

Curriculum Vitae

Prof. Dr. Basma Talib Jasim Mohammed Al-Sudani

Mustansiriyah University – College of Pharmacy

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-Name: Prof. Dr. Basma Talib Jasim Mohammed Al-Sudani.

-Place & Date of Birth: Baghdad, 19/01/1978.

-Marital status: Married with two children.

Place of work: College of Pharmacy/University of Al-Mustansiriya

Current job: Teaching staff member (Prof. / Doctor).

-Scientific degrees:

-Ph.D. Biochemistry/ College of Science and Technology/ School of Environment and Life Sciences- Drug design and cancer Research Centre/ University of Salford-UK/2017.

Thesis: “Novel Therapies for Cancer Treatment: Designing High Affinity and Selectivity Ligands against SIRT1 Enzyme”

-M.Sc. Biochemistry/ deep specialization: Clinical Biochemistry/ University of Baghdad, 2002.

Thesis: “Oxidative stress and Erythrocyte glutathione defense system in childhood acute lymphocytic leukemia”

-B.Sc. Chemistry/ University of Baghdad/ 1999.

-Languages well controlled:

-Arabic (mother tongue).

-English.

-Evaluation by the Quality Assurance Department for the last 6 years:

% Degree	Year
95%	2019-2020 .1
97%	2020-2021 .2
95%	2021-2022 .3
97%	2022-2023 .4
99%	2023-2024 .5
98%	2024-2025 .6

-Research Gate: https://www.researchgate.net/profile/Basma-Al-Sudani?ev=hdr_xprf

-Scopus profile: <https://www.scopus.com/authid/detail.uri?authorId=57203724074>

- H-index in Scopus: 8

- ORCID: <https://orcid.org/0000-0001-6253-3599>



-Administrative tasks: I have served as a rapporteur for the Department of Pharmacology and Toxicology since 2023.

-Experience:

-Teaching staff member:

-Assistant lecturer/College of Pharmacy/University of Al-Mustansiriya/2002-2010.

-Lecturer/College of Pharmacy/University of Al-Mustansiriya /2010-2020

- Assistant Professor/College of Pharmacy/University of Al-Mustansiriya /2020-2025

- Professor Doctor//College of Pharmacy/University of Al-Mustansiriya /2025 to date.

I have served in the following:

1. Teaching of clinical chemistry/5th stage/ theoretical part 2002-2003.
2. Teaching of clinical chemistry/5th stage/ practical part 2002-2012.
3. Teaching of biochemistry/ 3rd stage/ practical part 2004-2012.
4. Teaching of organic chemistry/ 2nd stage/ theoretical part 2003-2005.
5. Teaching of clinical chemistry/5th stage/ theoretical part 2011-2012.
6. Teaching of Medical laboratory training/5th stage/ practical and theoretical parts 2011-2012.

From 2013-2017, I joined a scholarship to Britain to study a PhD. in Biochemistry from Salford - Manchester University, and during this period I worked as a Demonstrator in Salford University, School of Environmental and Life Science, Department of Medical Biochemistry, level 2- Biochemical and Pharmaceutical skill, practical part/ 2015 and 2016.

7. Teaching clinical laboratory training/ Hospital training course/ Postgraduate (M.Sc.)/ 2018.
8. Teaching English Language/ First year undergraduate/ 2018.
9. Teaching English Language/ Second year undergraduate/ 2018.
10. Teaching Surface plasmon resonance/ Postgraduate (Ph.D.)/ 2018 to date.
11. Teaching selected topics MSc and PhD from 2019 to date.
12. Supervise **18th M.Sc.** and **7 PhD** students as shown in the table below:

