 2020
2020 Nov	Online Presentation Antimicrobial properties of PVP-encapsulated <i>Aloe Vera</i> -iodine compounds	5-6 November, 2020, Asian e-Conference on Engineered Science

	<b>DGSR Grant No: 2020-IRG-PH-10</b>	
2020 Aug	<p>Online Presentation</p> <p>“Smart” antimicrobial nanocomplexes with Trans-Cinnamic Acid</p> <p><a href="https://web.uom.ac.mu/sites/vcca2020/forum/forum_topics.asp?FID=356">https://web.uom.ac.mu/sites/vcca2020/forum/forum_topics.asp?FID=356</a></p> <p><a href="http://sites.uom.ac.mu/vcca2020/">http://sites.uom.ac.mu/vcca2020/</a></p> <p><a href="http://sites.uom.ac.mu/vcca2020/index.php/international-advisory-committee">http://sites.uom.ac.mu/vcca2020/index.php/international-advisory-committee</a></p> <p><b>DGSR Grant No: IRG-2017-A-PH-04</b></p> <p><b>DGSR Grant No: IRG-2018-A-PH-01</b></p> <p><b>DGSR Grant No: 2019-IRG-PH-5</b></p>	<p>VCCA2020-August 1-31, online, Mauritius</p> <p>Virtual Conference on Chemistry and its Applications VCCA 2020 Research and Innovations in Chemical Sciences: Paving the Way Forward, 1.-31.8.2020, Presentation</p>
2020 Jan	<p>Oral Presentation</p> <p>“Triiodides as Antimicrobial Agents in the Era of Antibiotic Resistance”</p> <p><b>DGSR Grant No: IRG-2018-A-PH-01</b></p> <p><b>DGSR Grant No: 2019-IRG-PH-5</b></p>	<p>ICARE2020- January 9-10, Nanded-India</p>
2019 May	<p>Oral Presentation</p> <p>“Copperiodide Nanoparticles and their antimicrobial activities”</p> <p><b>DGSR Grant No: IRG-2018-A-PH-02</b></p>	<p>27th International Conference on Nanomedicine and Nanomaterials</p> <p>May 27-28, 2019 Istanbul, Turkey</p> <p>Theme: Evolving the Research Trends in Nanomaterials and Nanomedicine</p>
2018 July	<p>Oral Presentation</p> <p>“Polyiodides: Structural aspects in antimicrobial activities”</p>	<p>The International Conference on Pure and Applied Chemistry (ICPAC 2018), 02-06 July 2018, Mauritius</p>

	<b>DGSR Grant No: IRG-2017-A-PH-04</b>	
2016 May	Oral Presentation "Vitamin D Deficiency and Asthma"	International Conference on Asthma, Improving Lung Health, Ajman University, 9.-10.5.2017.

