

Abdullah F. AlAsmari

Curriculum Vitae

Biography

Dr. Abdullah AlAsmari graduated from King Saud University (KSU) with a bachelor of Sciences in Pharmaceutical Sciences in 2011 with second class of honor. After that, he joined the Saudi Food and Drug Authority (SFDA) in 2011 as a senior pharmacist in the executive directorate of pharmacovigilance and crisis management. During his work in the SFDA, Dr. AlAsmari was a member and a coordinator of different committees and attended many conferences and workshops locally and globally. After that, Dr. AlAsmari joined as a teaching assistant. In 2013, Dr. AlAsmari joined Auburn University (AU), Harrison School of Pharmacy (HSOP) to pursue his PhD. During his graduate studies, Dr. AlAsmari focused on investigating novel molecular signaling mechanisms that can protect the heart from damage against IR injury. During his studies at AU, he was chosen by the graduate school of Auburn University to be a judge in the research judging committee. Also, he was awarded the second place of best scientific poster presentation at Auburn University Research Week symposium during his first year at Auburn University. Furthermore, he received a travel award from the graduate school of Auburn University. In 2017, Dr. AlAsmari was awarded a Doctor of Philosophy degree (PhD) in Pharmaceutical Sciences from Auburn University and became an assistant professor in the department of Pharmacology & Toxicology at KSU. Currently, Dr. AlAsmari is an Associate Professor and the Vice Dean of Graduate School for Programs and Initiatives and a member and chairman of different standing committee inside and outside KSU. Also, Dr. AlAsmari was chosen by the Secretary General of the Saudi Commission for Health Specialties (SCFHS) to be a member in different committees related to the Saudi Pharmacist Licensure Examination (SPLE). Dr. AlAsmari is working on different funded projects, which aim to induce cardioprotection against different mechanisms that can induce cardiac damage. Since 2017, Dr. AlAsmari has authored and co-authored over 100 peer-reviewed articles and book chapters, and supervised and co-supervised number of graduate students. In addition, he is a reviewer and guest editor for many reputable journals and a member of different scientific societies. His research area includes:

- Cardiovascular Diseases (Ischemic Heart Diseases).
- Ischemia Reperfusion (IR) Injury.
- Myocardial Bioenergetics.
- Molecular signaling mechanisms in diabetic and hyperglycemic models.
- Mitochondrial proteins and its role during IR injury.
- Hypoxia Inducible Factor-1 (HIF-1a).
- Purinergic Signaling.
- Mechanisms of cardiotoxicity induced by different anti-cancer drugs.

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Education

- 2013–2017 **Doctor of Philosophy (Ph.D.)**, *Auburn University*, Auburn, AL, USA, .
2005–2011 **Bachelor of Pharmaceutical Sciences**, *King Saud University*, Riyadh, with *Second Class Honor*, GPA – 4.31/5.

Doctorate Dissertation

Title *Myocardial Ischemia/Reperfusion Injury and Cardioprotection: Novel Roles of Frataxin and Uridine Triphosphate.*

Supervisor Professor Jianzhong Shen

Academic and Professional Appointments

- 2023–Present **Vice Dean for Programs and Initiatives Affairs**, DEANSHIP OF GRADUATE STUDIES, KING SAUD UNIVERSITY, Riyadh, SA.
2021–Present **Associate Professor**, DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY, COLLEGE OF PHARMACY, KING SAUD UNIVERSITY, Riyadh, SA.
2019–2023 **Department Head**, DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY, COLLEGE OF PHARMACY, KING SAUD UNIVERSITY, Riyadh, SA.
2017–2021 **Assistant Professor**, DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY, COLLEGE OF PHARMACY, KING SAUD UNIVERSITY, Riyadh, SA.
2017–2018 **Adjunct Professor**, COLLEGE OF PHARMACY AND ALLIED MEDICAL SCIENCES, RIYADH ELM UNIVERSITY, Riyadh, SA.
2013–2017 **Graduate Student and Research Assistant**, DEPARTMENT OF DRUG DISCOVERY & DEVELOPMENT, HARRISON SCHOOL OF PHARMACY (HSOP), AUBURN UNIVERSITY, Auburn, AL, USA.
2012–2017 **Teaching Assistant**, DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY, COLLEGE OF PHARMACY, KING SAUD UNIVERSITY, Riyadh, SA.
2011–2012 **Senior Pharmacist**, SAUDI FOOD AND DRUG AUTHORITY (SFDA), EXECUTIVE DIRECTORATE OF PHARMACOVIGILANCE AND CRISIS MANAGEMENT, Riyadh, SA.