Year	Thesis Title	Name of student
2020	A new Bio-Therapeutic Candidate Aptamer Towards SIRT1 Enzyme for Pancreatic Cancer Cell Lines	(MSc.) Marwah Saad Joudah
2020	Potential Effect of SIRT1 Aptamer on Human Follicular Thyroid Carcinoma Cell Line FTC236 and FTC238	(MSc.)Lamees Jamal Talib
2020	Lipid-based Vesicles drug delivery system for anticancer drug	(MSc.)Ammar Qusay Muhammed
2020	Sirtuin1 Activator (Linear BAS Aptamer) as a Therapy for Type 2 Diabetes Mellitus: <i>in vitro</i> and <i>in vivo</i> Study	(MSc.)Rusul Ahmed Tariq
2020	Toxicity and Stability of SIRT1 aptamer in breast cancer cell line	(MSc.)Salah Salim Dawood
2020	Antibacterial and Antifungal Properties of SRT1720	Afrah Jasim Muhammad (Diploma)
2022	The protective effect of small molecule SIRT1 activators (SRT1720, SRT1460) on human corneal epithelial cells (2.040 pRSV-T) against oxidative stress	Hayder Abdul-Hasan (MSc.)Jalil
2022	The Potential Effect of Metformin on the Activity of FXR and TGR5 Receptors in Pancreatic Cancer Cell Line	Walaa Mohammed (MSc.)Tawfeeq
2022	The Potential Effect of SIRT1 Activators in COVID-	(MSc.)Ali Hani Abass

	19 Associated Coagulopathy	
2022	Protective Action of SIRT1 aptamer in HaCaT Skin Cell Line	Rana Fares (MSc.)Salman
2022	Targeting The Potential Crosstalk Between Fxr And Runx2 As An Effective Treatment Of Prostate Cancer	Nour Ghalib (MSc.)Alhussainy
2022	The effect of farnesoid X Receptor agonist (INT747) and fasting-mimicking diet on metastatic castration-resistant prostate cancer cell line	Wrood Salim Al-(PhD.)Kahfajy
2023	Estimation of The Anti-inflammatory Activity of Novel Coumarin Derivative Compounds Using Activated RAW264.7 Macrophage Cell Line	Dina Sabah (MSc.)Mahdi
2023	Studying Prevention of COVID19 Virus Using COV2-RBD-1C Aptamer as ACE2-Receptor Blocker	Noor Sabah (MSc.)Hameed
2023	Knockdown of Alpha-Enolase 1 (ENO1) Protein by Gene Silencing to Inhibit Glycolytic Pathway Within HepG2 Cell Line	Shaymaa Hamed (MSc.)Salih
2023	The role of the MiR-155 as a potential marker to diagnose prostate cancer	Hiba Adil (MSc.)Kadhim
2023	Develop the stability of COVID19-RBD-1C aptamer in Serum to use as a therapeutic for Covid-19 patients	Gazwan Mohameed (MSc.)Hassan
2024	Anti-Proliferation and Migration of Breast Cancer Cell line by Down Regulation of DNA Polymerase delta1 (POLD1)	Areege Ibrahim (MSc.)Salih
2024	Potential effect of Aescin on psoriasis induced by imiquimod in male rats	Rafal Wadhah (MSc.)Taher
2024	Human Monoclonal antibody as a Selective Carrier for the Anticancer Drug Pemetrexed, Evaluation and Characterization	Faten Qais Ibraheem (PhD)
2024	New Techniques for Diagnosis Prostate Cancer Using Anti-PSA Aptamer	Duaa Mohammed (PhD.)Ghazi
2024	P38 MAP Kinase inhibitor 2-(4 Chlorophenyl)-4-(4-fluorophenyl)-5-pyridin-4-yl-1,2-dihydropyrazol-3-one as a novel anti breast cancer	Mostafa abduljabbar (MSc.)abdulkadir
2025	The Potential Modulatory Effect of Cystine Deprivation Combined with SHIP2 Silencing on Breast Cancer Cell Lines	Rua Abass Naser (PhD)
2025	Anti- Angiogenic Activity of Two Isoniazid Derivatives: Ex Vivo, In Vivo and In Vitro Study	Ragad Shaker (PhD)
2025	Evaluating SIRT1 Aptamer as Angiogenic-Targeting Agent: <i>in Vitro</i>, <i>ex Vivo</i>, and <i>inVivo</i> Study)	Noor Al-Huda Akram Yahya Al-Zarqy (PhD)
2025	<i>In Vitro</i> Evaluation of Tariquidar to Overcome Multidrug Resistance in Triple-Negative Breast Cancer Cell Line	Faten Farhan (PhD)