## CONFERENCES/Competitions

1. **5th Annual Student Research Competition**, American University in the Emirates 11.11.2022 “Garlic-mediated biosynthesis of silver nanoparticles and their antimicrobial properties” and “Antimicrobial activities of Green Tea-Aloe Vera-biohybrids and their potential use for infection control” 2 Oral Presentations.
2. AMSCA 2022 (Advanced Materials Synthesis, Characterization and Applications 2022), Pune-India, 18.-19.10.2022, 1 Oral Presentation-online
3. **The Third Forum for Women in Research: QUWA: Empowering Women in Research & Innovation, Sharjah University, UAE, 25.8.2022-SHORTLISTED Competitor**
4. SUMBio2022, Malaysia (08.-09.09.2022), 1 Oral Presentation-online
5. VCCA2022 – Resilience and Sustainable Research through Basic Sciences, Mauritius (08.-12.-08.2022), oral presentation-online
6. **American Chemical Society - ACS Fall 2022**-Sustainability in a Changing World (21.-25.08.2022) (1 Oral and 1 poster Presentation) -online
7. **5<sup>th</sup> AU Student Research Day, 10.6.2022**, “Garlic-mediated biosynthesis of silver nanoparticles and their antimicrobial properties” and “Antimicrobial activities of Green Tea-Aloe Vera-biohybrids and their potential use for infection control” 2 Oral Presentations.
8. **American Chemical Society - ACS Spring 2022**-Bonding through Chemistry, 22.-24. March 2021, Two oral Presentations on 22.- and 24.3.2022-online
9. 7th International Electronic Conference on Medicinal Chemistry, 1-30 November 2021, three online presentations
10. Gulf HIV Expert Summit (1.-2.10.2021), CME accredited
11. **The Second Forum for Women in Research: QUWA: Empowering Women in Research & Innovation, Sharjah University, UAE, 26.8.2021**
12. **American Chemical Society - ACS Fall 2021**-Resilience of Chemistry, 22.-26. August 2021, Oral Presentation on 25.8.2021
13. Virtual Conference on Chemistry and its Applications VCCA 2021 Chemical Sciences for the new Decade, Presentation, 9.-13. August 2021
14. International Faculty Development program, Chandigarh University, India, 5.-10.7.2021, Oral Presentation
15. 6th International Electronic Conference on Medicinal Chemistry, 1-30 November 2020, three online presentations
16. Asian E Conference, online, 5-6. November 2020, Online Presentation
17. VCCA2020 (Virtual Conference on Chemistry and its Applications VCCA 2020 Research and Innovations in Chemical Sciences: Paving the Way Forward)- 1.-31. August 2020, online presentation, Mauritius
18. ICARE2020- 9.-10. January 2020, Nanded-India, Presentation
19. Organizing committee member of ICPM 2019 (Pharmacy conference in November 19-21, 2019)
20. 3<sup>rd</sup> International Conference on academic and industrial innovation (Innopharm 2018), 22-23 October 2018, Goa, India, 2<sup>nd</sup> best oral presentation.
21. Nanomet 2019, May 2019, Istanbul, Speaker and Chairperson of Sessions
22. ICPAC-2018 Conference, Mauritius, 2.-05. June 2018, won the best Poster Presentation Award
23. Duphat March 2018, Poster Presentation, Dubai , UAE
24. Organizing committee member of ICPM 2017 (Pharmacy conference in November 9-11, 2017)
25. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2017
26. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2016

27. Member of Organization Committee and Presenter in “Asthma-Improving lung health in UAE” 9.-10. May 2016 with the Title “Vitamin D Deficiency and Asthma”
28. Member of Conference organization Improving Lung Health in the UAE: 2016 Ajman University, UAE.
29. 4-Arab Pharmacists Association Conference (1-4 April, 2016). Sharm Al-Shaikh, Egypt.
30. 31<sup>st</sup> Arabmed in Europe-Fujairah Conference: “Advances in Contemporary Medicine” 16 CME Credit hours. 25-26 October 2015.
31. 6-Drug and Food Security Strategy. 27-29 January 2015. Nayef Arab University of Security Sciences. Riad, Saudi Arabia.
32. Chronic Obstructive Pulmonary Disease (COPD) 14 May 2015. Ajman University of Science and Technology AUST, College of Pharmacy and Health Sciences.
33. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2015.
34. Excellence, Quality and Accreditation in Higher Education. 5-6 March, 2014. AUST.
35. The 10<sup>th</sup> Student Scientific Conference. AUST, 26 May 2014.
36. World Asthma Day, AUST, 6 May 2014.
37. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2014.
38. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2013.
39. Self and Time Management Course on 17 February 2013. At AUST.
40. The 14<sup>th</sup> Annual Congress of the Scientific Association of the Colleges of Pharmacy in the Arab World 7-9 February, At AUST. 18 CME.
41. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2012.
42. Stem Cells, From Theory to Practice, 3-4 December 2011. At AUST.
43. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2011.
44. DUPHAT: Dubai International Pharmaceutical and Technologies Conference, March 2010.
45. Dubai International Pharmaceuticals and Technology, From 15<sup>th</sup>-17.3.2010, Dubai, UAE.
46. 1<sup>st</sup>. International Conference in Medicine, 9.2009 Nalchik, Russia.
47. Regional conference on fighting counterfeit medicines. From 15<sup>th</sup>-16<sup>th</sup> December 2009. Dubai, UAE.
48. 12<sup>th</sup> Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, From 5<sup>th</sup> to 7<sup>nd</sup> November 2008 in Aleppo – Syria.
49. Dubai, UAE. Dubai International Pharmaceuticals and Technology, From 10<sup>th</sup>-12.3.2008, Dubai, UAE.
50. 11<sup>th</sup> Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, From 7<sup>th</sup> to 9<sup>nd</sup> December 2007 in Tripolis – Libya.
51. Dubai, UAE. Dubai International Pharmaceuticals and Technology, From 10<sup>th</sup>-20-22.3.2007, Dubai, UAE.
52. 8<sup>th</sup> Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, From 20<sup>th</sup> to 22<sup>nd</sup> December 2004 in Cairo – Egypt.
53. 7<sup>th</sup> Scientific Meeting of the Association of the Colleges of Pharmacy in the Arab World & The 1<sup>st</sup> International Conference of Faculty of Pharmacy, University Saint-Joseph,. From 4<sup>th</sup> to 6<sup>th</sup> December in Beirut – LEBANON 2003.
54. 6<sup>th</sup> Scientific Congress of the Association of the Colleges Of Pharmacy in the Arab World and The 1<sup>st</sup> International Conference of the Faculty of Pharmacy and Health Sciences, Ajman University of Science and Technology, From 19-21 October 2002 in Ajman.
55. 5<sup>th</sup> Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, From 16<sup>th</sup> October to 18<sup>th</sup> October 2001 in Jordan.
56. 4<sup>th</sup> Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, From 16<sup>th</sup> November to 17<sup>th</sup> 2000 in Tunisia.
57. 10<sup>th</sup> International Conference of AIDS in Yokohama-Japan 1994, the second author of a paper on AIDS. Japan