Committee Memberships

- 2023–Present **Chairman of The Standing Committee for Graduate Programs**, King Saud University (KSU)
2023–Present **The Academic Standing Committee for Executive Master**, King Saud University (KSU)
2023–Present **The Standing Committee for the Joint Graduate Programs**, King Saud University (KSU)
2023–Present **The Dual Degrees Committee at the Deanship of Graduate Studies**, King Saud University (KSU)
2022–Present **The Standing Committee of the External Joint Supervision Program**, King Saud University (KSU)

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- 2022–Present **Scientific Advisory committee**, Saudi Food and Drug Authority (SFDA)
- 2022–Present **Clinical Assessment of Healthcare Practitioners committee**, Saudi Commission for Health Specialties (SCFHS)
- 2022–Present **Biomedical Sciences sub-committee for the Saudi Pharmacist Licensure Examination committee (SPLE)**, Saudi Commission for Health Specialties (SCFHS)
- 2019–2022 **Pharmaceutical Sciences sub-committee for the Saudi Pharmacist Licensure Examination committee (SPLE)**, Saudi Commission for Health Specialties (SCFHS)
- 2019–Present **College of Pharmacy Council**, King Saud University
- 2018–2022 **Research Ethics on Living Creatures Committee (IACUC)**, at King Saud University
- 2017–Present **Department of Pharmacology & Toxicology Committee**, at King Saud University
- 2017–Present **Committee for Appointment of Faculty members, Assistants and Lecturers and Faculty Promotion in Department of Pharmacology**, at King Saud University
- 2017–2021 **Committee for Study Plans, Programs and Curriculum in the Department of Pharmacology and Toxicology for the Bachelor's and Postgraduate Studies**, at King Saud University
- 2017–Present **Admission Committee in the Department of Pharmacology and Toxicology**, at King Saud University
- 2017–Present **Annual Report Committee in the Department of Pharmacology and Toxicology**, at King Saud University
- 2017–Present **Attracting Outstanding Faculty and Researchers Committee in the Department of Pharmacology and Toxicology**, at King Saud University
- 2017–Present **Scientific Research Committee in the Department of Pharmacology and Toxicology**, at King Saud University
- 2017–2019 **Development and Quality Committee in college of pharmacy**, at King Saud University
- 2017–2018 **Examination Committee**, at King Saud University
- 2011–2012 **The Adverse Drug Reaction Reports Committee for the Southern Region Hospitals**, at SFDA
- 2011–2012 **Pharmacovigilance and Crisis Management Committee**, at SFDA

Awards

- 2016 Recipient of the travel award from the graduate school of Auburn University to participate in (Global Summit on Heart Diseases and Therapeutics) conference in Chicago, IL, USA
- 2016 Chosen by the graduate school of Auburn University to be a judge in the research judging committee for (This is Research: Student Symposium), Auburn University Research Week, Auburn, AL, USA

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- 2015 Certificate from The American Physiological Society for selecting the paper entitled "Cardioprotective HIF-1a-frataxin signaling against ischemia reperfusion injury" for APSselect as one of the best published papers in The American Physiological Society journals for October 2015
- 2014 Induction to the Gamma beta Phi National Honor Society Chapter at Auburn University, Auburn, AL, USA
- 2014 Recipient of the award (second place) of Auburn University Research Week symposium for the research titled (Regulation of Frataxin by HIF-1a in the Ischemic Diabetic Heart), Auburn, AL, USA