13. Supervise a graduation project of undergraduate students

14. A member of the Committee of examining the reliability of scientific journals/ College of Pharmacy-Mustansiriyah University/ 2018 to date.

15. Head of the Tissue Culture Unit at the College of Pharmacy-Mustansiriyah University/ 2018 to 2023.

-Training and Skills:

1. The educational rehabilitation for teachers/ Center of developing university teaching & training methods/University of Al-Mustansiriyah/2008.

2. A condensed training course in Computers for scientific promotion of university teachers/Center of computer/University of Al-Mustansiriyah/college of Education/2008.

3. Preparation course and training on Internet and Computing Core Certification (IC³) test/ Al-Rajih Institute for foreign languages/2012.
4. I have passed the Internet and Computing Core Certification (IC³) test/2012.
5. English preparation course-TOEFL/Al-Rajih Institute for foreign languages/Baghdad 2012.
6. Preparation course for the TOEFL/Center of development and continuous education/Baghdad 2012.
7. Doing literature review/2014/University of Salford-UK.
8. Training on Introduction to End Note X7/ 2013/ University of Salford-UK.
- 9- Training on Introduction to (N Vivo Lecture)/ 2014/ University of Salford-UK.
- 10- Training on Advanced skilled (N Vivo lecture)/ 2014/ University of Salford-UK.
- 11- Schrödinger work shop for structure biology to drug design/ 2014/ Manchester Royal Teaching Hospital-UK.
- 12- Single cell genomic facilities- Flow Cytometry, High Resolution Microscopy, Imaging Cytometry and the recent techniques developed in cell imaging and follow up/Workshop/2016/University of Manchester-UK.
- 13- Training on Biacore assay/ 2016/ University of Manchester-UK.
- 14- Training on Cell culture techniques/2016/ University of Salford-UK.
- 15- HPLC training/ 2016/ University of Salford-UK.
16. Hormones to diagnose diseases/ Workshop/ 2018/ The Ministry of Science and Technology/ Baghdad-Iraq/ Rank 3.
- 17- Training on doing literature review/2014/University of Salford-UK.
- 18- Work shop for molecular biology in drug design/2014/ Manchester University, UK.
- 19- Training on RNA microarray analysis/2015/ University of Kentucky of USA.
- 20- Training on pharmaceutical toxicology: Designing studies /2014/Oxford University, UK.

-Publications & Researches:

Research	year
I have <u>2 patent</u> as attached with CV	2020 & 2022
Preparation and Evaluation of Injectable Dosage Form for Pemetrexed-Monoclonal Antibody Conjugate	2025
Erastin Induces Ferroptosis and Apoptosis in MDA-MB-231 Breast Cancer Cell Line	2025
SHIP2 Silencing Enhances Erastin Cytotoxicity in MDA-MB-231 Breast Cancer Cell Line	2025
Deferoxamine-Loaded Trilayer Scaffold Containing Propolis and Sulfated Polysaccharides Promotes In Vivo Wound Healing through Angiogenesis Stimulation	2025
Vasculo-osteogenic keratin-based nanofibers containing merwinite nanoparticles and sildenafil for bone tissue regeneration	2024
Tannic acid-reinforced soy protein/oxidized tragacanth gum-based multifunctional hemostatic film for regulation of wound healing	2024
A novel antioxidant and antimicrobial food packaging based on Eudragit®/collagen electrospun nanofiber incorporated with bitter orange peel essential oil BT Al-Sudani, A Khoshkalampour, MM Kamil, MH Al-Musawi, ... LWT 193, 115730	2024

