

CURRICULUM VITAE



HIGHLIGHTS

Qualification: B. Chemistry, M. Biochemistry, PhD. Biochemistry

Teaching experiences: 4 years

Industrial experiences: 9 years

Research Skills: Vaccine & Vaccination, Virology, Antiviral Drug Discovery, Immunology & Tumor Markers.

Teaching and Learning Skills: E-Learning, Didactic Teaching, PBL, Experiential Learning

Research Publications (32): Research (20), Book authored (2), Other chapters (2), Review (8)

Dr. Mohamed J. Saadh

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EDUCATIONAL QUALIFICATIONS			
Degree	Faculty	University	Year
PhD, Biochemistry	Faculty of Science	Cairo University, Egypt	2012-2015
MSc, Biochemistry	Faculty of Science	Mansoura University, Egypt	2008
BSc, Chemistry	Faculty of Science	Baghdad University, Iraq	2001

TEACHING AND LEARNING SKILLS

A. Teaching Methods

- Didactic Teaching, E-Learning, Problem Based Learning (PBL), Experiential Learning

B. Theoretical Subjects Taught

- **Undergraduate Students:** Biochemistry, Clinical Biochemistry, Biotechnology, Organic chemistry, Immunology and Microbiology.

WORK EXPERIENCES					
Name of the organization	Position	Date of joining	Date of relieving	Experiences (Years)	Role
Middle East University	Assistant Professor	9/2019	Until now	1	Full-time
Philadelphia University, Jordan (19392) – Jordan	Assistant Professor	21/03/2016	9/2018	3	Full-time Teaching
Jordan Bio-Industries Center (JOVAC) for veterinary vaccine production – Jordan	Manager for bacterial vaccine and viral vaccine production, quality control	1/01/2005	01/03/2012	9	Full-time
Arab Company for Medical Diagnostic (ARCOMEX)	Manager for routine lab kit production, quality control	1/03/2009	1/09/2012	3	Full-time

CURRICULUM VITAE

COMPUTATIONAL SKILLS

- A. Statistical Analysis using SPSS
- B. GraphPad Prism
- C. International Computer Driving License (ICDL).
- D. Microsoft office

RESEARCH AREAS OF INTEREST

- A. Vaccine & Vaccination
- B. Virology
- C. Antiviral Drug Discovery
- D. Tumor Markers
- E. Clinical Biochemistry

My strengths and research area of interest

During my 9 and 3 years of industrial working experiences at the department of production, quality control, research and development of **Jordan Bio Industries Center (JOVAC) for veterinary vaccine production** and **Arab Company for Medical Diagnostics (ARCOMEX), Jordan**, I studied immunology for the equivalent of 9 academic hours, and also I gained experience and strengthened my expertise in the following research areas:

1. Cell culture, adjuvant development, production and quality control testing of viral and bacterial vaccines:

A. Adjuvant development:

- i. **Aluminum hydroxide** and different **mineral oil** formula used to enhance the efficacy of a vaccine.

B. Viral vaccines:

- i. Sheep pox and goat pox vaccines using primary **cultures of lamb testis (LT) or lamb kidney (LK) cells**.
- ii. Peste des petits ruminants (PPR) vaccine using **vero cells** (contentious cell line culture).
- iii. Infectious bursal disease virus (Gumboro) vaccine using primary cultures of **chicken embryo fibroblasts (CEF)**.
- iv. Adenovirus vaccine using **primary chicken embryo liver cells culture**.
- v. Newcastle disease virus vaccine, infectious bronchitis disease virus vaccine and other vaccines using **specific-pathogen-free (SPF) eggs**.

C. Bacterial vaccines:

- i. Whole-organism vaccine (attenuated and killed vaccines).
- ii. Toxoid vaccine.