Conferences, Workshops and Training Courses

- 2021 Project Management Professional (PMP), Riyadh, SA
- 2021 Molecular and Biomedical Techniques workshop: King Saud University Medical City Summer School, Riyadh, SA
- 2021 Saudi International Pharmaceutical Sciences Meeting and Workshops (SIPHA), Riyadh, SA
- 2021 10th College of Pharmacy Virtual Research Day (COPRD), Riyadh, SA
- 2021 Research and innovation in the field of pharmaceutical industries (the role of partnership between Saudi universities and the private sector in developing and localizing pharmaceutical industries through research and innovation), Riyadh, SA
- 2020 Saudi International Pharmaceutical Sciences Meeting and Workshops (SIPHA), Riyadh, SA
- 2018 Rodent Micro-surgical Training Course, Almere, Netherlands
- 2018 Developing Teaching Portfolio, King Saud University, Riyadh, SA
- 2018 Work Stress Management, King Saud University, Riyadh, SA
- 2018 Impeding Technology in Teaching, King Saud University, Riyadh, SA
- 2018 Supporting Students Learning program, King Saud University, Riyadh, SA
- 2017 Assessment of Learning Outcomes program, King Saud University, Riyadh, SA
- 2017 Micro-Teaching Program, King Saud University, Riyadh, SA
- 2017 Course Design and Construction program, King Saud University, Riyadh, SA
- 2017 Effective College Teaching program, King Saud University, Riyadh, SA
- 2017 This is Research: Student Symposium, Auburn University Research Week, Auburn, AL, USA
- 2016 Global Summit on Heart Diseases and Therapeutics, Chicago, IL, USA
- 2016 NHLBI/NIDDK Mitochondrial Biology Symposium: Novel Roles of Mitochondria in Health and Disease, National Institute of Health (NIH), Bethesda, MD, USA
- 2016 This is Research: Student Symposium, Auburn University Research Week, Auburn, AL, USA
- 2016 Ninth Annual Research Day at Auburn University sponsored by the Boshell Diabetes and Metabolic Diseases Research Program, Auburn, AL, USA
- 2015 This is Research: Student Symposium, Auburn, AL, USA

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- 2015 Harrison School of Pharmacy (HSOP) Research Symposium and Appreciation Day, Auburn, AL, USA
- 2015 Eighth Annual Research Day at Auburn University Sponsored by the Boshell Diabetes and Metabolic Diseases Research Program, Auburn, AL, USA
- 2014 Comprehensive Cardiovascular Center Third Annual Symposium Focus on Cardiovascular Repair and Regeneration, Birmingham, AL, USA
- 2014 Auburn University Research Week, Auburn, AL, USA
- 2014 Harrison School of Pharmacy (HSOP) Research Symposium and Appreciation Day, Auburn, AL, USA
- 2014 Seventh Annual Research Day at Auburn University Sponsored by the Boshell Diabetes and Metabolic Diseases Research Program, Auburn, AL, USA
- 2012 First Saudi International Regulatory and Registration Workshop, Riyadh, SA
- 2012 First Scientific Meeting on Medication Safety, Riyadh, SA
- 2012 Basic Pharmacoepidemiology and Drug Safety Course, Riyadh, SA
- 2011 Modern Methods in Epidemiology and Biostatistics, Rome, Italy
- 2011 Third Annual Safety Awareness Day: United in Safety, Riyadh, SA
- 2011 Pharmacovigilance in Saudi Arabia: Roles and Requirements, Riyadh, SA
- 2010 First Aid Course (BLS) at college of Pharmacy in King Saud University in cooperation with Saudi Red Crescent, Riyadh, SA

Internships

- 2010 Internship training program at Billasmar General Hospital, Billasmar, Abha, SA
- 2009 Internship training program at Tabuk Pharmaceutical Manufacturing Company, Riyadh, SA
- 2009 Internship Training Program at Health House Pharmacy, Riyadh, SA