Highly porous 3D printed scaffold incorporated with graphene oxide-encapsulated merwinite and coated with IGF-1 loaded nanofibers for calvarial defect repair Journal of Polymers and the Environment	2024
Prospective effect of linkers type on the anticancer activity of pemetrexed-monoclonal antibody (atezolizumab) conjugates AMRR Faten Q. Ibraheem 1, Nidhal K. Maraie 2, Basma Talib Al-Sudani3 F1000Research 12, 1197	2024
Effect of Aescin in Psoriatic-Induced Animal Model: Immunohistochemical and Pathological Study B Talib, WH Talib Al Mustansiriyah Journal of Pharmaceutical Sciences 24 (1), 105-116	2024
Targeting POLD1 to suppress the proliferation and migration of breast cancer MDA-MB-231 cell lines by downregulation of SIRT1	2024
Investigating the Effect of EX-527 as SIRT1 Inhibitor in Breast Cancer Cell Line	2024
Antibacterial and wound healing performance of a novel electrospun nanofibers based on polymethyl-methacrylate/gelatin impregnated with different content of propolis BT Al-Sudani, E Mahmoudi, HAS Al-Naymi, MH Al-Musawi, ... Journal of Drug Delivery Science and Technology 95, 105641	2024
A novel antioxidant and antimicrobial food packaging based on Eudragit ®/collagen electrospun nanofiber incorporated with bitter orange peel essential oil B talib al sudani LWT	2024
Prospective effect of linkers type on the anticancer activity of pemetrexed-monoclonal antibody (atezolizumab) conjugates FQ Ibraheem, NK Maraie, BT Al-Sudani, AMR Raauf F1000Research 12, 1197	2024
Drug Discovery And Antiproliferative Effect Of Linear And Circular Aptamers On Colon Cancer BT Al-Sudani, AA Mohammed, LJ Talib Journal of Pharmaceutical Negative Results, 1526-1535	2023
Estimation of the Anti-inflammatory Effect of Coumarin Derivatives DS Al-saeed, BT Al-Sudani, GA Jasim Journal of Carcinogenesis 22 (1)	2023
Preventive treatment of coronavirus disease-2019 virus using coronavirus disease-2019-receptor-binding domain 1C aptamer by suppress the expression of angiotensin-converting ... NS Hameed, IS Arif, BT Al-Sudani Journal of Advanced Pharmaceutical Technology & Research 14 (3), 185-190	2023
Protective Action of SIRT1 Activator Aptamer in Human Skin Cell Line RF Salman, BT Al-Sudani, BAR Mshimesh Journal of Population Therapeutics and Clinical Pharmacology 30 (5), 342-359	2023
Role of Fasting Mimicking Diet in Farnesoid x Receptor for Suppressing Epithelial-to-Mesenchymal Transition, Cell Cycle Progression, and Viability of Prostate Cancer Cells W Salim, I sameh Arif, BT Al-sudani Iraqi Journal of Pharmaceutical Sciences (P-ISSN 1683-3597 E-ISSN 2521-3512 ...	2023
The Effect of SIRT1 activation on Cyclooxygenase enzyme activity in COVID-19 patients A Alalak, IS Arif, BT Al-Sudani HIV Nursing 23 (2), 918–921-918–921	2023