D. Quality control tests of vaccines:

- i. Median tissue culture infectious dose (TCID₅₀) test
- ii. Median embryo infectious dose (EID₅₀) test
- iii. Median lethal dose (LD₅₀) test
- iv. Sterility test, safety test and potency test

2. Immunology techniques

- i. Sodium dodecyl sulphate-polyacrylamide gel electrophoresis (SDS-PAGE)
- ii. Immunoblotting technique (Western Blot)
- iii. Purification of antigens
- iv. Production of polyclonal antibodies
- v. Enzyme-Linked Immunosorbent assay (ELISA)

CURRICULUM VITAE

3. Production of clinical chemistry lab kits:

Glucose kit, urea kit, creatinine kit etc.

LABORATORY SKILLS

- A. Tissue culture
- B. Vaccine production
- C. Sodium dodecyl sulphate-polyacrylamide gel electrophoresis (**SDS-PAGE**)
- D. Immunoblotting technique (Western Blot)
- E. Purification antigens
- F. Production of polyclonal antibodies
- G. Enzyme-Linked Immunosorbent assay (ELISA)
- H. Dot ELISA
- I. Routine clinical laboratory tests
- J. Hemagglutination assay (HA)
- K. Indirect Hemagglutination Assay (IHA)
- L. Polymerase Chain Reaction (PCR)

PUBLICATIONS (32): Research papers = 20, Review articles = 8, Book =2, Book Chapters = 2

Research Papers: 22

1. **MJ Saadh**. Diagnostic performance of 27-kDa Fasciola gigantica circulating antigen against fascioliasis in cattle. *Veterinary world*. **2021**. (**accepted**)
2. **Mohamed J. Saadh**. Effect of silver nanoparticles on the antibacterial activity of Levofloxacin against methicillin-resistant staphylococcus aureus. *European Review for Medical and Pharmacological Sciences*. **2021**. (**accepted**)
3. **Mohamed J. Saadh, et al**. Silver nanoparticles with epigallocatechingallate and zinc sulphate significantly inhibits avian influenza A virus H9N2. *Microbial Pathogenesis*, 158: **2021**.
4. **MJ. SAADH**. Epigallocatechin gallate (EGCG) combined with zinc sulfate inhibits Peste des petits ruminants virus entry and replication. **2021**. *Saudi Journal of Biological Sciences*. **2021**.
5. **M.J. SAADH et al.**, Punicalagin and zinc (II) ions Inhibit the Activity of SARS-CoV-2 3CL-Protease In Vitro. Punicalagin and zinc (II) ions Inhibit the Activity of SARS-CoV-2 3CL-Protease In Vitro. *European Review for Medical and Pharmacological Sciences*. **2021**.
6. RamadanAl-Shdefat, MohammadHailat, Abeer M.Kharshid, **Mohamed J.Saadh**, Mohammed F.Hamed, Md. KhalidAnwer, HebaAbdel-Halim, Wael AbuDayyih. Evidence of human metabolites of omeprazole and its structure elucidation by using HPLC-MS. *Journal of Molecular Structure*. **2021**, 1230: 129902
7. **M.J. SAADH**, S.M. ALDALAEN. Inhibitory effects of epigallocatechin gallate (EGCG) combined with zinc sulfate and silver nanoparticles on avian influenza A virus subtype H5N1. *European Review for Medical and Pharmacological Sciences*. **2021**; 25: 2630-2636
8. Mohd Alaraj, Tolgahan Acar, Irena Kosinska, Bahaa Al-Trad, Ammar M. Almaaytah, **Mohamed J. Saadh**. Pretreatment with *Salvadora persica* L. (Miswak) aqueous extract alleviates paracetamol-induced hepatotoxicity, nephrotoxicity, and hematological toxicity in male mice. *Vet World*. **2021**. 14(3): 589–594.
9. Mohammad F. Bayan , Hala M. Sbaih, **Mohamed J. Saadh**. Pharmaceutical Mini-Tablets Overview. *Indian Journal of Forensic Medicine & Toxicology*. **2021**. Vol. 15, No. 1
10. Issam Sa'adeh, **Mohamed Jamal Saadh**. Multifocal glioblastoma multiform with "encephalitis-like presentation" : a case report. *Egyptian Journal of Radiology and Nuclear Medicine*. 2021. 52:33.
11. MOHAMMAD F. BAYAN, **MOHAMED J. SAADH**. A Survey on the Potential Awareness for the Delivery of Insulin Using Transdermal Microneedle Array in Jordan. *International Journal of Pharmaceutical Research*.**2020**. 1: 2358-2366.
12. Jesny B Sabri, Imad I Al-Sultan, Khalil Altaif, Sherly Peter, **Mohammed J Saadh**. Pathogenesis of salmonella enterica serovar albanly in experimental infected spf balb/c mice. *Iraqi Journal of Veterinary Sciences*. **2020**. 34 (2), 339-344.
13. **Mohamed Jamal Saadh**. Hypoglycemic and hypolipidemic activity of combined milk thistle and fenugreek seeds in alloxan-induced diabetic albino rats. *Veterinary World*. **2020**. 13(8): 1517-1523.
14. Abeer Kharshid,**Mohamed J Saadh**. Knowledge, Attitudes, and Perceptions of Healthcare Professionals