**Training Courses Attended**

1. TLC (5 Points): Webinar “Strategize Online assessments using online resources”, 9.12.2022
2. TLC (5 Points): Training “Fuzzy-set Qualitative Comparative Analysis (fsQCA) Training Session”, 23.11.2022, Student Hub, 1. Floor
3. AU Workshop “Mental and Physical Self-Care” presented by Dr. Samir Bloukh, moderated by Dr. Zehra Edis, (7.11.2022), AU Counseling Unit
4. IT-Training: AU-Connect Webinar, 19.10.2022
5. IT-Training: “Moodle Quizzes and Online Exams Best Practices”, 12.10.2022
6. IT-Training: “Banner Features”, 5.10.2022
7. IT-Training: “Communication methods in Moodle”, 28.9.2022
8. TLC (5 Points): Webinar/Workshop from CLICKS (Center for Learning Innovations & Customized Knowledge Solutions): CLICKS “Curriculum Mapping”, 22.9.2022
9. AU Workshop “COVID-19: What you need to know” presented by Dr. Samir Bloukh, (21.4.2022), AU Counseling Unit
10. TLC (5Points) Webinar/Workshop with Academic Impressions: “Engaging All Learners with Universal Design for Learning”, 16.2.2022, 4-7 pm.
11. TLC (5 Points): Webinar/Workshop from CLICKS (Center for Learning Innovations & Customized Knowledge Solutions): “Constructing a high Quality Syllabus by Clicks” (19.1.2022, 10am-1pm).
12. IT training, AU “Online Class Attendance Automation system” - (12.1.2022, 11am-12pm) Cert
13. AU Workshop “Personal Values at new University Life” by Dr. Zehra Edis, (3.1.2022, 2:30-3:30 pm), AU Counseling Unit
14. IT training, AU “Banner Features: Track Attendance and Grade Entry” - (9.12.2021, 11am-12pm)
15. Webinar AU : “Developing a Culture of Inclusion” (7.12.2021, 2-3pm)
16. IT training, AU “Best Practices for Moodle Quizzes and Online Exams” - (6.12.2021, 10:30-11:30 am)
17. TLC (5Points) Webinar/Workshop with Academic Impressions: "Creating Agile courses" (5.12.2021, 4-7pm).
18. TLC (5Points) Webinar/Workshop with Academic Impressions: "Designing, Developing and Delivering Engaging online courses" (30.11.2021, 4-7pm).
19. TLC (5Points) Webinar/Workshop from CLICKS (Center for Learning Innovations & Customized Knowledge Solutions): “Joint Webinar with the QAA on Quality Assuring the Student Experience and Online Delivery” (29.11.2021, 12-4pm).
20. IT training, AU “Plan ahead-Academic Advising” - (23.11.2021, 10-11 am)
21. TLC (5points) Webinar/Workshop:” "Visual Thinking Strategies- Workshop" (18.11.2021, 12pm). “Developing Life-long Learning Competencies in Undergraduate Students through Visual Thinking Strategies.” The webinar features Mrs. Lynne Petersen (Academic Director, BPharm Program) and Dr. Trudi Aspden (Senior Lecturer) who are internationally recognized scholars from University of Auckland, New Zealand
22. Webinar: “Mitigation of Health Harms Climate Change” (1.11.2021)-Center of Medical and Bio-allied Sciences Research, AU
23. Saudi Vaccination Webinar (5.10.2021), 3 CPD accredited
24. Webinar: “Improving learning outcomes in the hybrid science classroom”, Speaker: Dr. Shefaly Shorey (2021 Innovation in Instruction Award winner), Assistant Professor at the National University, Singapore, shares various methods for supporting online teaching and assessments in a nursing communication course. Dr. Shorey highlights how she incorporated blended learning pedagogy and virtual reality to facilitate skills-based communication training for year one nursing undergraduates, JoVE Science Education & Innovation in Instruction Awards Winners 2021, JoVE (6.10.2021)
25. Gulf HIV Expert Summit (1.-2.10.2021), 10 CPD accredited
26. Webinar: AU Research Profiles (30 September 2021 / Thursday @ 12:30)
27. Webinar: QEDEX (29 September 2021 / Wednesday @ 1 pm)
28. Webinar: “Moving traditionally in-person science courses online”, Speaker: Dr. Claudia Jorgensen (2021 Innovation in Instruction Award winner), Associate Professor at Utah Valley University, USA,