<p>The Effect of SIRT1 activation on Cyclooxygenase enzyme activity in COVID-19 patients A Alalak, IS Arif, BT Al-Sudani HIV Nursing 23 (2), 918–921-918–921</p>	2023
<p>Crosstalk between Viable Targets: RUNX2 and FXR for Effective Treatment of Prostate Cancer through Regulation of the PTEN BTAS Noor Ghalib Al-hussainy, InamSameh. Arif NeuroQuantology 20 (8)</p>	2022
<p>Cytotoxicity of Cryptochlorogenic acid against Breast cancer cell line (MCF7) isolated from Moringa oleifera Leaves Cultivated in Iraq BK Bedewi, GA Jasim, IS Abbas, BT Al-Sudani Al Mustansiriyah Journal of Pharmaceutical Sciences 22 (2), 35-43</p>	2022
<p>Modulatory Effects of Metformin on Farnesoid X receptor and Specificity Protein 1 in Human Pancreatic Cancer BxPC-3 Cells BTAS Walaa M. Tawfeeq, Inam S. Arif IJDDT 12 (4)</p>	2022
<p>SIRT1720 promotes survival of corneal epithelial cells via the P53 pathway: SIRT1720 promotes survival of corneal epithelial cells B Al-Sudani Journal of Population Therapeutics and Clinical Pharmacology 29 (03)</p>	2022
<p>Synergistic effect of obeticholic acid and fasting-mimicking on proliferative, migration, and survival signaling in prostate cancer BTA Wrood S. Al-khfajy1 , Inam Sameh Arif1 Pharmacia 69 ((2)), 579–587</p>	2022
<p>The protective effect of small molecule SIRT1 activators on human corneal epithelial cells against oxidative stress HAH Jalil Journal of Pharmaceutical Negative Results 13 (1), 80-88</p>	2022
<p>Crosstalk Between Sirt1 Activators And Nf-Kb Axis As A Therapeutic Target To Reduce Pancreatic Cancer MS Joudah, IS Arif, BT Al-Sudani Systematic Reviews in Pharmacy 12 (3), 207-212</p>	2021
<p>Identification and Isolation of lupeol and β-sitosterol from Iraqi Bauhinia variegata and determination the cytotoxic activity of the hexane extract of its leaves, stems and ... AIS Mohammed Mais, Mahdi Monther F., Talib Bassma Research Journal of Pharmacy and Technology 14 (11), 5703</p>	2021
<p>Isolation of Lupeol and Gallic acid with cytotoxic activity of two different extracts from the leaves of Iraqi Conocarpus erectus L. TA Tawfeeq, GA Jasim, AA Nasser, BT Al-Sudani Research Journal of Pharmacy and Technology 14 (7), 3495-3503</p>	2021
<p>Anti-proliferative Effect and Serum Stability of a Novel SIRT1 Aptamer in Breast Cancer Cell Line” BT Al-Sudani Walailak Journal of Science and Technology</p>	2020
<p>Aptamer Validation by Western Blot–an overview LJ Talib, BT Al-Sudani, MG Al-Abbassi Al Mustansiriyah Journal of Pharmaceutical Sciences 20 (4), 122-131</p>	2020
<p>Circular and linear: a tale of aptamer selection for the activation of SIRT1 to induce death in cancer cells B Al-Sudani, AH Ragazzon-Smith, A Aziz, R Alansari, N Ferry, ...</p>	2020