CURRICULUM VITAE

towards Early Referral and Using Statins in Non-dialysis CKD Patients. Systematic Reviews in Pharmacy. **2020**. 11(7): 475-481.

15. Abeer Kharshid,**Mohamed J Saadh**. Health-Related Quality Of Life in Chronic Kidney Disease Patients: A Cross-Sectional Study. Systematic Reviews in Pharmacy. **2020**. 11(7). 188-192.
16. **Mohamed J Saadh** et al. Production, immunogenicity, stability, and safety of a vaccine against Clostridium perfringens beta toxins. Veterinary World. **2020**. 13(8): 1517.
17. Khalil Altaif , Nahla Aqel , Ghazi Al Jabal , **Mohamed J Saadh**. Population Prevalence of Asthma in Aljiza District. Indian Journal of Forensic Medicine & Toxicology. **2020**. 14(2). 2500-2504.
18. Mohd Alaraj, ...**Mohamed Jamal Saadh**. Differential expression of glycogen synthase kinase 3 α and 3 β isomers in brain cortex of mice following high doses of glucose. IJRPS. **2020**. 11(1): 993-999.
19. Qutaiba Aga, Yazan A Bataineh, **Mohammad J Saadeh**, Perinatal depression. Prevalence, suicidal idea, and associated factors. Journal of Pharmaceutical Sciences and Research. **2020**. 12(1): 112-118.
20. **Mohamed J. Saadh** and Ibrahim W. Hasani. Isolation and molecular identification of Mycoplasma gallisepticum from chicken flocks. Journal of Chemical and Pharmaceutical Research. **2016**. 8(2): 721-725.
21. Abdulfatah M. Attallah, Mohamed El-Far, Sana O. Abdallah, Ahmed M. El-Waseef, Mohamed M. Omran, Mohamed A. Abdelrazek, **Mohamed J. Saadh**, Mohamed Radwan, Hasanine Abol-Enein. Combined use of epithelial membrane antigen and nuclear matrix protein 52 as sensitive biomarkers for detection of bladder cancer. The International Journal of Biological Markers. **2015**. 11 (4): 30
22. Abdelfattah M. Attallah, Mohamed A. El-Far, Sanaa O. Abdallah, Ahmed M. El-Waseef, Mohamed M. Omran, **Mohamed J. Saadh**, Mohamed A. Abdelrazek, Ahmed A. Attallah, Mohamed Radwan, Kholoud A. El-waffaey, H.Abol-Enein. Diagnostic Performance of Nuclear Matrix Protein (NMP-52) in Bladder Cancer. Global Journal of Biotechnology & Biochemistry. **2015**. 10 (1): 32-38.