presents how she moved traditionally in-person science courses to completely remote sessions while establishing practices that enhance student learning. You will learn how to establish engaging and interactive content, asynchronous learning, an online student community, and a learner-centric teaching environment, JoVE Science Education & Innovation in Instruction Awards Winners 2021, JoVE (29.9.2021)

29. Webinar: “Actively engaging digitally native students with social media”, Speaker: Dr. Glenn Hurst (2021 Innovation in Instruction Award winner), Associate Professor of Chemistry Education at the University of York, UK, shared how he utilised social media platforms to engage with students by creating 1-minute videos, allowing him to demonstrate critical techniques to use in the laboratory. JoVE Science Education & Innovation in Instruction Awards Winners 2021, JoVE (22.9.2021)
30. Webinar: Innovation@UAE Majlis - “How to Apply for a Patent in the UAE” hosted Dr. Bong Lee from Ministry of Economy in the United Arab Emirates, along with patent experts from UAE universities (20.9.2021)
31. IT training, AU “How to communicate with your students through Moodle” - (13.9.2021)
32. IT training, AU “Learning technologies supporting People of Determination”- (15.9.2021)
33. The Second Forum for Women in Research. QUWA: Empowering Women in Research & Innovation, Sharjah University, UAE (26.8.2021)
34. AU Workshop “Mindshift-Welcome to University” by Dr. Zehra Edis, (23.8.2021), AU Counseling Unit
35. AU Workshop presentation: “Vaccine for Coronavirus: Is it safe ?” by Dr. Samir Haj Bloukh, (7.6.2021), AU Counseling Unit
36. 4th AU Student Research Day, AU (6.6.2021)
37. **Webinar on Effectively Flipping your Course, 31.3.2021, AU, CLICKS (Center for Learning Innovations & Customized Knowledge Solutions)**
38. **Webinar: Banner Features, 22.3.2021, IT Workshop**
39. Webinar on “Drug Discovery Development and Delivery With a special focus on drug resistance, 21.3.2021
40. **Organized and attended the webinar “Computational Chemistry and its Applications in Pharmacy and Drug Development”, by Prof. Ramasami, Mauritius University, 18.3.2021**
41. **Webinar entitled “Critical Material Attributes and Critical Process Parameters: Important Pillars of Quality by Design (QbD)” by Prof. Munira Momin, 23.2.2021**
42. **Online presentation of ThermoFischer Scan electron microscope, 25.2.2021**
43. **Workshop for Student Council on COVID-19, February 4, 2020**
44. Zoom training for Academics-14.1.2021, AU
45. Webinar-How to publish and Promote Research-24.12.2020, AU
46. **Online Workshop: “Students Online Assessment; Purposes, Strategies and Tools” from November 21st to December 5th, 2020, AU, CLICKS (Center for Learning Innovations & Customized Knowledge Solutions)**
47. Workshop-Online Proctoring using Zoom-24.11.2020, AU
48. Workshop-Sedona Webinar for Faculty-24.11.2020, AU
49. Online training on Zoom Meetings-1.10.2020, AU
50. Workshop-Online training for Proctoring Exams-12.9.2020, AU
51. **Online Workshop: Effective online Teaching, Learning and Assessment 15.8.-2.9.2020, AU, CLICKS (Center for Learning Innovations & Customized Knowledge Solutions)**
52. 8th Webinar on COVID-19 | Impact of COVID-19 on Routine Immunization, Reproduction and Pregnancy Outcome - <https://covid19-8.sciforum.net>  
Speakers: Prof. Dr. Jon Øyvind Odland and Prof. Dr. Giovanni Gabutti
53. 7th Webinar on COVID-19 | Living with COVID-19: An Early Intervention Therapeutic Strategy to Control the Pandemic - <https://covid19-7.sciforum.net/>,  
by Dr. Hamid Merchant, 24.6.2020