RSC advances 10 (73), 45008-45018	
Crosstalk between SIRT1 Activators and NF-κB axis as a Therapeutic Target to Reduce Pancreatic Cancer BT Al-Sudani Sys Rev Pharm 12	2020
Effect of SIRT1 Activators on Human Follicular Thyroid Cancer BTALS LAMEES JAMAL TALIB1 , MUSTAFA GHAZI AL-ABBASSI2 International Journal of Pharmaceutical Research 12 (4)	2020
EFFECT OF SMALL DNA MOLECULES AS ANTI-RAS PROTEIN ON THE BREAST CANCER CELL LINE IHE Basma Talib Al-Sudani, Suhad Faisal Hatem Al-Mugdadi Biochem. Cell. Arch., 6151-6155	2020
Efficacy of gel electrophoresis for proteins and biotechnological products – an overview. BTAS Ammar Q. Muhammed , Nidhal K. Maraie Al Mustansiriyah Journal of Pharmaceutical Sciences 20 (4)	2020
Gene Expression Analysis in MOTN-1 Cell Line after Treating with New Development Aptamer BT Al-Sudani, B Hameed, AT Alahmar blood cells 4, 5	2020
Immunocytochemistry of In vitro produced mucin from HT29-MTX cell line F Al-Saedi, AA Mohammed, BT Al-Sudani Indian Journal of Forensic Medicine & Toxicology 14 (4), 2009	2020
New Bio-Therapeutic Candidate for Pancreatic Cancer MS Joudah, BT Al-Sudani, IS Arif Indian Journal of Forensic Medicine & Toxicology 14 (1), 289-293	2020
Promising Preclinical Data to a Possible Antidiabetic Drug IJOFP RESEARCH International Journal of Pharmaceutical Research	2020
Redounding of Cuscuta chinensis Lam. on BxPC-3, HepG2, and U2OS Human Cancer Cell Lines FHAS Basma Talib Al-Sudani, Nadia H. Mohammed International journal of drug delivery technology 10 (2)	2020
SIRTUIN 1, a novel approach in the treatment of type 2 diabetes mellitus BTAS Rusul Ahmed Tariq , Inam Sameh Arif Sys Rev Pharm 11 (11), 117	2020
Study the Effect of Rubia Cordifolia Extract on Different Type of Cancer Cell Lines and different microbial BT Al-Sudani Sys Rev Pharm 11 (11), 994-1000	2020
<u>Utilization of natural stabilizer to prepare liposomal conjugate for the newly developed aptamer</u> BTAS Ammar Qusay 1, Nidhal K. Marie 2 Sys Rev Pharm 11 (7), 32-50	2020
Anticarcinogenic and antimicrobial activity effects of the ellagic acid extract SFH Al-Mugdadi, BT Al-Sudani, RA Mohsin, AJ Mjaili International Journal of Research in Pharmaceutical Sciences 10 (2), 1172-1180	2019
Correlation Between Biochemical and Immunological Alterations with Updated Therapies in Alzheimer's Disease: A Review Article SYJ Bahir Abdul Razzaq Mshimesh, Basma Talib Al-Sudani	2019

Pharmaceutical and Biosciences Journal 7 (1), 31-41	
Evaluation of oxidative stress in patients of follicular thyroid cancer and study the therapeutic effect of Resveratrol on oxidative stress in FTC-133 thyroid cancer cell line B Al-Sudani, SF Al-Mugdadi, AA Mohammed International Journal of Drug Delivery Technology 9 (03), 367-73	2019
Correlation Between Biochemical and Immunological Alterations with Updated Therapies in Alzheimer's Disease: A Review Article Pharmaceutical and Biosciences Journal BAR Mshimesh, BT Al-Sudani, SY Jasim	2019
SIRT1 activators as novel therapy for cancer MSJ Basma Talib Al-Sudani, Inam Sameh Arif Al-Mustansiriyah Journal of Pharmaceutical Sciences (AJPS) 19 (3), 28-41	2019
Beetroot juice as an alternative growth and maintenance medium for six isolates of Mycobacterium spp. JKK Ahmed A Mohammed, Suhad Faisal Hatem Al-Mugdadi, Basma Talib Al-Sudani Journal of Pharmaceutical Sciences and Research (JPSR) 10 (8), 1881-1884	2018
Novel therapies for cancer treatment: designing high affinity selective ligands against SIRT1 enzyme BT Al-Sudani PQDT-UK & Ireland	2017
Poster Abstract UK MediaCity	2015
Novel therapies for cancer treatment: designing high affinity and selectivity ligands against SIRT1 B Al-Sudani, M Krstic-Demonacos, PA Ragazzon Clinical Chemistry and Laboratory Medicine, S779	2015
The effect of Hypothyroidism on cytokines SA Muhi, SK Al-Khazraji, BT Jasim International Journal for Sciences and Technology 8 (4), 69	2013
Determination the Erythrocyte glutathione peroxidase activity and Serum selenium level in patients with breast cancer BT Jasim Tikrit Journal of Pure Science 16 (2), 4-8	2011
Oxidative stress and erythrocyte glutathione defense system in smokers and non-smokers gastric carcinoma patients BT Jasim, AAM Al-Azzaay, SK Al-Khazraji Iraqi Journal of Cancer and Medical Genetics 4 (2), 30-36	2011
Oxidative Stress and Antioxidant Status in Human Infected With Kala-azar AAMAA BT Jasim Al-Mustansiriyah Journal for Pharmaceutical Sciences 6 (1), 116-122	2009