Research Grants

- 2023 Research grant from King Saud University (KSU), Deanship of Scientific Research, Directed Research Groups Program, Riyadh, SA
- 2023 Research grant from Saudi National Institute of Health (NIH), Graduate Students Funds, Riyadh, SA
- 2021 Research grant from King Saud University, Researchers Supporting Project, Riyadh, SA
- 2020 Research grant from King Saud University, Deanship of Scientific Research, Research Groups Program, Riyadh, SA
- 2017 Research grant from King Saud University, Deanship of Scientific Research, Raed Funding Program, Riyadh, SA
- 2017 Research grant from Prince Naif Bin Abdulaziz Health Research Center (PNHRC), College of Medicine, King Saud University, Riyadh, SA

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Professional Experience and Skills

- Generating knock-out and transgenic mouse models using Cre-LoxP technique.
- Generating and constructing knock-down and overexpressing cell lines using shRNA and lentiviral gateway systems, respectively.
- Maintenance and genotyping of normal and transgenic rodents and administration of chemicals through intra-peritoneal injection, dissection and isolation of specific organs, Tissue sectioning and processing.
- Measuring the blood pressure in different rodent models using tail cuff device.
- Substantial expertise in investigating and detecting different molecular and signaling mechanisms regarding the cardio-protection against diabetes, ischemia-reperfusion injury and anti-cancer agents.
- Developing novel late type 2 diabetic model.
- Extensive experience in developing and conducting viral transfection in-vitro.
- Extensive experience in culturing H9C2, HEK-293, HEK-293T, HUVEC, Human cardiomyocytes and neonatal rat cardiomyocytes.
- Measuring the gene expression using QPCR technique.
- Measuring the protein expression using western blot technique.
- Conducting ChIP and luciferase assay.
- Experience in conducting different biochemical assays, such as TBARS, GSH, SOD, ATP, MTT, mitochondrial complex I and complex IV, mitochondrial ROS, mitochondrial iron levels, mitochondrial membrane potential and cellular respiration.
- Using the light and fluorescent microscope to stain cells and mitochondria.
- Measuring the intracellular calcium mobilization (signaling).
- Experience in isolating DNA and RNA and gel electrophoresis.
- Working experience on Microsoft office and different softwares, such as Image processing software (Image J, Adobe Photoshop), Analysis software (GraphPad Prism), Writing scientific manuscripts and projects (EndNote), Quartzy (Online tools for placing orders and managing lab inventory), Primer3Plus (to design and order primers) and Target Scan software (to search for different microRNA and the putative targets).

Teaching Experience

Year	Symbol	Course	Degree
2022–Present	PHL-610	Omics in Pharmacology & Toxicology	PhD
2022–Present	PHRM-314	Pathophysiology, Drug Action, & Therapeutics-I	PharmD
2022–Present	PHRM-225	Principles of Drug Actions and Metabolism	PharmD
2021–Present	PHL-512	Advanced Pharmacology-I	Master
2018–Present	PHL-315	Pharmacology-I	Bachelor
2018–Present	PHL-542	Clinical & Pharmacological Screening	Master
2017–Present	PHCL-495	Graduation Project	Bachelor
2017–Present	PHL-513	Advanced Pharmacology-II	Master
2017–Present	PHL-532	Biochemical Toxicology	Master

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2017–2019	PHL-616	Drug Discovery and Development	PhD
2017–2019	PHL-624	Laboratory training courses	PhD
2017–2019	PHL-521	Clinical Pharmacology and Therapeutics	Master
2017–2019	PHCL-211	Pharm-D Hospital Training Course	Bachelor
2017–2019	PHL-418	Pharmacology-III	Bachelor
2017–2019	PHL-491	Dental Pharmacology-II	Bachelor
2017–2018	PHRM-326	Pharmacology and Therapeutics	Bachelor
2017–2018	PHRM-516	Toxicology	Bachelor
2017–2018	PHRM-526	Geriatrics Drug Therapy	Bachelor
2017–2018	PHL-533	Toxicology Of Drug Of Abuse	Master