54. State-of-the-Art Webinar on COVID-19 Research - Survey on Symptoms/Signs, Protective Measures, Level of Awareness and Perception Regarding COVID-19 Outbreak among Dentists, <https://covid19-6.sciforum.net>.  
Speakers: Prof. Dr. Guglielmo Campus and Prof. Dr. Maria Grazia Cagetti, 23.6.2020
55. Zoom training for Academics-14.1.2021, AU, IT
56. Webinar-How to publish and Promote Research-24.12.2020, AU
57. Online Workshop: **“Students Online Assessment; Purposes, Strategies and Tools”** from November 21st to December 5th, 2020, AU
58. Workshop-Online Proctoring using Zoom-24.11.2020, AU
59. Workshop-Sedona Webinar for Faculty-24.11.2020, AU
60. Online training on Zoom Meetings-1.10.2020, AU
61. Workshop-Online training for Proctoring Exams-12.9.2020, AU
62. Online Workshop: Effective online Teaching, Learning and Assessment 15.8.-2.9.2020, AU
63. “Student Assessment” organized by “CLICKS (Center for Learning Innovations & Customized Knowledge Solutions)” 15.-21.4.2020, AU-Online by blackboard sessions
64. Blackboard Collaborate Training-Online courses training by IT (11.-12.3.2020)
65. Advance feature of Turnitin (Feedback Studio), 4.3.2020
66. Learning Management System (Moodle) and Banner system- session 2- 24.2.2020
67. Learning Management System (Moodle) and Banner system- session 1- 17.2.2020
68. **Workshop presentation by me, Dr. Samir Haj Bloukh** “Corona Virus”, 9.02.2020, cooperation with Students Counseling Unit, Ajman University, Student Hub, Continuing Education center, 2.Floor.
69. Workshop by Alaa Alamiri “First Aid”, 13.01.2020, Ajman University, Student Hub, Continuing Education center, 2.Floor.
70. Workshop “Plan Ahead Session” 23.12.2019-for Student advising on System
71. Workshop “Fire safety Awareness” 10.12.2019 Ajman University, Student Hub, Continuing Education center, 2.Floor.
72. Workshop “Sedona Training” Sedona Training Session by Dr. Jonathan Woodroof, HR, 05.11.2019, Student Hub, Continuing Education center 12:30-1:30, AU
73. “Curriculum design for learning”, Professional development Workshop, 1.- 2. November 2019, two days, 09:00 am to 16:00 pm, CRC room, AU by CLICKS (Center for Learning Innovations & Customized Knowledge Solutions)
74. Seminar on Raman by Horiba, 11.03.2019, 12:30-1:45 pm, AU
75. Seminar on FE-SEM by TESCAN, 11.03.2019, 10-11:30 am, AU
76. Workshop on “Plagiarism”, 21.02.2019, AU
77. Blackboard collaborate training session, 06.02.2019, AU
78. Seminar on SEM by TESCAN, 05.02.2019, AU
79. DGSR Seminar (Pharmacy, Dentistry, Medicine), 23.10.2018, AU
80. Scantron Workshop training session organized by Dr. Zehra Edis in the Faculty of Pharmacy and Health Sciences, 24. September 2018
81. “Essential Skills for Advancing Research Output”, Professional development workshop, Ajman university, 29. September 2018
82. Update Banner System, 23. May 2018
83. Utilizing CAP for Assessment of CLOs and PLOs, 21. May 2018
84. Turnitin and IThenticate, 19. April 2018
85. Office 365 Training, March 15, 2018
86. Smart Room Training „Active learning – to inspire and learn with Barco”17. Jan 2018
87. E-Request System Training, 11. January 2018
88. Workshop on Implementing the Banner System, 10. December 2017
89. CAP Assessment, Nov 26, 2017