Review Articles: 08

1. **Mohamed J. Saadh**, et al. SARS-COV2 virus and Coronavirus disease (COVID-19). Int.J.Res.Pharm.Sci.,2020,11(SPL)(1),977-982
2. **Mohamed J. Saadh**, et al. A Guide for Estimating the Maximum Safe Starting Dose and Conversion it between Animals and Humans. Systematic Reviews in Pharmacy. 2020. 11(8): 98-101
3. **Mohamed J. Saadh**, et al. Urinary Tumor Markers for Detection and Surveillance in Non-Muscle Invasive Bladder Cancer. Indian Journal of Forensic Medicine & Toxicology. 2020. 14(2). 1315-1320.
4. **Mohamed J. Saadh**, et al. Vaccines: Purified Macromolecules as Vaccines and DNA Vaccines. Indian Journal of Public Health Research & Development. 2019. 10(11): 2424-2428
5. **Mohamed J. Saadh**, et al. RNA INTERFERENCE: APPLICATIONS AND CONFRONTATIONS. IJBPAS. 2019, 8(10): 1824-1839.
6. **Mohamed J. Saadh**, Hala Sbaih, Duaa Al-Sayyed. Nanomedicine in Drug Delivery Applications in Different Preclinical and Clinical Stages. Acta Scientific Pharmaceutical Sciences. **2019**. (3).
7. **Mohamed J. Saadh**, Hala Sbaih,. Pharmacogenomics: A Golden Science between Diagnosis and Prophylaxis. Acta Scientific Pharmaceutical Sciences. **2018**. 2 (11).
8. **Mohamed J. Saadh**., et al. Whole-Organism Vaccine (Attenuated and Killed Vaccines). Journal of Chemical and Pharmaceutical Research. **2017**. 9(10).

Book and Chapters: 04

1. **Mohamed J. Saadh** and Hala M. Sbaih. Mind maps in Biochemistry. 1st edition. Xlibris. **2019**.
2. **Mohamed J. Saadh** and Hala M. Sbaih. Mind maps in clinical chemistry. 1st edition. Xlibris. **2018**. ISBN: Softcover 978-1-5434-9166-1; EBook 978-1-5434-9167-8.
3. Sara Nidal Abed, Pran Kishore Deb, Hiba Salim Surchi, Sarah Falah Kokaz, **Mohammad J. Saadh**, Shantanu Bandyopadhyay, Rakesh K. Tekade. Nanocarriers in Different Preclinical and Clinical Stages. In: Rakesh K. Tekade (Ed.). Basic Fundamentals of Drug Delivery. Academic Press (Elsevier) **2018**, 685-731.
4. Pran Kishore Deb, Raghuprasad Mailabaram, Bilal Al-Jaidi, **Mohamed J. Saadh**. Molecular Basis of Binding Interactions of NSAIDs and Computer Aided Drug Design Approaches in the Pursuit of the Development of Selective Cyclooxygenase-2 (COX-2) Inhibitors. "Nonsteroidal Anti-inflammatory Drugs", ISBN 978-953-51-5380-1, InTech, **2017**, 101-121.

RESEARCH PROJECTS AND GRANTS

SN	Project Titles	Funding Agencies & Amount	Role	Current Status & Duration
A. Laboratory Research Projects				

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- | | | | | |
|----|---|--|------------------------|-----------|
| 1. | The study of immunogenicity, stability and safety of Vaccine Against Clostridium perfringens Alpha Toxins | Biotechnology Research Centre, 5000 \$ | Principal Investigator | Completed |
|----|---|--|------------------------|-----------|

ACADEMIC MANAGEMENT AND ADMINISTRATION

- Coordinator of Quality Assurance Committee
- Member of Laboratory Committee
- Member of Academic Guidance (for students) Committee
- Member of Safety Committee

INNOVATIONS IN TEACHING & LEARNING ACTIVITIES

Undergraduate Programme

A. Lectures

- **Gamification of classroom (Mobile Learning):** To enhance the student's engagement during didactic lecture, I practice gamification of classroom by using E-Learning software tools like **Kahoot**. Gamification of classroom significantly enhances the participation and understanding of introvert and weak students during the didactic lectures.

B. Students Feedback on My Teaching and Learning Activities

I received average student's evaluation feedback of **92%**.

PERSONAL DETAILS

Name : Mohamed Jamal Saadh
Place and Date of birth : Saudi Arabia 1979
Sex : Male
Nationality (Religion) : Jordanian
Marital status : Married with 3 sons
Language Proficiency : Arabic, English
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DECLARATION

I hereby declare that the above information and particulars are true and correct to the best of my knowledge and belief.

Mohamed J. Saadh

REFERENCES:

CURRICULUM VITAE

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