Student Advising & Mentoring

Year	Student	Role	Institution	Degree
2022–Present	AlAbed AlHazmi	Mentor	King Saud University	Bachelor
2022–Present	Mohammed AlShehri	Mentor	King Saud University	Master
2022–Present	Mohammed Adel	Co-Mentor	King Saud University	Master
2021–Present	Mohammed AlAsmari	Co-Mentor	King Saud University	PhD
2021–Present	Ziyad Alzahrani	Mentor	King Saud University	Bachelor
2021–Present	Abdullah Alabdulrahim	Mentor	King Saud University	Bachelor
2020–2022	Adel AlGhamdi	Mentor	King Saud University	Master
2019–2022	Hassan Hakami	Mentor	King Saud University	Bachelor
2019–2022	Meshal AlYousef	Mentor	King Saud University	Bachelor
2018–2023	Abdullah AlDhfyhan	Co-Advisor	King Saud University	PhD
2020–2021	Meshari AlAmer	Mentor	King Saud University	Bachelor
2019–2020	Mouath Abdulrahman	Mentor	King Saud University	Bachelor
2019–2020	Khaled AlEssa	Mentor	King Saud University	Bachelor
2018–2019	Faisal AlHofayan	Mentor	King Saud University	Bachelor
2018–2019	Adham Behayan	Mentor	King Saud University	Bachelor
2017–2019	Khaled AlZahrani	Co-Advisor	King Saud University	Master
2017–2019	Basil AlOtaibi	Mentor	King Saud University	Bachelor
2017–2018	Ahmed Badawood	Mentor	King Saud University	Bachelor
2017–2018	Talal Alshaya	Mentor	King Saud University	Bachelor
2017–2018	Abdulmjeed Alshahrani	Mentor	King Saud University	Bachelor
2017–2018	Fahad AlShammari	Mentor	King Saud University	Bachelor
2017–2018	Abdulmajeed Alasmari	Mentor	King Saud University	Bachelor
2017–2018	Ali Assiri	Mentor	King Saud University	Bachelor
2017–2018	Sultan AlMutairi	Mentor	King Saud University	Bachelor