	<p>90. Scantron Workshop, 30. October 2017</p> <p>91. Vitalsource Bookshelf- E-Book training MOODLE workshop, September 2017</p> <p>92. The International Services Program Certification Workshop. One-day workshop on ACPE International certification organized by Ajman University at Ajman Saray Hotel, UAE and delivered in cooperation between UAE CAA and ACPE International of USA. 29th of November 2016</p> <p>93. Vitalsource Bookshelf- E-Book training MOODLE workshop held at Ajman University 21.3.2009. Ajman</p> <p>94. Training course of Quality Assurance in Biochemistry Department of Reference Laboratories of Iran from 15.11-9.12.1998. Iran</p> <p>95. Management for International Public Health from 21-9-30.10.1998 at U.S Centers for Disease Control and Prevention, Atlanta, Georgia, USA.</p> <p>96. Top management course (150 credit hours 1995) at the Institute of Public Administration. Amman-Jordan.</p> <p>97. Advanced virology course from October 1992-July 1993 on hepatitis, influenza and AIDS at The Research Institute for Microbial diseases, Osaka University, Japan.</p> <p>98. Training course in Diagnostic Laboratories Hope Hospital 21.7-31.8.1986 at Hope Hospital, Salford, U.K.</p> <p>99. Training on Tissue Culture and Poliovirus typing from 14-9-30.10.1981 at National Institute for Biological Standards and Control, London, U.K.</p> <p>100. Training on DPT Vaccine Production and Control from 7.11-15.12.1981 at Institute of Immunology, Zagreb, Yugoslavia.</p>
<b>Memberships</b>	<ol style="list-style-type: none"> <li>1. Member of Editorial Board of Journal of Toxicology</li> <li>2. Editorial Member in American Journal of Applied Chemistry</li> <li>3. Member of the association of the colleges of pharmacy in the Arab World.</li> <li>4. Member of the Jordan Vet. Association.</li> <li>5. Member of the Pharmacist association of Egypt.</li> </ol>
<b>Others</b>	<ol style="list-style-type: none"> <li>1. Member of the National Committee of AIDS Control from 1994-1999, Ministry of Health, Jordan.</li> <li>2. Member of National Committee for Standardization of different levels of Laboratory Services, Ministry of Health, Jordan.</li> <li>3. Member of the central Committee of Virology Tenders from 1991-1999, Ministry of Health, Jordan.</li> </ol>
<b>Others</b>	<ol style="list-style-type: none"> <li>1. Supervising Many Training Courses in the field of Laboratory Diagnosis of Bacterial and Viral Diseases, Ministry of Health, Jordan</li> <li>2. Delivering Many Lectures on AIDS Education for the Control of AIDS Disease, Ministry of Health, Jordan.</li> </ol>