-Symposiums and conferences:

1. The 7th Scientific Conference of the Faculty of Pharmacy/University of Baghdad/Baghdad 2008.
2. The 5th Scientific Conference of Al-Mustansiriya College of Medicine/Baghdad 2010.
3. The 8th Scientific Conference of the Faculty of Pharmacy/University of Baghdad/Baghdad 2011.
4. The 6th Scientific Conference of Al-Mustansiriya College of Medicine/Baghdad 2011.
5. The 7th Scientific Conference of Al-Mustansiriya College of Medicine/Baghdad 2012.

6. The 1st Scientific Symposium of the Faculty of Pharmacy/University of Al-Mustansiriya/Branch of Drugs and therapeutics/Baghdad 2011.
7. The 1st Scientific Symposium of the Faculty of Pharmacy/University of Al-Mustansiriya/Branch of Medical Microbiology and Biotechnology/Baghdad 2011.
8. The 1st Scientific Symposium of the Faculty of Pharmacy/University of Al-Mustansiriya/Branch of Pharmaceutics/Baghdad 2011.
9. The 1st Scientific Symposium of the Iraqi Society of Clinical Biochemistry/Baghdad 2011.
10. The 1st Scientific Symposium of the Faculty of Pharmacy/University of Al-Mustansiriya/Branch of Pharmaceutical Chemistry and Pharmacognosy/Baghdad 2011.
11. The 1st Scientific Symposium of the Faculty of Pharmacy/University of Al-Mustansiriya/Branch of Medical Laboratory Sciences/Baghdad 2012.
12. The 2nd Scientific Symposium of the Faculty of Pharmacy/University of Al-Mustansiriya/Branch of Pharmaceutical Chemistry and Pharmacognosy/Baghdad 2012.
- 13-APTAMERS 2014 conference, 1st Oxford Symposium on Aptamers/ Oxford, UK/ 2014.
- 14- ELRIG Drug Discovery 2014 conference/ Manchester, UK/ 2014.
- 15- The 21st IFCC – EFLM European Congress of Clinical Chemistry and Laboratory Medicine/Paris, France/2015.
- 16- Lab Innovations 2015 NEC conference/ Birmingham, UK/ 2015.
- 17- ELRIG Drug Discovery conference 2015/ Telford, UK/ 2015.
- 18- Biochemistry 2016 Shaping the Molecules of Life conference/ Frankfurt, Germany/ 2016.
- 19- The Iraqi Medical association 41st scientific conference/ Baghdad-Iraq/ 2018.
- 20- The 5th Scientific Conference of the Faculty of Pharmacy/Al-Mustansiriya University /Baghdad 2022.
- 21- The 6th Scientific Conference of the Faculty of Pharmacy/Al-Mustansiriya University /Baghdad 2023.
- 22- The 7th Scientific Conference of the Faculty of Pharmacy/Al-Mustansiriya University /Baghdad 2024.

-Acknowledgments:

The donor	Number
Acknowledgment from the prime minister	2
Acknowledgment from the minister of higher education and scientific research	15
Acknowledgment from the president of Al-Mustansiriya university	20
Acknowledgment from the dean of the college of Pharmacy/University of Al-Mustansiriya	25
Acknowledgment from the Iraqi Cultural Attaché	1

Signature
Basma Talib Jasim Al-Sudani
11/9/2025