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1. Akbar MU, Khattak S, Khan MI, Saddozai UAK, Ali N, ***AlAsmari AF***, Zaheer M, Badar M. A pH-responsive bi-MIL-88B MOF coated with folic acid-conjugated chitosan as a promising nanocarrier for targeted drug delivery of 5-Fluorouracil. *Front Pharmacol.* 2023 Sep 6;14:1265440. doi: 10.3389/fphar.2023.1265440. eCollection 2023.
2. Shabbir MA, Naveed M, Rehman SU, Ain NU, Aziz T, Alharbi M, Alsahammari A, ***AlAsmari AF***. Synthesis of Iron Oxide Nanoparticles from Madhuca indica Plant Extract and Assessment of Their Cytotoxic, Antioxidant, Anti-Inflammatory, and Anti-Diabetic Properties via Different Nanoinformatics Approaches. *ACS Omega.* 2023 Sep 7;8(37):33358-33366. doi: 10.1021/acsomega.3c02744. eCollection 2023 Sep 19.
3. Hussain L, Rana S, Abbas G, Alshammari A, ***AlAsmari AF***, Alharbi M, Zahid MT, Irfan M. Pharmacological Potential of Hippophae rhamnoides L. Nano-Emulsion for Management of Polycystic Ovarian Syndrome in Animals' Model: In Vitro and In Vivo Studies. *ACS Omega.* 2023 Aug 28;8(36):32977-32989. doi: 10.1021/acsomega.3c04720. eCollection 2023 Sep 12.
4. Khan A, Liaqat A, Masood A, Ali SS, Ali L, Alshammari A, ***AlAsmari AF***, Mohammad A, Waheed Y, Wei DQ. Exploring the medicinal potential of Dark Chemical Matters (DCM) to design promising inhibitors for PLpro of SARS-CoV-2 using molecular screening and simulation approaches. *Saudi Pharm J.* 2023 Oct;31(10):101775. doi: 10.1016/j.jsps.2023.101775. Epub 2023 Aug 30.
5. Naveed M, Mehmood S, Aziz T, Hammad Arif M, Ali U, Nouroz F, Zacharis C, Alharbi M, Alshammari A, ***AlAsmari AF***. An mRNA-based reverse-vaccinology strategy to stimulate the immune response against Nipah virus in humans using fusion glycoproteins. *Acta Biochim Pol.* 2023 Sep 17;70(3):623-631. doi: 10.18388/abp.2020-6721.
6. Ahmad S, Nazarian S, Alizadeh A, Pashapour Hajjalilou M, Tahmasebian S, Alharbi M, ***AlAsmari AF***, Shojaeian A, Ghatrehsamani M, Irfan M, Pazoki-Toroudi H, Sanami S. Computational design of a multi-epitope vaccine candidate against Langya henipavirus using surface proteins. *J Biomol Struct Dyn.* 2023 Sep 15:1-18. doi: 10.1080/07391102.2023.2258403. Online ahead of print.
7. Naveed M, Mahmood S, Aziz T, Azeem A, Hussain I, Waseem M, Ali A, Alharbi M, Alshammari A, ***AlAsmari AF***. Designing a novel chimeric multi-epitope vaccine subunit against Staphylococcus aureus through artificial intelligence approach integrating pan-genome analysis, in vitro identification, and immunogenicity profiling. *J Biomol Struct Dyn.* 2023 Sep 11:1-16. doi: 10.1080/07391102.2023.2256881. Online ahead of print.
8. Akash S, Rahman MM, Goncalves Lima CM, Emran TB, Sultana S, Naz S, Aziz T, Alharbi M, Alshammari A, ***AlAsmari AF***. Design and development of new inhibitors against breast cancer, Monkeypox and Marburg virus by modification of natural Fisetin via in silico and SAR studies. *Acta Biochim Pol.* 2023 Sep 7;70(3):599-600. doi: 10.18388/abp.2020-6667.
9. Naveed M, Shabbir MA, Aziz T, Saleem A, Naveed R, Khan AA, Ul Haq T, Alharbi M, Alshammari A, ***AlAsmari AF***. In silico explorations of bacterial mercuric reductase as an ecofriendly bioremediator for noxious mercuric intoxications. *Acta Biochim Pol.* 2023 Sep 7;70(3):661-669. doi: 10.18388/abp.2020-6838.
10. Naveed M, Aqib Shabbir M, Aziz T, Hurraira HM, Fatima Zaidi S, Athar R, Chattha HA, Alharbi M, Alshammari A, ***AlAsmari AF***. CRISPR-Cas9 guided rna based model for the treatment of Amyotrophic Lateral Sclerosis: A progressive neurodegenerative disorder. *Acta Biochim Pol.* 2023 Sep 6;70(3):643-653. doi: 10.18388/abp.2020-6789.
11. Hussain N, Mumtaz M, Adil M, Ali Nadeem A, Sarwar A, Aziz T, Alharbi M, Alshammari A, ***AlAsmari AF***, Alharbi ME. Investigation of VEGF (rs 699947) polymorphism in the progression

- of Rheumatoid Arthritis (RA) and in-silico nanoparticle drug delivery of potential phytochemicals to cure RA. *Acta Biochim Pol.* 2023 Sep 5;70(3):591-598. doi: 10.18388/abp.2020-6654.
12. Shahab M, Aiman S, Alshammari A, ***AlAsmari AF***, Alharbi M, Khan A, Wei DQ, Zheng G. Immunoinformatics-based potential multi-peptide vaccine designing against Jamestown Canyon Virus (JCV) capable of eliciting cellular and humoral immune responses. *Int J Biol Macromol.* 2023 Sep 2;253(Pt 2):126678. doi: 10.1016/j.ijbiomac.2023.126678. Online ahead of print.
 13. Shahab M, Al-Madhagi H, Zheng G, Zeb A, ***AlAsmari AF***, Alharbi M, Alasmari F, Khan MQ, Khan M, Wadood A. Structure based virtual screening and molecular simulation study of FDA-approved drugs to inhibit human HDAC6 and VISTA as dual cancer immunotherapy. *Sci Rep.* 2023 Sep 2;13(1):14466. doi: 10.1038/s41598-023-41325-9.
 14. Ahmad S, Khan M, Alam A, Ajmal A, Wadood A, Khan A, ***AlAsmari AF***, Alharbi M, Alshammari A, Shakoor A. Novel flurbiprofen clubbed oxadiazole derivatives as potential urease inhibitors and their molecular docking study. *RSC Adv.* 2023 Aug 29;13(37):25717-25728. doi: 10.1039/d3ra03841f. eCollection 2023 Aug 29.
 15. Rahman AU, Ali A, Ahmad F, Ahmad S, Alharbi M, ***AlAsmari AF***, Fayyaz A, Rana QUA, Khan S, Hasan F, Badshah M, Shah AA. Unraveling the Radioprotective Mechanisms of UV-Resistant *Bacillus subtilis* ASM-1 Extracted Compounds through Molecular Docking. *Pharmaceuticals (Basel).* 2023 Aug 11;16(8):1139. doi: 10.3390/ph16081139.
 16. Alasmari F, Alasmari MS, Assiri MA, Alswayyed M, Rizwan Ahamad S, Alhumaydhi AI, Arif BI, Aljumayi SR, ***AlAsmari AF***, Ali N, Childers WE, Abou-Gharbia M, Sari Y. Liver Metabolomics and Inflammatory Profiles in Mouse Model of Fentanyl Overdose Treated with Beta-Lactams. *Metabolites.* 2023 Aug 21;13(8):965. doi: 10.3390/metabo13080965.
 17. Naveed M, Ali I, Aziz T, Ain N, Shabbir MA, Javed K, Alharbi M, Alshammari A, ***AlAsmari AF***, Alharbi SA, Alharbi MS. Halogens engineering-based design of agonists for boosting expression of frataxin protein in Friedreich's ataxia. *Eur Rev Med Pharmacol Sci.* 2023 Aug;27(15):6972-6984. doi: 10.26355/eurrev-202308-33269.
 18. Ahmad E, Jahangeer M, Mahmood Akhtar Z, Aziz T, Alharbi M, Alshammari A, ***AlAsmari AF***, Irfan Bukhari N. Characterization and gastroprotective effects of *Rosa brunonii* Lindl. fruit on gastric mucosal injury in experimental rats - A preliminary study. *Acta Biochim Pol.* 2023 Aug 18;70(3):633-641. doi: 10.18388/abp.2020-6772.
 19. Shuaib M, Singh AK, Gupta S, ***AlAsmari AF***, Alqahtani F, Kumar S. Designing of neoepitopes based vaccine against breast cancer using integrated immuno and bioinformatics approach. *J Biomol Struct Dyn.* 2023 Aug 16:1-14. doi: 10.1080/07391102.2023.2247081. Online ahead of print.
 20. Ibrahim M, Nabi HU, Muhammad N, Ikram M, Khan M, Ibrahim M, ***AlAsmari AF***, Alharbi M, Alshammari A. Synthesis, Antioxidant, Molecular Docking and DNA Interaction Studies of Metal-Based Imine Derivatives. *Molecules.* 2023 Aug 7;28(15):5926. doi: 10.3390/molecules28155926.
 21. Alasmari F, Alasmari MS, Muwainea HM, Alomar HA, ***AlAsmari AF***, Alsanea S, Alshamsan A, Rasool MF, Alqahtani F. TPhysiologically-based pharmacokinetic modeling for single and multiple dosing regimens of ceftriaxone in healthy and chronic kidney disease populations: a tool for model-informed precision dosing. *Front Pharmacol.* 2023 Jul 20;14:1200828. doi: 10.3389/fphar.2023.1200828. eCollection 2023.
 22. Naveed M, Ul Ain N, Aziz T, Shabbir MA, Saleem A, Zafar A, Ghulam N, Alharbi M, Alshammari A, ***AlAsmari AF***. Side chain inset of neurogenerative amino acids to metalloproteins: a therapeutic signature for huntingtin protein in Huntington's disease. *Eur Rev Med Pharmacol Sci.* 2023 Jul;27(14):6831-6842. doi: 10.26355/eurrev-202307-33154.

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